Remedial Investigation Work Plan

580-610 Gerard Avenue
Bronx, New York

March 9, 2021

Prepared for:

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Certification

I, Robert Kovacs, P.G., certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Remedial Investigation Work Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER-10.

Robert Kovacs, P.G.	March 9, 2021	
Qualified Environmental Professional	Date	Signature

1. Introduction

Roux Environmental Engineering and Geology, D.P.C. (Roux), on behalf of SB Gerard Avenue, LLC, (the Applicant), has prepared this Remedial Investigation Work Plan (RIWP) for the 580 Gerard Former Post Office Vehicle Repair Site located at 580-610 Gerard Avenue, Bronx, New York (Figure 1) (Site). The Site is located in Concourse Village and occupies the entirety of Tax Block 2353, Lot 1, in the Borough of Bronx, City and State of New York. The Site consists of a 0.72-acre rectangular-shaped parcel of land that is improved with a one single-story garage building with offices that has a footprint of approximately 31,200 square feet. The building has a small basement that contained a boiler, located along the Gerard Avenue side of the building. The building is currently unoccupied. The Site is planned to be investigated and properly remediated under the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP).

The planned redevelopment of the Site is not yet finalized; however, the proposed development consists of a new eight-story mixed-use building built-out to the entire property. The building will contain 192 residential units with 176,000 gross square feet and one commercial retail unit with 5,000 square feet.

1.1 Brownfield Cleanup Program Application and Environmental Work Plans

Due to the presence of contaminated soil, groundwater, and soil vapor at the Site, the Applicant plans to remediate the Site under the NYSDEC BCP. An application for the BCP was submitted concurrently with this RIWP, and BCP Site number C203142 has been assigned to the Site upon acceptance of the Brownfield Cleanup Agreement (BCA). SB Gerard Avenue, LLC is a Volunteer under the NYSDEC BCP. This RIWP was developed in accordance with the DER-10 Technical Guidance for Site Investigation and Remediation, dated May 2010 (DER-10).

The purpose of the Remedial Investigation (RI) is to determine the nature and extent of contamination at the Site, characterize environmental media, qualitatively assess the potential exposure of receptors to Site contaminants, and develop any other additional data necessary to support the development of a Remedial Action Work Plan (RAWP).

1.2 RIWP Document Organization

This RIWP contains a background section (Section 2) describing the Site, its history, and results of previous environmental investigations; a section defining the objectives and scope of the RI (Section 3); and Sections 4 and 5 that describe project operations plans (e.g., Quality Assurance/Quality Control, Health and Safety). Reporting requirements and the project schedule are discussed in Section 6. Figures are provided to illustrate site conditions and the locations of proposed sampling efforts.

1.3 Project Team and Contact Information

Roux's Principal-In-Charge for this Site will be Robert Kovacs, P.G., Principal Scientist, who will be responsible for the overall implementation of the project. Roux's Engineer of Record will be Brian Morrissey, P.E. Roux's Project Manager will be Jessica Lam, Project Geologist, who will be responsible for day-to-day management of the project, including preparation of work plans, scoping, and directing field activities. Rachel Henke will serve as the Quality Assurance Officer for this project. The Field Manager for the RI is

Patrick Kilkelly, who will be responsible for implementing and directing field activities onsite. All of the above are based in Roux's Islandia, New York headquarters office and can be reached at (631) 232-2600.

The name and contact information for the Applicant is:

Mr. Jay M. Jameson
SB Gerard Avenue LLC
40 West 57th Street, 29th Floor
New York, New York 10019

Drilling will be completed by Trinity Environmental Corporation, of Deer Park, New York. Laboratory analysis will be completed by TestAmerica Laboratories, Inc. (Eurofins) of Edison, New Jersey a NYSDOH Environmental Laboratory Accreditation Program (ELAP)-certified laboratory. Waste disposal and other subcontracted services have not been selected as of preparation of this RIWP. This information will be provided to the NYSDEC prior to the start of field activities.

2. Background

This section provides pertinent background information, including a description of the Site and its setting, the history of the Site, and the results of previous environmental work conducted at the Site.

2.1 Site Description and Setting

A Site location map is included as Figure 1.

Property Location	
Property Name:	580 Gerard Former Post Office Vehicle Repair Site
Property Address:	580-610 Gerard Avenue
Property Town, County, State:	Neighborhood of Concourse Village, Bronx, New York
Property Tax Identification:	Block 2353, Lot 1
Property Topographic Quadrangle:	USGS-Long Island, New York
Nearest Intersection:	Gerard Avenue, between E 151st Street and E 150th Street
Area Description:	The Site is located in a mixed use residential/commercial section in the Concourse Village neighborhood in Bronx, New York. Adjacent properties include a one-story warehouse and garage building to the north; a one-story warehouse and garage building to the south; residential apartment buildings to the east; and a two-story commercial building and parking lot to the south.

Property Information	
Property Acreage:	0.72 acres
Property Shape:	Rectangular
Property Use:	Commercial
Improvements:	Tax Block 2353, Lot 1 is currently improved with a one single-story garage building with offices. The building is currently vacant.

Information regarding elevation, regional groundwater flow directions, Federal United States Geological Society (USGS) well information, Federal Reporting Data System (FRDS) Public Water Supply system information, and state database well information was derived from a Toxics Targeting, Inc. Environmental Database Report that was included as part of the September 2018 Phase I Environmental Site Assessment (ESA) produced by GEI Consultants, Inc., P.C. (GEI) and previously completed investigations at the Site. The historic reports generated for the Site are included in Attachment A.

2.1.1 Property Operations

The Site consists of an approximately 31,200 square foot, one-story building. The building is currently vacant.

2.1.2 Utilities

Consolidated Edison (Con Ed) provides electricity, and National Grid provides natural gas to this area of Concourse Village, Bronx. The Site is connected to the municipal water and sewer systems.

2.1.3 Topography

Based on reports compiled by the U.S. Geological Survey Central Park Quadrangle map, the Site lies at an elevation of approximately 25-35 feet above the North American Vertical Datum of 1988 (an approximation of mean sea level). The Site has a southwestern slope.

2.1.4 Wetland Areas and Surface Water Bodies

The Harlem River is approximately 0.2 miles to the west of the Site.

2.1.5 Soil

Based on the previous investigations performed by GEI, the Site is immediately underlain by fine to medium-grained sand and silt. Bedrock was encountered at depths ranging from 19 to 25 feet below land surface (ft bls) during the September 2018 Phase II (ESA) performed by GEI, in which soil borings were advanced to a maximum of 25 ft bls.

2.1.6 Underlying Formation

During the completion of the previous investigation performed by GEI, bedrock was encountered at the Site. The Bronx is underlain by three bedrock formations: Inwood Marble, Fordham Gneiss, and Manhattan Schist. The rock of Inwood Marble is soluble and has been eroded through time to form lowlands and valleys, including the channel of the Harlem River. Further erosion of the marble, schist, and gneiss occurred later and bedrock fragments from areas were transported from the north and deposited in many areas of the Bronx. Meltwater streams occupied the valleys of Inwood Marble and produced outwash sand deposits. These permeable deposits and fractures present in limestone account for areas underlain by Inwood Marble to yield groundwater.

2.1.7 Groundwater

Based on groundwater elevation data collected from the two temporary wells installed onsite by GEI, groundwater was identified at a depths ranging from 20 ft bls to 24 ft bls. Groundwater is assumed to flow to the west-southwest direction, towards the Harlem River, located approximately 0.2 miles west of the Site (note, this will be confirmed during the proposed RI). Groundwater in the Bronx is not used as a source of potable water.

2.1.8 Neighboring Properties and Zoning

The Site is located in the Borough of Bronx. Adjacent properties include a one-story warehouse and garage building to the north; a one-story warehouse and garage building to the south; residential apartment buildings to the east; and a two-story commercial building and parking lot to the south. In summary, surrounding properties consist of residential buildings, retail businesses, and offices. There are industrial warehouse type buildings in the greater surrounding areas to the west and south of the Site. The Site is zoned with a C2-4 overlay in a R7A District.

2.2 Site History

Roux reviewed the following information sources to determine historic uses of the Site, which were contained in the GEI September 2018 Phase I ESA, included in Appendix A of this RIWP:

- Historic Aerial photographs dated between 2007 and 2014;
- Historical Sanborn fire insurance maps dated 1908, 1935, 1946, 1951, 1981, and 1996; and
- Property tax files and zoning records.

According to the sources listed above, the Site was first developed by 1950 as a vehicle maintenance and storage facility for the United States Postal Office. By 2001 through 2007, the building was utilized for automotive service, vehicle repair, and parking. After 2007, the Site was occupied by a construction company for office use and storage. The surrounding area was historically developed with residential, industrial, and commercial properties.

2.3 Environmental Conditions/Results of Previous Environmental Investigations

This section provides an overview of previous environmental-related activities completed at the Site, based on a review of readily available information and the following environmental reports (provided in Appendix A). The data tables generated by GEI are provided in Appendix B of this RIWP. All soil, groundwater, and soil vapor data are summarized graphically in Figures 3 through 5, respectively. The following environmental reports were available for review:

- Phase I ESA, prepared by EEA, Inc. (EEA) Sam Schwartz Engineering of New York, New York on behalf of EMMES Asset Management Company Ltd., LLC., dated January 2011;
- Phase I ESA, prepared by GEI on behalf of Hunton Andrews Kurth LLP, dated September 2018;
- Subsurface (Phase II) Investigation, prepared by GEI on behalf of Hunton Andrews Kurth LLP, dated September 2018; and
- Soil Testing/Waste Characterization Report, prepared by DPV Consultants (DPV), on behalf of Silverback, dated February 4, 2020.

The data from the previous environmental investigations is included for background information only. The RI scope developed as part of this RIWP is intended to be a comprehensive, standalone RI, and is not intended to rely on data generated as part of these previous investigations.

2.3.1 Underground Storage Tanks/NYSDEC Spill Incidents

The 2018 Phase I ESA prepared by GEI identified records of underground storage tanks (USTs) at the Site. The Site is listed in the NYSDEC Petroleum Bulk Storage (PBS) database under Facility Identification Numbers 2-333212 and 2-476021. Based on the information in the PBS database, nine 550-gallon gasoline USTs were installed in 1950 and closed and removed in 1993. One 5,000-gallon UST containing #2 fuel oil was installed in 1957 and replaced with a 2,500-gallon UST in 1993.

The Site is listed in the NY Spills database. The following spills were identified at the Site:

- NYSDEC spill number 9007668 was opened on October 13, 1990. The spill was caused by a tank test failure of a 5,000-gallon fuel oil tank. According to the NYSDEC comments, a 5,000-gallon fuel oil UST was removed and replaced with a 2,500-gallon UST in 1993. A subsurface investigation that was performed in 2000 showed no visual, olfactory, or PID Evidence of contamination/release. Soil

analysis was non-detect for VOCs and PAHs were consistent with fill material (i.e., coal/asphalt). Groundwater was not encountered before bedrock which was at a depth of approximately 12-feet below ground surface. This spill was closed on May 11, 2001.

- NYSDEC spill number 9213223 was opened on February 27, 1993. The spill is related to gasoline found during the excavation of gasoline tanks. This spill incident indicates that nine 550-gallon gasoline USTs were removed in 1993. In addition, 22 tons of contaminated soil had also been reportedly excavated and removed. Subsurface investigation indicated no visual or olfactory evidence of contamination. Soil analysis showed non-detect for VOCs and PAH levels were consistent with fill material. Groundwater analysis showed non-detect/trace PAHs and VOCs. The spill was closed on May 11, 2001.
- NYSDEC spill number 1205845 was opened on September 3, 2012. The spill occurred when it was reported that approximately two gallons of heating oil residual/staining was noted next to the fill port area on the east side of the building. The spill was closed on May 24, 2016.

The information from the 2011 Phase I by EEA for NYSDEC spill numbers 9007668 and 9213223 provided no back up documentation to support the conclusions in the statements above. Therefore, it is not known if residual contamination was left in place. A spill file FOIL has been submitted.

2.3.2 EEA Phase I ESA

In January 2011, a Phase I ESA was completed by EEA for the Site. The main objective of the Phase I ESA was to identify recognized environmental conditions (RECs) and other environmental concerns that may have affected the Site. EEA identified the following Recognized Environmental Conditions (RECs) at the Site - gasoline tanks, fuel oil tanks, hydraulic lifts and floor drains. There was no mention in this report that the hydraulic lifts had been removed. However, based on EEA's review of the Toxics Targeting Database Report, EEA concluded that nine gasoline tanks, which had been installed in 1950, were removed in 1993, and subsequent soil sampling showed no evidence of significant contamination. However, the Phase I also states:

- At least nine gasoline tank vent lines were observed running up the length of the wall on the eastern side of the building.
- According to information obtained during the site inspection, an underground 2,500-gallon fuel oil tank is currently located inside the subject building, where a man-way cover and other associated access ports were evident during EEA's site inspection. Allegedly, a 5,000-gallon fuel oil tank was also removed and replaced in 1993 with this present 2,500-gallon fuel oil tank.

EEA also noted that there were two spill numbers associated with this Site:

- Closed Spill Incident Number 9007668 – This spill pertains to a tank test failure of a 3,000-gallon fuel oil tank that occurred on October 13, 1990. There is a note in the spill file that "groundwater" was impacted. *See* Exhibit M including spill file record. EEA notes that according to the NYSDEC spill file comments, a 5,000-gallon fuel oil underground storage tanks was removed and replaced with a 2,500-gallon underground storage tank (UST) in 1993 and that a subsurface investigation that was performed in 2000, which showed no visual, olfactory, or PID Evidence of contamination/release. Soil analysis was non-detect for Volatile Organic Compounds (VOCs) and Poly Aromatic Hydrocarbon (PAHs) were consistent with obvious fill material (i.e., coal/asphalt). Groundwater was not encountered before bedrock which was at a depth of approximately 12-feet below ground surface. This spill incident was closed on May 11, 2001. [NOTE: However, the spill file noted that groundwater was impacted and there was no evidence in this Phase I that groundwater was remediated.]
- Closed Spill Incident Number 9213223 – This spill incident is related to gasoline found during the excavation of gasoline tanks that occurred on February 27, 1993. This spill incident indicates that nine 550-gallon gasoline USTs were removed in 1993. Concurrently, 22 tons of contaminated soil had also been reportedly excavated and removed. Allegedly, the subsurface investigation showed no visual or olfactory evidence of contamination. Soil analysis showed non-detect for VOCs and PAH

levels were consistent with obvious fill material. However, groundwater analysis showed non-detect/trace PAHs and VOCs. This spill incident was closed on May 11, 2001.

2.3.3 GEI Phase I ESA

In September 2018, a Phase I ESA was completed by GEI for the Site. The main objective of the Phase I ESA was to identify recognized environmental conditions (RECs) and other environmental concerns that may have affected the Site. The findings of the Phase I ESA, as noted by GEI, included the following onsite RECs:

- Historic Gasoline Storage Tanks – GEI's site visit of the subject property, a vacant former automotive garage and service/storage facility for U.S. Postal Service vehicles found evidence of an area within the building where underground gasoline storage tanks had been located. According to information obtained from the Toxics Targeting Database Report, the tanks had been removed in 1993 and that subsequent soil sampling showed no evidence of significant contamination. Relying on the information obtained from the Toxics Targeting Database Report, both EEA and GEI concluded that the nine tanks had been removed in 1993 and that subsequent soil sampling showed no evidence of significant contamination. [NOTE: However, no documentation was provided in either report to support this conclusion].
- Hydraulic Lift Units – Three large underground hydraulic lift units were observed within the subject building. One was on the north side of the building and the other two were on the eastern side of the building. No staining was observed near the hydraulic lifts.
- Fuel Oil Storage Tank – According to the Toxics Targeting Database Report, an underground 2,500-gallon fuel oil tank is currently buried on the project site. This tank is located inside the subject building. The man-way cover and other associated access ports were available for inspection and no staining was observed. Furthermore, reportedly, a 5,000-gallon fuel oil tank was removed and replaced in 1993 with the present 2,500-gallon fuel oil tank. In 2000, a subsurface investigation was performed, and subsequent soil sampling showed no evidence of significant contamination.
- E-Designation – As part of a zoning change or action, the NYC Department of City Planning and City Council has labeled the project site as part of an E-Designated area of New York City. An E-Designation is a NYC zoning map designation that indicates the presence of an environmental requirement pertaining to potential Hazardous Material Contamination, Window/Wall Noise Attenuation, or Air Quality impacts on a particular tax lot. These environmental requirements are administrated by the NYCOER.

2.3.4 GEI Subsurface (Phase II) Investigation

In September 2018, a Subsurface (Phase II) Investigation was completed by GEI to investigate the RECs identified in the Phase I ESA. The Phase II ESA scope of work included:

- A limited ground penetrating radar (GPR) survey;
- The advancement of eight (8) soil borings (SB-1 through SB-8) and collection of fifteen (15) soil samples from various depths;
- The advancement of two (2) soil probes [SB-2 (GW) and SB-5 (GW)] for the collection of grab groundwater samples; and
- The installation of temporary implants beneath the building floor slab for the collection of four (4) sub-slab soil vapor samples (SV-1 through SV-4).

2.3.4.1 GEI Limited Geophysical Survey

During the 2018 GEI Phase II Investigation, the limited geophysical survey did not identify any anomalies consistent with the presence of the 550-gallon gasoline USTs in the southwestern portion of the Site discussed in Section 2.3.1, above; however, the abandoned 2,500-gallon UST appears to still be present at the Site. There are also still nine vent pipes still in place therefore, remnants of the UST tank farm is still present.

2.3.4.2 GEI Phase II Soil Conditions

In 2018, GEI performed a Phase II ESA at the Site that included the advancement of 8 soil borings to the maximum depth of 25 ft bls using a Geoprobe® direct-push rig. During completion of soil borings, lithology was recorded, and the soil was screened in the field for the presence of volatile organic vapors using a photoionization detector (PID) and/or for any visual or olfactory evidence of contamination.

Two soil samples were collected from soil borings SB-1 to SB-2 and SB-4 to SB-8. Deep samples from soil borings SB-2, SB-4, and SB-5 were collected above the observed groundwater table. One shallow soil sample was collected from the top 2 feet in SB-3. Refusal was encountered in SB-1, SB-3, SB-7, and SB-8. The soil samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides and Target Analyte List (TAL) metals. Soil boring locations and exceedances are shown on Figure 3. The complete GEI Subsurface (Phase II) Investigation Report is provided in Appendix A, the data summary table from this report were extracted and provided in Appendix B.

VOCs: Concentrations of one VOC was detected in soil above Unrestricted Use Soil Cleanup Objectives (UUSCOs). Acetone was detected above UUSCOs in samples SB-4 (17-19'), SB-5 (10-12'), SB-6 (0-2'), SB-6 (10-12'), SB-7(10-12') at concentrations of ranging from 0.074 mg/kg to 0.17 mg/kg.

SVOCs: Analytical data for SVOCs indicated detections above the UUSCOs and above Restricted Residential Soil Cleanup Objectives (RRSCOs) for seven SVOCs.

SVOC Commercial Soil Cleanup Objectives (CSCO) exceedances are summarized below:

- Benzo(a)anthracene was detected at concentrations exceeding the CSCO (5.6 mg/kg) in 1 sample at a depth of 0-2 feet bls.
- Benzo(a)pyrene was detected at concentrations exceeding the CSCO (1 mg/kg) in 5 samples at four locations at depths ranging from 0-2 ft bls to 10-12 ft bls.
- Dibenzo(a,h)anthracene was detected at concentrations exceeding the CSCO (.56 mg/kg) in 1 sample at a depth of 0-2 feet bls.

SVOC RRSCO exceedances are summarized below:

- Benzo(a)anthracene was detected at concentrations exceeding the RRSCO (1 mg/kg) in four samples at four locations at depths ranging from 0-2 ft bls to 10-12 ft bls.
- Benzo(b)fluoranthene was detected at concentrations exceeding the RRSCO (1 mg/kg) in two samples at two locations at depths of 0-2 ft bls.
- Benzo(k)fluoranthene was detected at a concentration exceeding the RRSCO (3.9 mg/kg) in one sample at a depth of 0-2 ft bls.
- Chrysene was detected at a concentration exceeding the RRSCO (3.9 mg/kg) in one sample at a depth of 0-2 ft bls.
- Indeno(1,2,3-cd)pyrene was detected at concentrations exceeding the RRSCO (0.5 mg/kg) in five samples at four locations at depths ranging from 0-2 ft bls to 10-12 ft bls.

Metals: Metals were detected at concentrations above UUSCOs in fourteen of the samples. Metals were detected at concentrations in exceedance of RRSCOs in eight of the fifteen samples of the six soil borings. Exceedances of Commercial SCOs were detected in five of the fifteen samples of four soil borings. Analytical data for metals indicated detections above the RRSCOs for three metals.

Metal CSO exceedances are summarized below:

- Barium was detected at concentrations exceeding the CSCO (400 mg/kg) in five samples at depths ranging from 0-2, 10-12, and 21-23 ft bls.

Metal RRSCO exceedances are summarized below:

- Cadmium was detected at concentrations exceeding the RRSCO (2.5 mg/kg) in one sample at a depth of 17-19 ft bls.
- Mercury was detected at concentrations exceeding the RRSCO (0.81 mg/kg) in three shallow samples at depths of 0-2 ft bls.

Pesticides and Herbicides: Pesticides and herbicides were detected at concentrations above UUSCOs in SB-1 (0-2'), SB-2 (0-2'), SB-2 (21-23'), SB-6 (0-6'), SB-7 (0-2'), and SB-8 (0-2') including 4,4' – DDE and 4,4' – DDT. There were no detections above RRSCOs.

PCBs: PCBs were detected above UUSCOs in SB-7 (0-2') and SB-8 (0-2') and exceeded Commercial SCOs in SB-3 (0-2') and SB-4 (0-2').

Additional details about the soil investigation are available in the GEI Subsurface (Phase II) Investigation Report included in Appendix A.

2.3.4.3 GEI Phase II Groundwater Conditions

A total of two groundwater samples were collected from two temporary wells for laboratory analysis during the GEI Phase II ESA. These two wells were on the north side of the property far from either of the tank locations. Groundwater samples were analyzed for VOCs and SVOCs. This data was compared to the NYSDEC Part 703.5 Class GA Ambient Standards and Guidance Values (AWQSGVs). Monitoring well locations and exceedances of groundwater are shown in Figure 4. Data tables are attached to the GEI Subsurface (Phase II) Investigation Report within attached Appendix A.

VOCs: VOCs were each detected at concentrations above their respective AWQSGVs in two of the samples collected. Chloroform was detected two groundwater samples (SB-2 and SB-5) at concentrations of 10 µg/L and 16 µg/L, respectively, which exceeded its AWQSGV (7 µg/L). Seven compounds (including 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, Isopropylbenzene, n-Butylbenzene, n-Propylbenzene, p-Isopropyltoluene, and sec-Butylbenzene) were detected above the AWQSGVs in one groundwater sample (SB-2).

SVOCs: Naphthalene was detected above its AWQSGV in one groundwater sample (SB-2) at a concentration of 19.6 µg/L which is above its AWQSGV (10 µg/L).

Additional details about the groundwater investigation are available in the GEI Subsurface (Phase II) Investigation Report included in Appendix A.

2.3.4.4 GEI Phase II Soil Vapor Conditions

Four soil vapor probes SV-1 through SV-4 were installed to allow for the collection of soil vapor samples. The four samples were installed six inches below the existing concrete slab (sub-slab) inside the building at the Site.

Soil vapor results were compared to the compounds listed in Table 3.1 Air Guidance Values derived by the New York State Department of Health (NYSDOH) in the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion, dated October 2006 (Final Guidance) and revised May 2017. There are seven compounds

included in the NYSDOH Final Guidance; three of these compounds were detected in one or more soil vapor samples, including 1,1,1-Trichloroethane, Methylene Chloride, and Tetrachloroethene (PCE).

Of these three compounds, PCE was detected in SV-2 at a concentration of 460 micrograms per cubic meter (µg/m3) that would potentially require further action based on the NYSDOH Decision Matrix for the compounds. Additionally, the soil vapor samples showed elevated levels of petroleum-related VOCs. Total concentrations of petroleum-related VOCs (BTEX) ranged from 72.3 to 193 µg/m3. Total Xylenes were the highest detected BTEX compound with a maximum concentration of 101 µg/m3 in soil vapor sample SV-3. Soil vapor analytical detections are shown on Figure 5.

Additional details about the soil vapor investigation are available in the GEI Subsurface (Phase II) Investigation Report included in Appendix A.

2.3.5 DPV Soil Testing/Waste Characterization

A Soil Testing/Waste Characterization program for Site Development was performed at the Site in December 2019. Based on the letter report, the soil testing/waste characterization scope of work included the collection of (25) grab samples from (13) thirteen excavation pits at various depths ranging from 0 to 30' bls. The samples were analyzed for Target Analyte List (TAL), Target Compound List (TCL), and thirty non-targeted organic compounds (+ 30). Soil boring locations and exceedances are shown on Figure 3. The complete DPV Soil Testing/Waste Characterization Report is provided in Appendix A.

VOCs: Concentrations of one VOC was detected in soil above Unrestricted Use Soil Cleanup Objectives (UUSCOs). Acetone was detected above UUSCOs in samples SB-11 (10-11') and SB-12 (12-13') at concentrations of ranging from 0.06 mg/kg to 0.086 mg/kg.

SVOCs: Analytical data for SVOCs indicated detections above Restricted Residential Soil Cleanup Objectives (RRSCOs) and Commercial Soil Cleanup Objectives (CSCOs), which are all polycyclic aromatic hydrocarbons (PAHs) and are commonly associated with historic fill.

SVOC CSO exceedances are summarized below:

- Benzo(a)anthracene was detected at concentrations exceeding the CSCO (5.6 mg/kg) in 1 sample at a depth of 12-13 feet bls.
- Benzo(a)pyrene was detected at concentrations exceeding the CSCO (1 mg/kg) in 3 samples at three locations at depths ranging from 9-10 ft bls to 15-16 ft bls.
- Benzo(b)fluoranthene was detected at concentrations exceeding the CSCO (5.6 mg/kg) in 1 sample at a depth of 12-13 feet bls.
- Dibenzo(a,h)anthracene was detected at concentrations exceeding the CSCO (.56 mg/kg) in 1 sample at a depth of 12-13 feet bls.
- Indeno(1,2,3-cd)pyrene was detected at concentrations exceeding the CSCO (5.6 mg/kg) in 1 sample at a depth of 12-13 feet bls.

SVOC RRSCOs exceedances are summarized below:

- Benzo(a)anthracene was detected at concentrations exceeding the RRSCO (1 mg/kg) in 2 samples at three locations at depths ranging from 9-10 ft bls to 15-16 ft bls.
- Benzo(b)fluoranthene was detected at concentrations exceeding the RRSCO (1 mg/kg) in two samples at two locations at depths ranging from 9-10 ft bls to 15-16 ft bls.

- Benzo(k)fluoranthene was detected at a concentration exceeding the RRSCO (3.9 mg/kg) in one sample at a depth of 12-13 ft bls.
- Chrysene was detected at a concentration exceeding the RRSCO (3.9 mg/kg) in one sample at a depth of 12-13 ft bls.
- Dibenzo(a,h)anthracene was detected at a concentration exceeding the RRSCO (3.3 mg/kg) in two samples at two locations at depths ranging from 9-10 ft bls to 15-16 ft bls.
- Indeno(1,2,3-cd)pyrene was detected at concentrations exceeding the RRSCO (0.5 mg/kg) in three samples at three locations at depths ranging from 3-4 ft bls to 15-16 ft bls.

Metals: Metals were detected at concentrations above UUSCOs in twelve of the samples. Metals were detected at concentrations in exceedance of RRSCOs in five samples from four soil borings. Exceedances of Commercial SCOs were detected in three samples from three soil borings. Analytical data for metals indicated detections above the RRSCOs for three metals.

Metal CSO exceedances are summarized below:

- Copper was detected at concentrations exceeding the CSO (270 mg/kg) in three samples at three locations at depths of 3-4 ft bls, 9-10 ft bls, and 10-11 ft bls.

Metal RRSCO exceedances are summarized below:

- Lead was detected at concentrations exceeding the RRSCO (400 mg/kg) in three samples at two locations at depths of 3-4 ft bls to 14-15 ft bls.
- Mercury was detected at concentrations exceeding the RRSCO (0.81 mg/kg) in two samples at two locations at depths of 3-4 ft bls to 12-13' ft bls.

Pesticides and Herbicides: Pesticides and herbicides were detected at concentrations above UUSCOs in SB-10 (4-5') and SB-12 (14-15') including 4,4' – DDD, 4,4' – DDE and 4,4' – DDT. There were no detections above RRSCOs.

PCBs: No PCBs were detected above UUSCOs.

Additional details about the soil investigation are available in the DPV Report included in Appendix A.

3. RI Work Plan Objectives, Scope, and Rationale

Roux, on behalf of the Applicant, has developed a RI scope of work (presented in this RIWP) that is intended to satisfy NYSDEC BCP requirements. Data collected during the RI will determine the basis for remedial actions for the Site.

Standards, Criteria, and Guidance (SCGs) for soil at BCP sites are the numerical soil cleanup objectives (SCOs) presented in 6 NYCRR Part 375 (Part 375). The SCOs are categorized into unrestricted use criteria and restricted use (residential, restricted-residential, commercial, or industrial) criteria, as well as criteria for protection of groundwater (PGW) and ecological resources. The applicability of each category of SCOs is determined based upon the current and reasonably anticipated future use of the Site, as well as cleanup tracks being evaluated. The anticipated redevelopment will likely include a mixed-use residential and commercial building; the applicable standards for contemplation of a Track 2 or Track 4 restricted use remedy are the RRSCOs and PGW SCOs for those contaminants detected in groundwater. If a Track 1 remedy is contemplated the applicable standards are the UUSCOs.

Although the groundwater beneath the Site is not used as a drinking water source, based upon the evaluation of the current groundwater data discussed in the RIWP, the NYSDEC AWQSGVs – TOGS 1.1.1 will be considered. Note, however, it is likely that groundwater is not present above bedrock in portions of the Site.

New York State Department of Health's (NYSDOH's) Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006 (NYSDOH Guidance), Revised May 2017, employs three Matrices to determine whether monitoring or mitigation of soil vapor levels are warranted, based on concentrations present in sub-slab and indoor air samples. Potential soil vapor impacts identified in accordance with the NYSDOH Guidance will be considered.

3.1 Objectives

The following areas of concern (AOCs) were identified in historic documents within the Site limits:

- Soil and groundwater contamination due to the presence of Site-wide urban fill (if identified);
- Soil, groundwater and soil vapor contamination from former Site uses;
- Hydraulic lifts identified in the Site reconnaissance from the Phase I ESA; and
- Potential UST(s) as identified in the Historic Sanborn Maps and PBS Database. The Site is listed in the NYSDEC PBS database under Facility Identification Numbers (Facility ID) 2-333212 and 2-476021.

Facility ID 2-333212 is listed as unregulated/closed and associated with nine USTs that were closed and removed in March 1993. The USTs had capacities of 550-gallons and contained gasoline. Facility ID 2-476021 is listed as active and is associated with the nine USTs listed under Facility ID 2-333212; one UST that was closed and removed in February 1993; and one UST that is listed in service. The closed UST had capacity of 5,000-gallon and contained #2 fuel oil. The UST that is listed in service has a capacity of 2,500-gallons and contains #2 fuel oil.

Based on the existing data for the Site and known data gaps, the following objectives have been identified for the RIWP:

- Further delineate the nature and extent of potential impacts to soil from areas of concern (AOCs) described above;
- Further delineate the nature and extent of impacts to groundwater;
- Evaluate the soil vapor quality within the Site and potential for offsite migration; and
- Fill data gaps from prior investigations (e.g., obtain more data across the Site).

Environmental data collected during the RI will be used to evaluate soil, groundwater, and soil vapor impacts onsite and at the property boundaries to provide the basis for remedial action selection and to determine the potential for offsite impacts. This data will also be used to qualitatively assess the potential exposure of receptors to Site contaminants and develop the information necessary to support the development of a RAWP.

3.2 RI Scope

The scope of the RI will include the collection of sufficient Site investigation data so that, together with the historical data, the entire Site will be sufficiently characterized to support the development of the Site-wide RAWP.

To accomplish this, the scope of work for the RI will include the following:

- The performance of Site reconnaissance to confirm proposed sampling locations;
- The advancement of soil borings, collection of soil samples, installation of permanent groundwater monitoring wells, collection of groundwater samples from new monitoring wells, installation of soil vapor points, and sampling of new soil vapor points;
- The collection of soil, groundwater, and soil vapor sufficient to define the nature and extent of impacted media and current Site conditions and offsite groundwater and/or soil vapor migration potential;
- The collection of a synoptic round of groundwater level measurements and the collection of additional land survey data as needed for developing a groundwater elevation contour map; and
- The performance of a qualitative human health exposure assessment (QHHEA) to identify existing and potential exposure pathways and evaluate contaminant fate and transport.

All investigation activity will be conducted in accordance with the applicable requirements of the NYSDEC DER-10.

Soil samples collected from the soil investigation described in detail below will be analyzed for the full Part 375/Target Compound List (TCL) plus 30 highest concentration tentatively identified compounds (TICs) (10 VOCs and 20 SVOCs), TAL metals, TCL pesticides, TCL PCBs, and emerging contaminants (ECs) 1,4-Dioxane and Per – and Polyfluoroalkyl Substances (PFAS), which include the 21 compounds listed in the NYSDEC February 2019 Groundwater Sampling for Emerging Contaminants Guidance (NYSDEC February 2019 Guidance). Soil samples will also be collected for geologic logging in accordance with the Unified Soils Classification System (USCS) and for visual inspection (for evidence of contamination including staining and/or odors).

To delineate and characterize groundwater quality beneath the Site, groundwater samples from the groundwater investigation described in detail below will also be analyzed for the full Part 375/TCL+30 TICs, TAL metals, TCL pesticides, TCL PCBs, and ECs.

All soil vapor air samples will be analyzed using United States Environmental Protection Agency (USEPA) Method TO-15 for VOCs.

All data will be produced in accordance with NYSDEC Analytical Services Protocol (ASP) Category B deliverables and will be reviewed and validated by Data Validation Services, Inc. (DVS), an independent data validator. Data Validation Services will prepare a Data Usability Summary Report (DUSR) before data is incorporated into the RI Report (RIR) for the Site. All data will be submitted to NYSDEC in electronic format, in accordance with DER-10, Section 1.15.

The overall scope of each component of the RI is discussed in the following subsections. Detailed field sampling procedures are provided in the Quality Assurance Project Plan/Field Sampling Plan (QAPP/FSP; Appendix C of this RIWP). The proposed sampling locations are shown on Figure 6 of this RIWP and additional information, including intervals to be sampled and sample rationale, is provided in Tables 1a, 1b, and 1c of this RIWP.

3.2.1 Site Reconnaissance

Roux has performed Site reconnaissance and has identified potential AOCs, described in Section 3.1., which will be targeted during the RI. An inspection of the existing Site conditions will be conducted to determine final locations of soil borings and monitoring wells based on actual field conditions.

3.2.2 Soil Investigation

To further characterize the soil conditions at the Site and fill existing data gaps, fourteen soil borings will be installed at the locations shown in Figure 6 and indicated below. Boreholes will be pre-cleared to five ft bls using non-intrusive methods, such as hand tools and/or vacuum excavation, prior to advancement of soil borings to verify the absence of utilities and/or other subsurface features (i.e., obstructions and/or utilities). Should a utility or other feature be observed during pre-clearance activities, the sampling location will be relocated to no more than ten feet away from the original proposed sample location. If a boring is proposed to be moved more than ten feet from the location shown on Figure 6, the NYSDEC project manager will be consulted prior to installing the boring at the new location. Soil samples will be collected by hand or by utilizing the Geoprobe® direct-push rig. Soil samples will be collected continuously from land surface to the terminal depth of the boring, as shown below and in Table 1a. During installation of the soil borings, the lithology will be recorded, and soil will be inspected for evidence (visual or olfactory) of contamination and field screened continuously for VOCs using a PID with a 10.6 eV lamp.

Soil borings will be advanced to characterize soil in the following locations at the Site:

Locations	Sample Depth Intervals	Analyses (see notes below)	Rationale
RXSB-02, RXSB-04, RXSB-05, RXSB-07, RXSB-08, RXSB-10, RXSB-11, RXSB-13	0-16 ft bls: 0-2, 4-6, 10-12, 14-16, and most impacted two-foot interval (if applicable) unless bedrock or groundwater encountered.	*Part 375/TCL + 30/TAL	Evaluate conditions beneath the Site building.
RXSB-01, RXSB-03, RXSB-06, RXSB-09, RXSB-12, RXSB-14	0-16 ft bls: 0-2, 4-6, 10-12, 14-16, and most impacted two-foot interval (if applicable) unless bedrock or groundwater is encountered.	*Part 375/TCL + 30/TAL	Evaluate conditions beneath the Site building. Co-located with the monitoring well sampling points MW-1 to MW-6.
RXSB-01, RXSB-02, RXRB-03, RXSB-04, RXSB-05, RXSB-06, RXSB-07, RXSB-08, RXSB-09, RXSB-10, RXSB-11, RXSB-12, RXSB-13, RXSB-14	0-16 ft bls: 0-2, 4-6, 10-12, 14-16, and most impacted two-foot interval (if applicable) unless bedrock or groundwater encountered.	**ECs	Evaluate **EC conditions across the Site.

* Note: Part 375/TCL plus 30/ TAL (TCL + 30/TAL) includes:

- Part 375/TCL VOCs + 10 TICs;
- Part 375/TCL Base Neutral Acids (BNA)/ SVOCs + 20 TICs;
- Part 375/TCL Pesticides;
- Part 375/TCL Herbicides;
- Part 375/TCL PCBs;
- Part 375/TAL Metals (including hexavalent chromium); and
- Total Cyanide.

**Note: Emerging Contaminants (ECs) list includes 1,4-Dioxane and the 21 Per- and Polyfluoroalkyl Substances (PFAS) which include the 21 compounds listed in the NYSDEC July 2018 Groundwater Sampling for Emerging Contaminants Guidance (NYSDEC July 2018 Guidance) and the March 2019 Sampling for 1,4-Dioxane and PFAS Under DEC's Part 375 Remedial Programs (NYSDEC March 2019 Guidance). PFAS in soil and groundwater will be analyzed by USEPA Method 537 Modified and 1,4-Dioxane in groundwater will be analyzed by USEPA Method 8270D SIM and 1,4-Dioxane in soil will be analyzed by USEPA Method 8270D. The 21 PFAS are:

- Perfluorobutanesulfonic acid
- Perfluorohexanesulfonic acid
- Perfluoroheptanesulfonic acid
- Perfluorooctancessulfonic acid
- Perfluorodecanesulfonic acid
- Perfluorobutanoics acid
- Perfluoropentanoic acid
- Perfluorohexanoic acid
- Perfluoroheptanoic acid

- Perfluorooctanoic acid
- Perfluorononanoic acid
- Perfluorodecanoic acid
- Perfluoroundecanoic acid
- Perfluorododecanoic acid
- Perfluorotridecanoic acid
- Perfluorotetradecanoic acid
- 6:2 Fluorotelomer sulfonate
- 8:2 Fluorotelomer sulfonate
- Perfluroroctanesulfonamide
- N-methyl perfluorooctanesulfonamidoacetic acid
- N-ethyl perfluorooctanesulfonamidoacetic acid

Following sample collection, boreholes that are not converted to monitoring wells will be backfilled with clean soil cuttings or #2 Morie sand with an upper bentonite plug and restored with like materials to surrounding grade. Visibly contaminated soil cuttings will be placed into sealed and labeled Department of Transportation (DOT) approved 55-gallon drums, pending characterization and offsite disposal at a permitted facility.

3.2.3 Groundwater Investigation

To further evaluate groundwater quality conditions, six permanent groundwater monitoring wells (MW 1 through MW-6) will be installed at soil boring locations as discussed in Section 3.2.2. The proposed groundwater monitoring well locations are shown on Figure 6. The locations of monitoring wells were chosen to extend general Site coverage based on the locations of previous groundwater sample locations. Boreholes will be pre-cleared to five ft bls using non-intrusive methods such as hand tools and/or vacuum excavation prior to advancement of soil borings, to verify the absence of utilities and/or other subsurface features (i.e., obstructions and/or utilities). Should a utility or other feature be observed during pre-clearance activities, the well location will be relocated to no more than ten feet away from the original proposed sample location. If a well is proposed to be moved more than ten feet from the location shown on Figure 6, the NYSDEC project manager will be consulted prior to installing the boring at the new location. Permanent monitoring wells will be constructed to bridge the water table. The wells will be installed to a depth of 30 ft bls with approximately five feet of screen below the water table which is expected to be at 25 ft bls unless refusal at shallow bedrock is encountered. Additional monitoring well design details are provided in the QAPP/FSP.

Following installation of the permanent wells, the depth to groundwater in each monitoring well will be measured using an electronic water level meter and a groundwater contour map will be developed using the survey data. All onsite wells will then be sampled consistent with USEPA low-flow sampling requirements using a peristaltic pump and one round of groundwater samples will be collected in accordance with the QAPP/FSP and analyzed for:

- TCL + 30/TAL/Part 375 (including filtered and unfiltered metals [including hexavalent chromium], SVOCs, PCBs and pesticides) and ECs.

Field parameters (e.g., pH, dissolved oxygen, oxidation-reduction potential [ORP], etc.) will also be collected using a water quality meter during purging and prior to sampling.

3.2.4 Soil Vapor/Sub-Slab Vapor Investigation

Seven soil vapor samples and three sub-slab vapor samples will be collected during the RI to evaluate soil vapor conditions at the Site. RSS-1, RSS-2, and RSS-3 will be sub-slab vapor samples collected from the eastern property boundary closest to the residences along Walton Avenue.

The sub-slab vapor samples RSS-1, RSS-2, and RSS-3 will be collected from points installed immediately below the concrete slab using a hammer drill and sealed at the surface of the concrete slab.

The soil vapor samples RSV-1, RSV-2, RSV-3, RSV-4, RSV-5, RSV-6, and RSV-7 will be collected from the target depth of 16 feet bls using a Geoprobe® direct-push rig. For the soil vapor points installed to 16 feet bls, new Teflon®-lined tubing will be attached to an expendable soil vapor sampling point with a 6-inch stainless steel screen. The soil vapor points will be backfilled with #2 Morie sand to approximately one foot above the screen. The remainder of the borehole will be backfilled with a concrete/bentonite slurry to grade.

The sub-slab vapor and soil vapor samples will be collected using pre-cleaned (batch certified) 6-liter summa canisters with regulators calibrated to collect samples over an 8-hour period and analyzed using USEPA Method TO-15 for VOCs. A helium tracer gas test will be performed on each vapor point prior to sampling in accordance with the procedures outlined in the NYSDOH Guidance. The proposed sub-slab vapor and soil vapor sampling locations are shown on Figure 6. Additional details regarding sub-slab vapor and soil vapor sampling methods are provided in the QAPP/FSP (Appendix C).

3.2.5 Qualitative Human Health Exposure Assessment

A QHHEA will be performed following the collection of all RI data. The EA will be performed in accordance with Section 3.3(c)4 of DER-10 and the NYSDOH guidance for performing a qualitative EA (DER-10; Appendix 3B). The results of the QHHEA will be provided in the RIR.

According to Section 3.10 of DER-10, and the Fish and Wildlife Resources Impact Analysis Decision Key in DER-10 Appendix 3C, a Fish and Wildlife exposure assessment will be performed (if needed) based on the results of the RI.

4. Quality Assurance/ Quality Control (QA/QC) Protocols

The goal of the QA/QC aspect of the RI is to ensure that suitable and verifiable data results from sampling and analysis are performed. To accomplish this, a QAPP/FSP has been prepared and is provided as Appendix C.

5. Health and Safety

A site-specific Health and Safety Plan (HASP) has been prepared for the Site and is provided in Appendix D. A site-specific Community Air Monitoring Plan (CAMP) has been prepared for the Site and is provided as Appendix D within the HASP document.

6. Reporting and Schedule

The following will be provided to the NYSDEC during the course of the RI work.

Daily Progress Reports

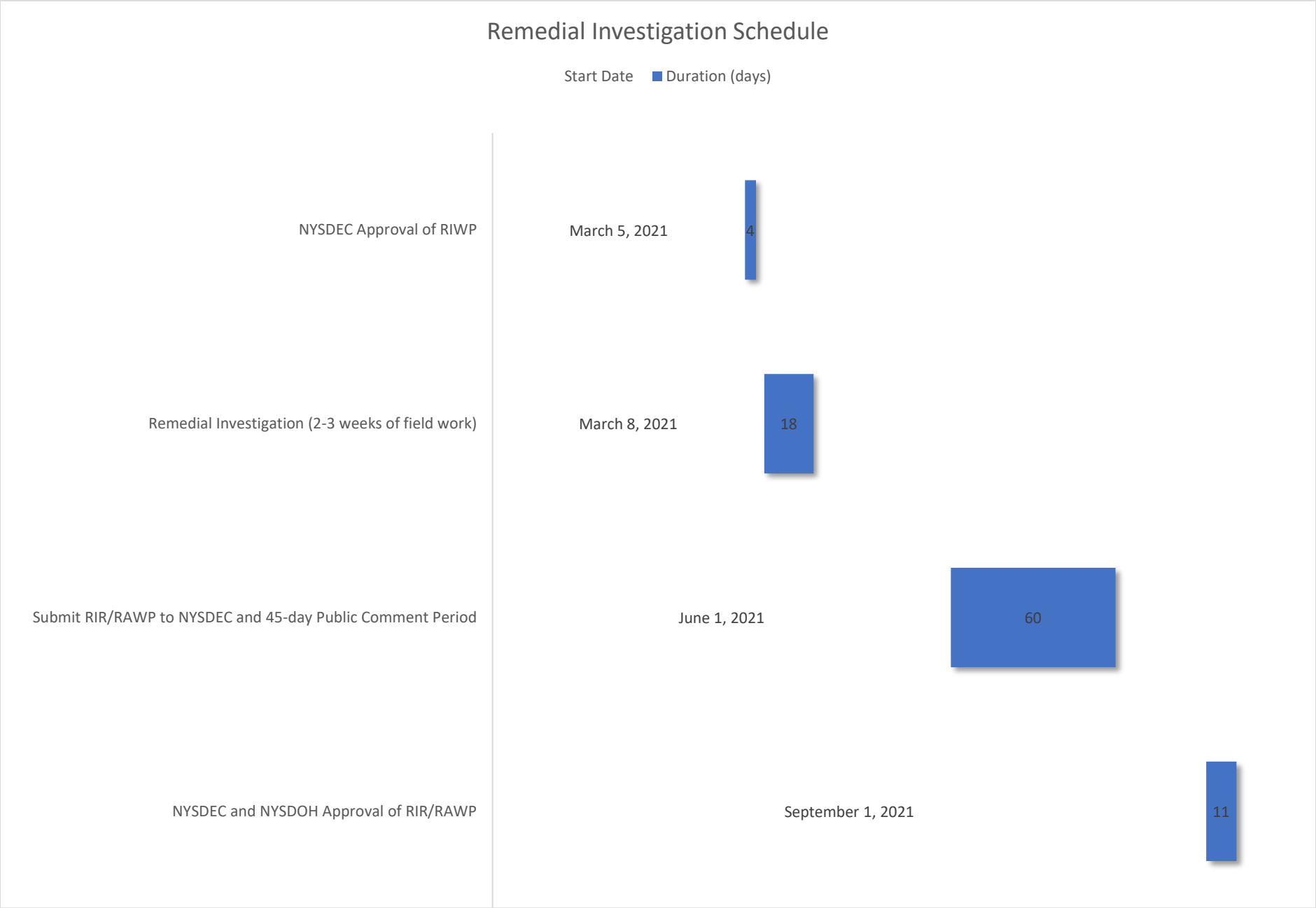
Daily progress report submittals to be provided to the NYSDEC during RI field activities and will include the following.

- Discovery of any previously unknown contaminated media during RI activities will be promptly communicated to NYSDEC's project manager.
- A Site map will be provided to identify locations discussed in progress reports provided to NYSDEC.

Remedial Investigation Report/Remedial Action Work Plan

Following the completion of the RI, a RIR will be prepared to summarize the results and findings of the RI. The RIR will likely be combined with the RAWP into a single RIR/RAWP due to project time constraints.

The RIR/RAWP will include all data developed during the RI and will meet the technical requirements of DER-10.


Remedial Investigation Schedule
Start Date
Duration (days)
NYSDEC Approval of RIWP
March 5, 2021
4
Remedial Investigation (2-3 weeks of field work)
March 8, 2021
18
Submit RIR/RAWP to NYSDEC and 45-day Public Comment Period
June 1, 2021
60
NYSDEC and NYSDOH Approval of RIR/RAWP
September 1, 2021
11

TABLES

1. a. Proposed Soil Sampling Locations
   b. Proposed Groundwater Sampling Locations
   c. Proposed Soil Vapor Sampling Locations

Table 1a. Proposed Soil Sampling Locations

Location	Matrix	Sample Intervals	Sample Parameters	Sampling Method**	Rationale
RXSB-02, RXSB-04, RXSB-05, RXSB-07, RXSB-08, RXSB-10, RXSB-11, RXSB-13	Soil	0-16 ft bls:0-2, 4-6, 10-12, 14-16, and most impacted two-foot interval (if applicable) unless bedrock or groundwater encountered.	TCL + 30/TAL	SW-846 8260B;SW-846 8270C;SW-846 8081A; SW-846 8151A;SW-846 8082;SW-846 6010/7471; SW-846 7196A; SW-846 9012B	To evaluate conditions beneath the Site building
RXSB-01, RXSB-03, RXSB-06, RXSB-09, RXSB-12, RXSB-14	Soil	0-16 ft bls:0-2, 4-6, 10-12, 14-16, and most impacted two-foot interval (if applicable) unless bedrock or groundwater is encountered.	TCL + 30/TAL	SW-846 8260B;SW-846 8270C;SW-846 8081A; SW-846 8151A;SW-846 8082;SW-846 6010/7471; SW-846 7196A; SW-846 9012B	Evaluate conditions beneath the Site building. Co-located with the monitoring well sampling points MW-1 to MW-6.
RXSB-01, RXSB-02, RXRB-03, RXSB-04, RXSB-05, RXSB-06, RXSB-07, RXSB-08, RXSB-09, RXSB-10, RXSB-11, RXSB-12, RXSB-13, RXSB-14	Soil	0-16 ft bls:0-2, 4-6, 10-12, 14-16, and most impacted two-foot interval (if applicable) unless bedrock or groundwater is encountered.	1,4-Dioxane, PFAS	Method 537 Modified; SW-846 8270D	To evaluate soil quality for emerging contaminants.

Sample Interval depths are in feet below land surface; Additional intervals may be added based on field observations
**Laboratory will report to their minimum possible standards for each method (QAPP Table 2)
TCL + 30/TAL - includes TCL VOCs + 10 TICs, TCL BNA (SVOCs) + 20 TICs, TCL Pest/Herb/PCBs, TAL Metals
AOC - Area of Concern
TCL - USEPA Contract Laboratory Program Target Compound List
BNA - Base Neutral Acids
TAL - USEPA Contract Laboratory Program Target Analyte List
VOCs - Volatile Organic Compounds
SVOCs - Semivolatile Organic Compounds
PCBs - Polychlorinated Biphenyls
TICs - Tentatively Identified Compounds
PFAS - Per- and Polyfluoroalkyl Substances
QA/QC samples will be collected as described in the QAPP (Appendix F)
QAPP - Quality Assurance Project Plan

Table 1b. Proposed Groundwater Sampling Locations

Location	Matrix	Sample Interval	Sample Parameters	Sampling Method**	Rationale
MW-1 through MW-6	Groundwater	Water Table	TCL + 30/TAL	SW-846 8260B;SW-846 8270C;SW-846 8081A; SW-846 8151A;SW-846 8082;SW-846 6010/7471; SW-846 7196A; SW-846 9012B	To evaluate groundwater quality.
MW-1 through MW-6	Groundwater	Water Table	1,4-Dioxane, PFAS	Method 537 Modified; SW-846 8270D SIM	To evaluate groundwater quality for emerging contaminants.

** Laboratory will report to their minimum possible standards for each method (QAPP Table 2)
TCL + 30/TAL - includes TCL VOCs + 10 TICs, TCL BNA (SVOCs) + 20 TICs, TCL Pest/PCBs, TAL Metals, Hexavalent Chromium
TCL - USEPA Contract Laboratory Program Target Compound List
TAL - USEPA Contract Laboratory Program Target Analyte List
VOCs - Volatile Organic Compounds
SVOCs - Semivolatile Organic Compounds
TICs - Tentatively Identified Compounds
PCBs - Polychlorinated Biphenyls
PFAS - Per- and Polyfluoroalkyl Substances
QA/QC samples will be collected as described in the QAPP (Appendix F)
*All groundwater samples will be analyzed for both filtered and unfiltered metals and SVOCs

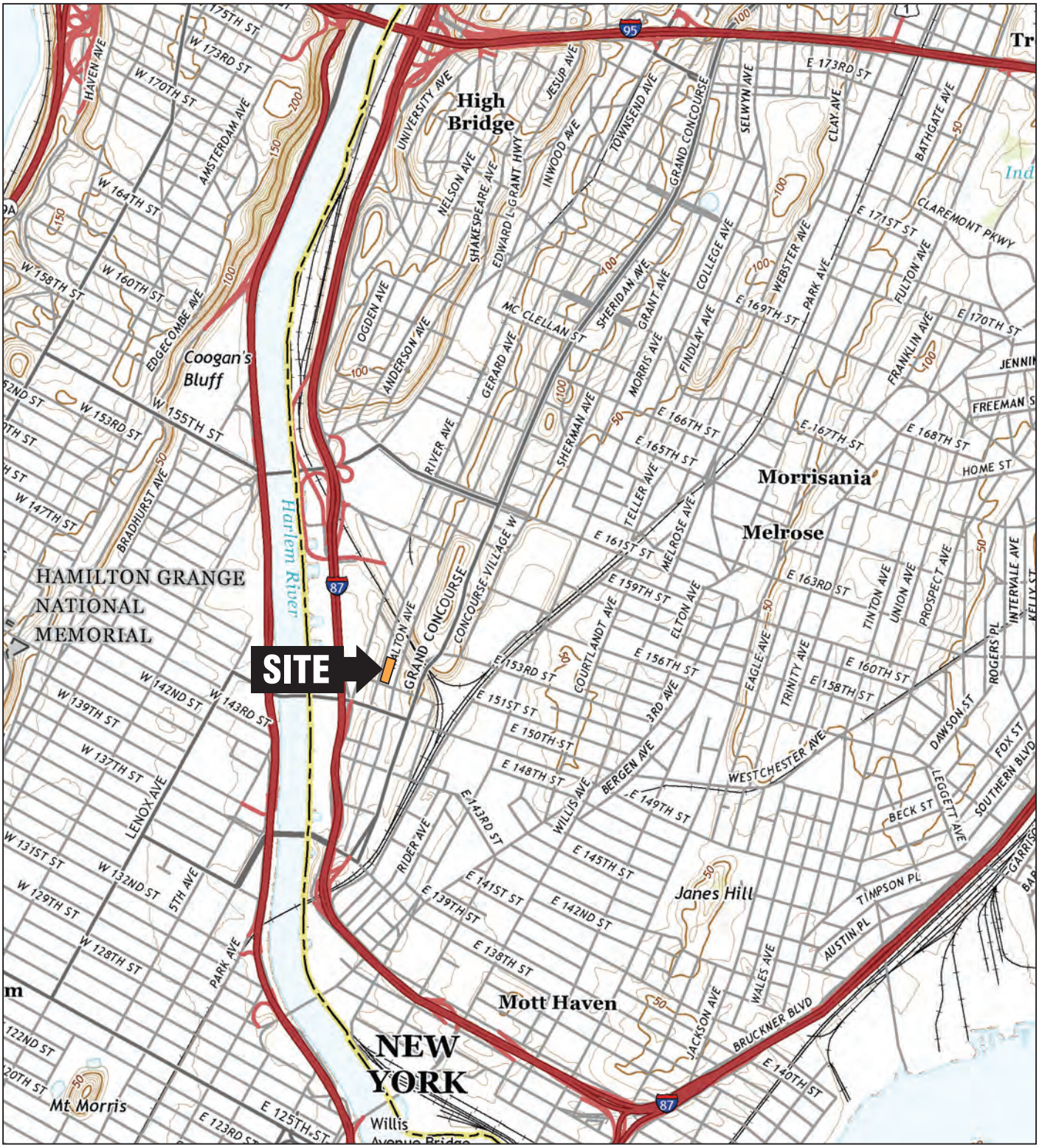
Table 1c. Proposed Soil Vapor Sampling Locations

Area of Concern (AOC)	Location	Matrix	Sample Depth/Location	Sample Parameters	Sampling Method**	Rationale
Sub-Slab Vapor	RSS-1 through RSS-3	Sub-Slab Soil Vapor	Soil vapor points to be installed immediated beneath the building slab.	VOCs	TO-15	To evaluate the nature and extent of soil vapor impacts throughout the Site closest to the residences along Walton Avenue to the east.
Soil Vapor	RSV-1 through RSV-7	Soil Vapor	Soil vapor points to be installed approximately 16 feet below ground surface.	VOCs	TO-15	To evaluate the nature and extent of soil vapor impacts throughout the Site.

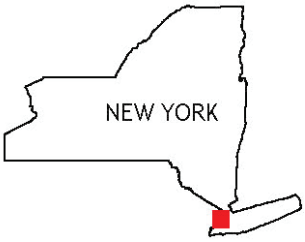
** Laboratory will report to their minimum possible standards for each method (QAPP Table 2)
VOCs - Volatile Organic Compounds
QA/QC samples will be collected as described in the QAPP (Appendix F)

FIGURES

1. Site Location Map
2. Site Plan
3. Summary of Exceedances in Soil
4. Summary of Exceedances in Groundwater
5. Summary of Detections in Soil Vapor
6. Proposed Sampling Locations



QUADRANGLE LOCATION



SOURCE:
USGS; 2019, Central Park, NY-NJ
7.5 Minute Topographic Quadrangle

N

0 2000'

Title:

SITE LOCATION MAP

580 GERARD AVENUE
BRONX, NEW YORK

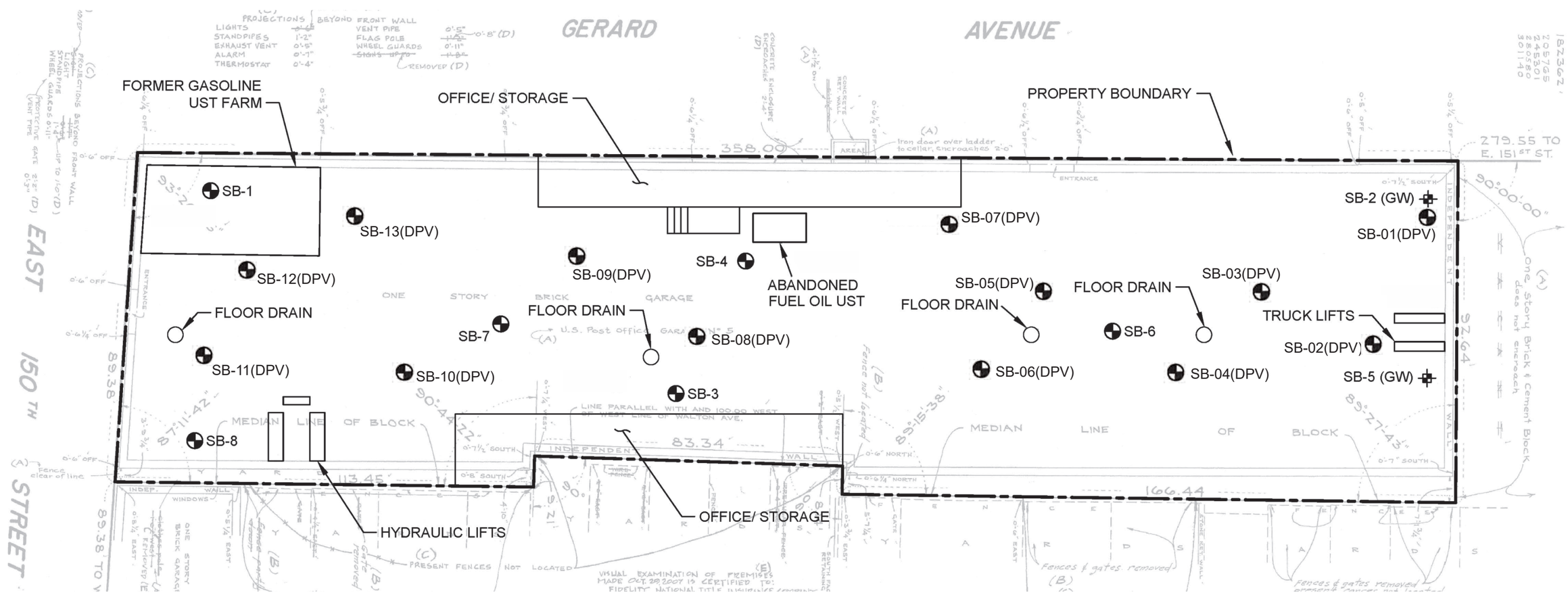
Prepared for:

SB GERARD AVENUE, LLC

ROUX

Compiled by: R.K.	Date: 07MAY20	FIGURE
Prepared by: B.H.C..	Scale: AS SHOWN	1
Project Mgr: R.K.	Project: 3523.0001Y000	
File: 3523.0001Y100.01.CDR		

\3523Y\0001Y100\3523.0001Y100.01.CDR



LEGEND

SB-1 PREVIOUS SOIL BORING SAMPLE LOCATION AND DESIGNATION

SV-1 PREVIOUS SOIL VAPOR SAMPLE LOCATION AND DESIGNATION

SB-2 (GW) PREVIOUS SOIL/GROUNDWATER SAMPLE LOCATION AND DESIGNATION

NOTES

1. SOIL BORINGS WITH THE DESIGNATIONS SB-1 THROUGH SB-8 WERE COLLECTED BY GEI CONSULTANTS, INC. P.C.
2. SOIL BORINGS WITH DESIGNATIONS SB-1(DPV) THROUGH SB-13(DPV) WERE COLLECTED BY DPV CONSULTANTS, INC. IN DECEMBER 2019 - JANUARY 2020. NOTE THAT ROUX ADDED THE SUFFIX "DPV" TO THESE SOIL BORING DESIGNATIONS TO DIFFERENTIATE THEM FROM THE SAMPLES PREVIOUSLY COLLECTED BY GEI WITH SIMILAR DESIGNATIONS.

N

30' 0 30'

SOURCE:

1. PLAN BASED ON MAP PREPARED BY EARL B. LOVELL - S.P. BELCHER, INC

Title:

SITE PLAN

580 GERARD AVENUE
BRONX, NEW YORK

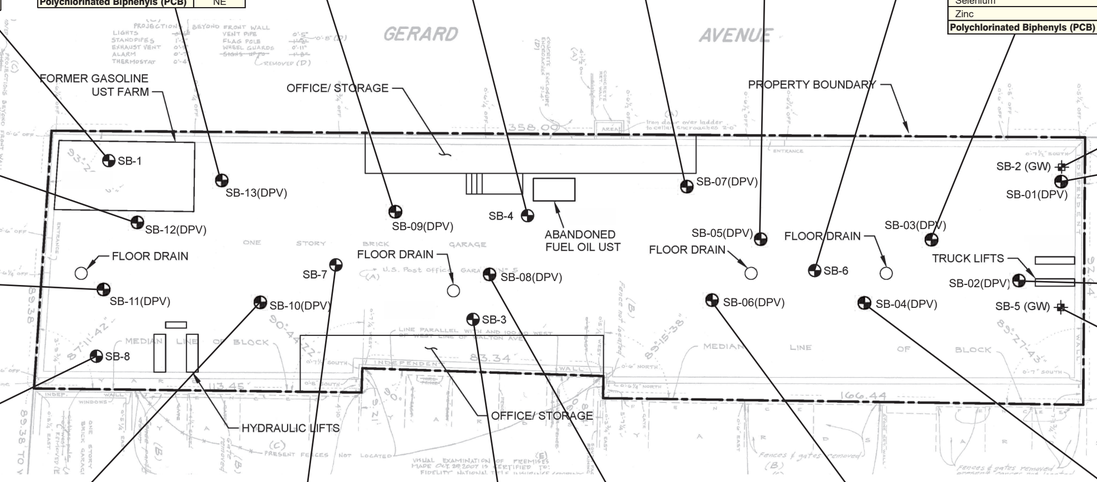
Prepared for:

SB GERARD AVENUE, LLC

ROUX

Compiled by: R.K.	Date: 07MAY90	FIGURE
Prepared by: B.H.C..	Scale: AS SHOWN	2
Project Mgr: R.K.	Project: 3523.0001Y000	
File: 3523.0001Y100.01.CDR		

\3523Y\0001Y\100\3523.0001Y100.01.CDR



SB-12(DPV)	1/6/2020	1/6/2020
Depth (ft bls)	14-15'	12-13'
Volatile Organics		
Acetone	NE	0.086
Semi-Volatiles		
Benzo(a)anthracene	NE	14.8 D
Benzo(a)pyrene	NE	12.1 D
Benzo(b)fluoranthene	NE	9.65 D
Benzo(k)fluoranthene	NE	9.46 D
Chrysene	NE	12.8 D
Dibenzo(a,h)anthracene	NE	2.89 D
Indeno(1,2,3-cd)pyrene	NE	5.91 D
Pesticides		
4,4' -DDE	0.0293 D	NE
4,4' -DDT	0.0391 D	NE
Metals		
Copper	NE	198
Lead	663	521
Mercury	NE	1.71
Zinc	NE	332
Polychlorinated Biphenyls (PCB)	NE	NE

SB-1	8/10/2018	8/10/2018
Depth (ft bls)	0'-2'	21'-23'
Metals		
Copper	106	NE
Lead	398	150
Mercury	0.395	0.457
Zinc	375	129
Pesticides		
4,4'-DDT	0.00819 D	ND

SB-13(DPV)	1/6/2020
Depth (ft bls)	3'-4'
Volatile Organics	NE
Semi-Volatiles	NE
Indeno(1,2,3-cd)pyrene	0.524 D
Pesticides	NE
Metals	
Copper	359
Lead	492
Mercury	2.29
Nickel	31.3
Zinc	493
Polychlorinated Biphenyls (PCB)	NE

SB-09(DPV)	1/3/2020	1/6/2020
Depth (ft bls)	15'-16'	2'-3'
Volatile Organics	NE	NE
Semi-Volatiles	NE	NE
Pesticides	NE	NE
Metals	NE	NE
Polychlorinated Biphenyls (PCB)	NE	NE

SB-07(DPV)	1/3/2020	1/3/2020
Depth (ft bls)	9'-10'	10'-11'
Volatile Organics	NE	NE
Semi-Volatiles	NE	NE
Pesticides	NE	NE
Metals	NE	NE
Copper		1190
Polychlorinated Biphenyls (PCB)	NE	NE

SB-4	8/10/2018	8/10/2018
Depth (ft bls)	0'-2'	17'-19'
VOCs		
Acetone	NE	0.074
Metals		
Barium	938	NE
Lead	397	NE
Mercury	0.909	ND
Zinc	210	NE
Polychlorinated Biphenyls (PCB)		
Total PCBs	4.97 D	ND

SB-05(DPV)	1/2/2020	1/2/2020
Depth (ft bls)	2'-3'	9'-10'
Volatile Organics	NE	NE
Semi-Volatiles	NE	NE
Benzo(a)anthracene	NE	1.83 D
Benzo(a)pyrene	NE	1.88 D
Benzo(b)fluoranthene	NE	1.47 D
Benzo(k)fluoranthene	NE	1.46 D
Chrysene	NE	1.96 D
Dibenzo(a,h)anthracene	NE	0.399 D
Indeno(1,2,3-cd)pyrene	NE	1.19 D
Pesticides	NE	NE
Metals	NE	NE
Chromium	NE	33.6
Copper	NE	279
Lead	NE	242
Mercury	NE	0.498
Zinc	NE	329
Polychlorinated Biphenyls (PCB)	NE	NE

SB-6	8/10/2018	8/10/2018
Depth (ft bls)	0'-2'	10'-12'
VOCs		
Acetone	0.11	0.14
SVOCs		
Benzo(a)anthracene	1.05 D	NE
Benzo(a)pyrene	1.1 D	NE
Benzo(b)fluoranthene	NE	NE
Benzo(k)fluoranthene	0.903 D	NE
Chrysene	1.09 D	NE
Dibenzo(a,h)anthracene	NE	NE
Indeno(1,2,3-cd)pyrene	0.515 D	NE
Metals		
Barium	NE	879
Lead	328	92.2
Mercury	0.286	NE
Nickel	NE	47.2
Zinc	262	232
Pesticides		
4,4'-DDT	0.00469 D	ND

SB-03(DPV)	12/31/2019	12/31/2019	1/2/2020
Depth (ft bls)	7'-8'	9'-10'	11'-12'
Volatile Organics	NE	NE	NE
Semi-Volatiles	NE	NE	NE
Pesticides	NE	NE	NE
Metals	NE	NE	NE
Copper	114	NE	NE
Lead	232	NE	NE
Selenium	5.7	NE	NE
Zinc	166	NE	NE
Polychlorinated Biphenyls (PCB)	NE	NE	NE

SB-2	8/10/2018	8/10/2018
Depth (ft bls)	0'-2'	21'-23'
SVOCs		
Benzo(a)anthracene	1.22 D	NE
Benzo(a)pyrene	1.27 D	NE
Benzo(b)fluoranthene	1.03 D	NE
Benzo(k)fluoranthene	1.09 D	NE
Chrysene	1.27 D	NE
Dibenzo(a,h)anthracene	NE	NE
Indeno(1,2,3-cd)pyrene	0.589 D	NE
Metals		
Barium	875	495
Lead	109	NE
Zinc	259	117
Pesticides		
4,4'-DDT	0.00684 DP	0.0107 D

SB-01(DPV)	12/30/2019
Depth (ft bls)	2'-3'
Volatile Organics	NE
Semi-Volatiles	NE
Pesticides	NE
Metals	NE
Polychlorinated Biphenyls (PCB)	NE

SB-02(DPV)	12/30/2019	12/30/2019
Depth (ft bls)	4'-5'	6'-7'
Volatile Organics	NE	NE
Semi-Volatiles	NE	NE
Pesticides	NE	NE
Metals	NE	NE
Polychlorinated Biphenyls (PCB)	NE	NE

	8/10/2018	8/10/2018
Depth (ft bls)	0'-2'	10'-12'
VOCs		
Acetone	NE	0.17

SB-11(DPV)	1/6/2020	1/6/2020
Depth (ft bls)	10'-11'	8'-9'
Volatile Organics		
Acetone	0.06	NE
Semi-Volatiles	NE	NE
Pesticides	NE	NE
Metals	NE	NE
Polychlorinated Biphenyls (PCB)	NE	NE

SB-8	8/10/18	8/10/18
Depth (ft bls)	0'-2'	17'-19'
SVOCs		
Benzo(a)anthracene	1 D	NE
Benzo(a)pyrene	1.11 D	NE
Benzo(b)fluoranthene	NE	NE
Benzo(k)fluoranthene	0.918 D	NE
Chrysene	0.982 D	NE
Dibenzo(a,h)anthracene	0.215 D	NE
Indeno(1,2,3-cd)pyrene	0.532 D	NE
Metals		
Cadmium	NE	5.02
Copper	NE	81.2
Lead	225	273
Mercury	1.71	0.78
Zinc	554	2110
Polychlorinated Biphenyls		
Total PCBs	0.958	ND
Pesticides		
4,4'-DDE	0.0562 D	ND
4,4'-DDT	0.179 D	NE

SB-10(DPV)	1/6/2020	1/6/2020
Depth (ft bls)	4-5'	6-7'
Volatile Organics	NE	NE
Semi-Volatiles		
indeno(1,2,3-cd)pyrene	NE	0.0732 J
Pesticides		
4,4'-DDD	0.00582 D	NE
4,4'-DDT	0.0293 D	NE
Metals		
Lead	85.8	67
Mercury	0.266	NE
Polychlorinated Biphenyls (PCB)	NE	NE

SB-7	8/10/2018	8/10/2018
Depth (ft bls)	0'-2'	10'-12'
VOCs		
Acetone	NE	0.099
SVOCs		
Benzo(a)anthracene	5.77 D	1.1 D
Benzo(a)pyrene	5.64 D	1.32 D
Benzo(b)fluoranthene	4.48 D	NE
Benzo(k)fluoranthene	4.59 D	0.928 D
Chrysene	6.09 D	1.21 D
Dibenzo(a,h)anthracene	1.09 D	0.216 D
Indeno(1,2,3-cd)pyrene	2.84 D	0.538 D
Metals		
Copper	103	98.6
Lead	358	338
Mercury	0.694	0.583
Zinc	253	210
Polychlorinated Biphenyls		
Total PCBs	0.109	ND
Pesticides		
4,4'-DDT	0.0114 D	ND

SB-3	8/10/2018
Depth (ft bls)	0'-2'
Metals	
Barium	509
Copper	54.7
Lead	285
Mercury	0.474
Nickel	32.4
Zinc	201
Polychlorinated Biphenyls	
Total PCBs	9.11 D

SB-08(DPV)	1/3/2020	1/3/2020
Depth (ft bls)	11-12'	13-14'
Volatile Organics	NE	NE
Semi-Volatiles	NE	NE
Pesticides	NE	NE
Metals		
Lead	NE	67.9
Mercury	NE	0.424
Polychlorinated Biphenyls (PCB)	NE	NE

SB-06(DPV)	1/2/2020	1/2/2020
Depth (ft bls)	6'-7'	7'-8'
Volatile Organics	NE	NE
Semi-Volatiles	NE	NE
Pesticides	NE	NE
Metals	NE	NE
Chromium	32.5	NE
Lead	111	NE
Polychlorinated Biphenyls (PCB)	NE	NE

SB-04(DPV)	1/2/2020	1/2/2020
Depth (ft bls)	13-14'	15-16'
Volatile Organics	NE	NE
Semi-Volatiles		
Indeno(1,2,3-cd)pyrene	NE	1.320 D
Benzo(a)anthracene	NE	2.27 D
Benzo(a)pyrene	NE	2.07 D
Benzo(b)fluoranthene	NE	1.65 D
Benzo(k)fluoranthene	NE	1.64 D
Chrysene	NE	2.28 D
Dibenzo(a,h)anthracene	NE	0.459 JD
Indeno(1,2,3-cd)pyrene	NE	1.320 D
Pesticides	NE	NE
Metals		
Copper	NE	70.4
Lead	165	268
Mercury	NE	0.249
Zinc	NE	252
Polychlorinated Biphenyls (PCB)	NE	NE

Parameter	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Residential Soil Cleanup Objectives	NYSDEC Part 375 Commercial Soil Cleanup Objectives
Volatile Organics			
Acetone	0.05	100	500
Semi-Volatiles			
Benzo(a)anthracene	1	1	5.6
Benzo(a)pyrene	1	1	1
Benzo(b)fluoranthene	1	1	5.6
Benzo(k)fluoranthene	0.8	3.9	56
Chrysene	1	3.9	56
Dibenzo(a,h)anthracene	0.33	0.33	0.56
Indeno(1,2,3-cd)pyrene	0.5	0.5	5.6
Pesticides			
4,4'-DDD	0.0033	13	92
4,4'-DDE	0.0033	8.9	62
4,4'-DDT	0.0033	7.9	47
Metals			
Cadmium	2.5	4.3	9.3
Chromium	30	180	1500
Copper	50	270	270
Lead	63	400	1000
Manganese	1600	2000	10000
Mercury	0.18	0.81	2.8
Nickel	30	310	310
Selenium	3.9	180	1500
Zinc	109	10000	10000
Polychlorinated Biphenyls (PCB)			
Total PCBs	0.1	1	1

Concentrations in mg/kg
mg/kg - Milligrams per kilogram
NYSDEC - New York State Department of Environmental Conservation
– - No NYSDEC Part 375 Soil Cleanup Objectives available
J - Estimated value
DUP - Duplicate Sample
VOCs - Volatile Organic Compounds
SVOCs - Semivolatile Organic Compounds
PCBs - Polychlorinated Biphenyls
NE - No exceedance
ND - No detection
NA - Not analyzed for by laboratory
ft bls - Feet below land surface

LEGEND

SB-1 — PREVIOUS SOIL BORING SAMPLE LOCATION AND DESIGNATION

SB-2 (GW) — PREVIOUS SOIL/GROUNDWATER SAMPLE LOCATION AND DESIGNATION

NOTES

1. SOIL BORINGS WITH THE DESIGNATIONS SB-1 THROUGH SB-8 WERE COLLECTED BY GEI CONSULTANTS, INC. P.C.
2. SOIL BORINGS WITH DESIGNATIONS SB-1(DPV) THROUGH SB-13(DPV) WERE COLLECTED BY DPV CONSULTANTS, INC. IN DECEMBER 2019 - JANUARY 2020. NOTE THAT ROUX ADDED THE SUFFIX "DPV" TO THESE SOIL BORING DESIGNATIONS TO DIFFERENTIATE THEM FROM THE SAMPLES PREVIOUSLY COLLECTED BY GEI WITH SIMILAR DESIGNATIONS.

SOURCE:
1. PLAN BASED ON MAP PREPARED BY EARL B. LOVELL - S.P. BELCHER, INC

N

40' 0 40'

Title:

SUMMARY OF EXCEEDANCES IN SOIL

580 GERARD AVENUE
BRONX, NEW YORK

Prepared for:

SB GERARD AVENUE, LLC

ROUX

Compiled by: R.K.	Date: 07MAY20	FIGURE
Prepared by: B.H.C..	Scale: AS SHOWN	3
Project Mgr: R.K.	Project: 3523.0001Y000	
File: 3523.0001Y100.01.CDR		

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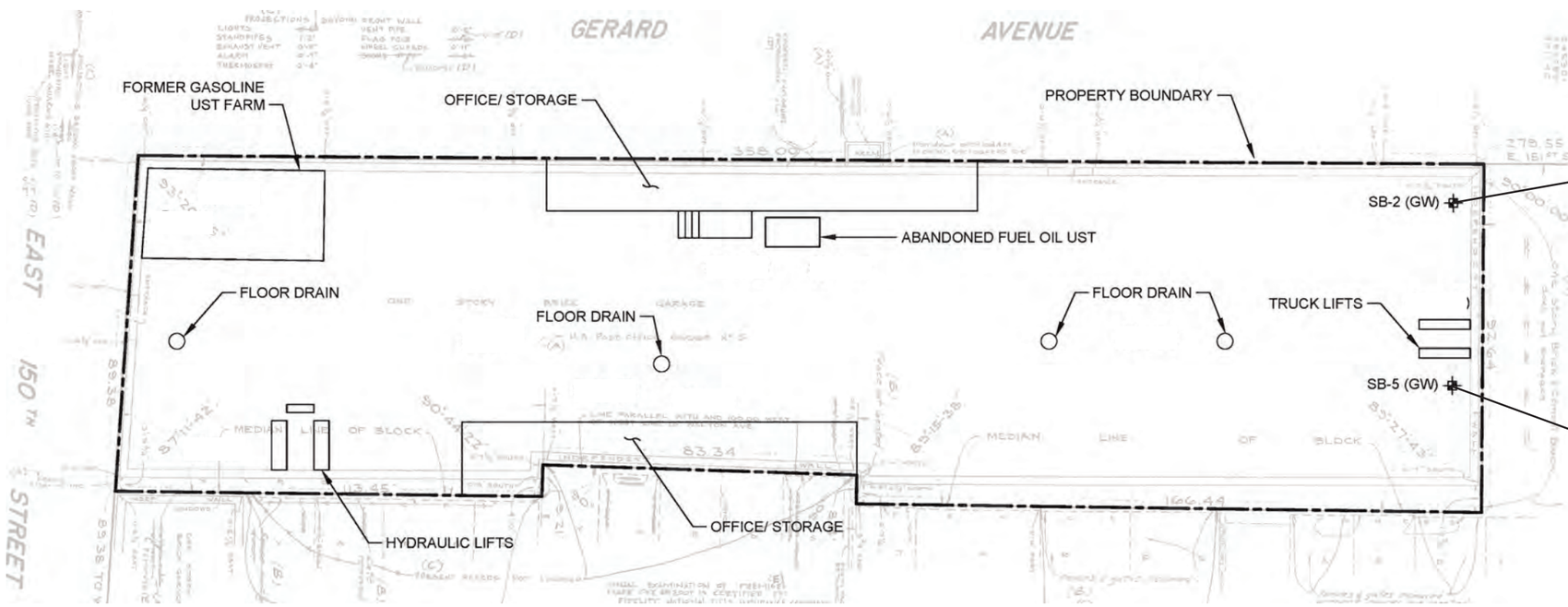

SB-2	8/10/18
VOCs	
1,2,4-Trimethylbenzene	1200 D
1,3,5-Trimethylbenzene	340 D
Chloroform	10 D
Isopropylbenzene	47 D
n-Butylbenzene	43 D
n-Propylbenzene	110 D
p-Isopropyltoluene	7.2 D
sec-Butylbenzene	12 D
SVOCs	
Naphthalene	19.6

SB-5	8/10/18
VOCs	
Chloroform	16

Parameter	NYSDEC AWQSGV
VOCs	
1,2,4-Trimethylbenzene	5
1,3,5-Trimethylbenzene	5
Chloroform	7
Isopropylbenzene	5
n-Butylbenzene	5
n-Propylbenzene	5
p-Isopropyltoluene	5
sec-Butylbenzene	5
SVOCs	
Naphthalene	10
Metals, Total	NE
Metals, Filtered	NE
PCBs	NE
Pesticides	NE

Concentrations in µg/L
µg/L -Micrograms per liter
*NYSDEC AWQSGVs
NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
-- Not detected above NYSDEC AWQSGV
B - Found in laboratory blank
E - Exceeds calibration limit
D - Dilution
J - Estimated value
DUP - Duplicate Sample
VOCs - Volatile Organic Compounds
SVOCs - Semivolatile Organic Compounds
PCBs - Polychlorinated Biphenyls
NE - No exceedances
ND - No detection

LEGEND

SB-2 (GW) — SOIL/GROUNDWATER SAMPLE LOCATION AND DESIGNATION

NOTE

GROUNDWATER SAMPLES COLLECTED BY GEI CONSULTANTS, INC P.C.

SOURCE:

1. PLAN BASED ON MAP PREPARED BY EARL B. LOVELL - S.P. BELCHER, INC

N

40' 0 40'

Title:

SUMMARY OF EXCEEDANCES IN GROUDWATER

580 GERARD AVENUE
BRONX, NEW YORK

Prepared for:

SB GERARD AVENUE, LLC

ROUX

Compiled by: R.K.	Date: 07MAY90	FIGURE
Prepared by: B.H.C..	Scale: AS SHOWN	4
Project Mgr: R.K.	Project: 3523.0001Y000	
File: 3523.0001Y100.01.CDR		

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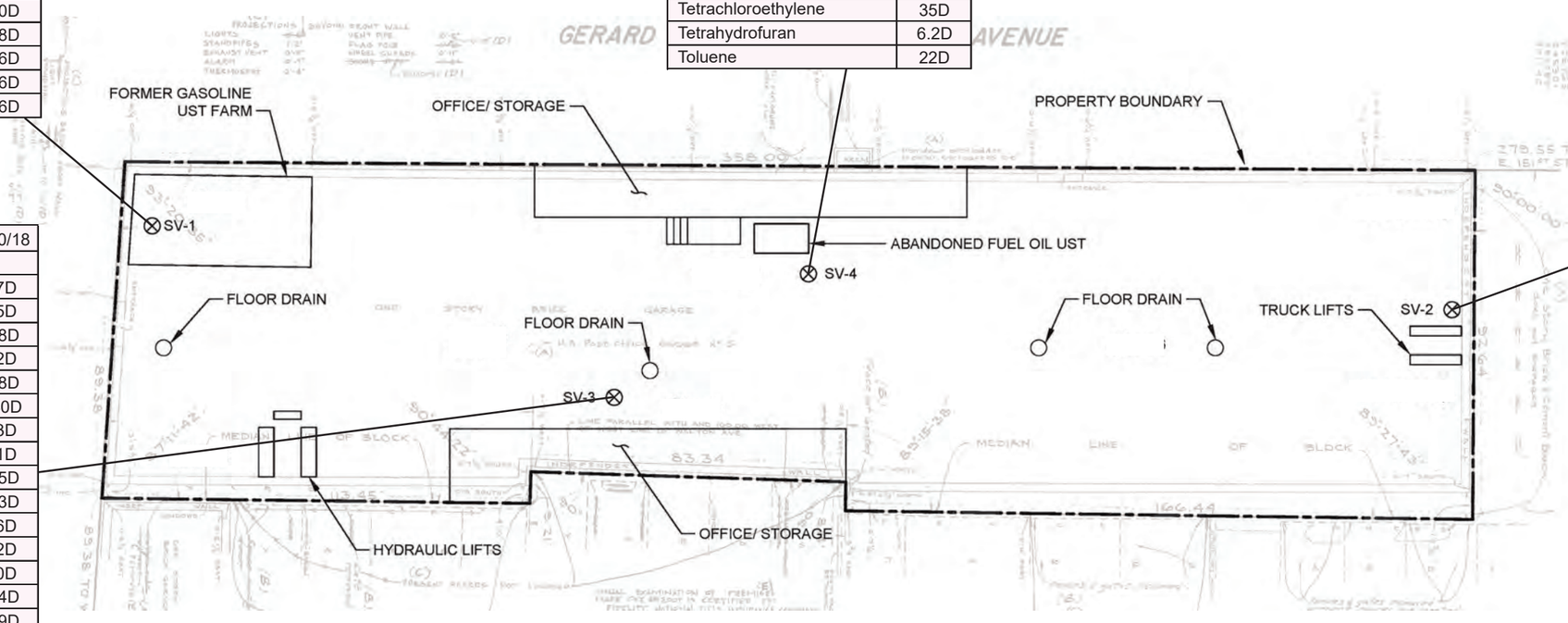
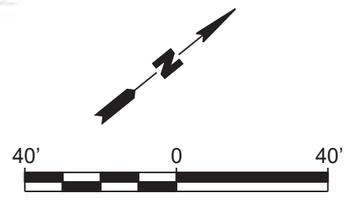
SV-1	8/10/18
VOCs	
1,1,1-Trichloroethane	4.6D
1,2,4-Trimethylbenzene	8.2D
1,3-Butadiene	4.5D
1,3-Dichlorobenzene	7.7D
2-Butanone	120D
4-Methyl-2-pentanone	8D
Acetone	660D
Benzene	7.6D
Cyclohexane	7.2D
Ethyl Benzene	7.5D
Isopropanol	140D
n-Heptane	21D
n-Hexane	11D
o-Xylene	11D
p- & m- Xylenes	30D
Propylene	28D
Tetrachloroethylene	56D
Tetrahydrofuran	16D
Toluene	26D

SV-4	8/10/18
VOCs	
1,2,4-Trimethylbenzene	12D
2-Butanone	25D
4-Methyl-2-pentanone	3.5D
Acetone	110D
Benzene	3.1D
Carbon disulfide	43D
Chloromethane	1.9D
Cyclohexane	11D
Ethyl Benzene	8.2D
Isopropanol	47D
Methylene chloride	6.2D
n-Hexane	11D
o-Xylene	12D
p- & m- Xylenes	32D
Propylene	27D
Tetrachloroethylene	35D
Tetrahydrofuran	6.2D
Toluene	22D

SV-2	8/10/18
VOCs	
1,2,4-Trimethylbenzene	10D
2-Butanone	26D
Acetone	150D
Benzene	4.4D
Carbon disulfide	12D
Chloromethane	1.6D
Cyclohexane	3.7D
Ethyl Benzene	7.9D
Isopropanol	67D
Methylene chloride	37D
n-Hexane	8.4D
o-Xylene	11D
p- & m- Xylenes	31D
Propylene	15D
Tetrachloroethylene	460D
Tetrahydrofuran	5.6D
Toluene	18D

SV-3	8/10/18
VOCs	
1,2,4-Trimethylbenzene	47D
1,3,5-Trimethylbenzene	25D
1,3-Butadiene	7.8D
2-Butanone	62D
4-Methyl-2-pentanone	8.8D
Acetone	180D
Benzene	23D
Carbon disulfide	31D
Chloroform	4.5D
Chloromethane	3.3D
Cyclohexane	46D
Ethyl Benzene	22D
Isopropanol	60D
Methyl tert-butyl ether (MTBE)	8.4D
Methylene chloride	6.9D
n-Heptane	120D
n-Hexane	75D
o-Xylene	28D
p- & m- Xylenes	73D
p-Ethyltoluene	29D
Propylene	130DE
Tetrachloroethylene	44D
Tetrahydrofuran	22D
Toluene	47D





LEGEND

SV-1 ⊗ SOIL VAPOR SAMPLE LOCATION AND DESIGNATION

Concentrations in µg/m^3

µg/m^3 - Micrograms per cubic meter

VOCs - Volatile Organic Compounds

ND - Compound was analyzed for but not detected

D - A secondary analysis after dilution due to exceedance of the calibration range in the original sample

NOTE

SOIL VAPOR SAMPLES COLLECTED BY GEI CONSULTANTS, INC P.C.

SOURCE:

1. PLAN BASED ON MAP PREPARED BY EARL B. LOVELL - S.P. BELCHER, INC

Title:

SUMMARY OF DETECTIONS IN SOIL VAPOR

580 GERARD AVENUE
BRONX, NEW YORK

Prepared for:

SB GERARD AVENUE, LLC

ROUX

Compiled by: R.K.	Date: 07MAY90	FIGURE
Prepared by: B.H.C..	Scale: AS SHOWN	5
Project Mgr: R.K.	Project: 3523.0001Y000	
File: 3523.0001Y100.01.CDR		

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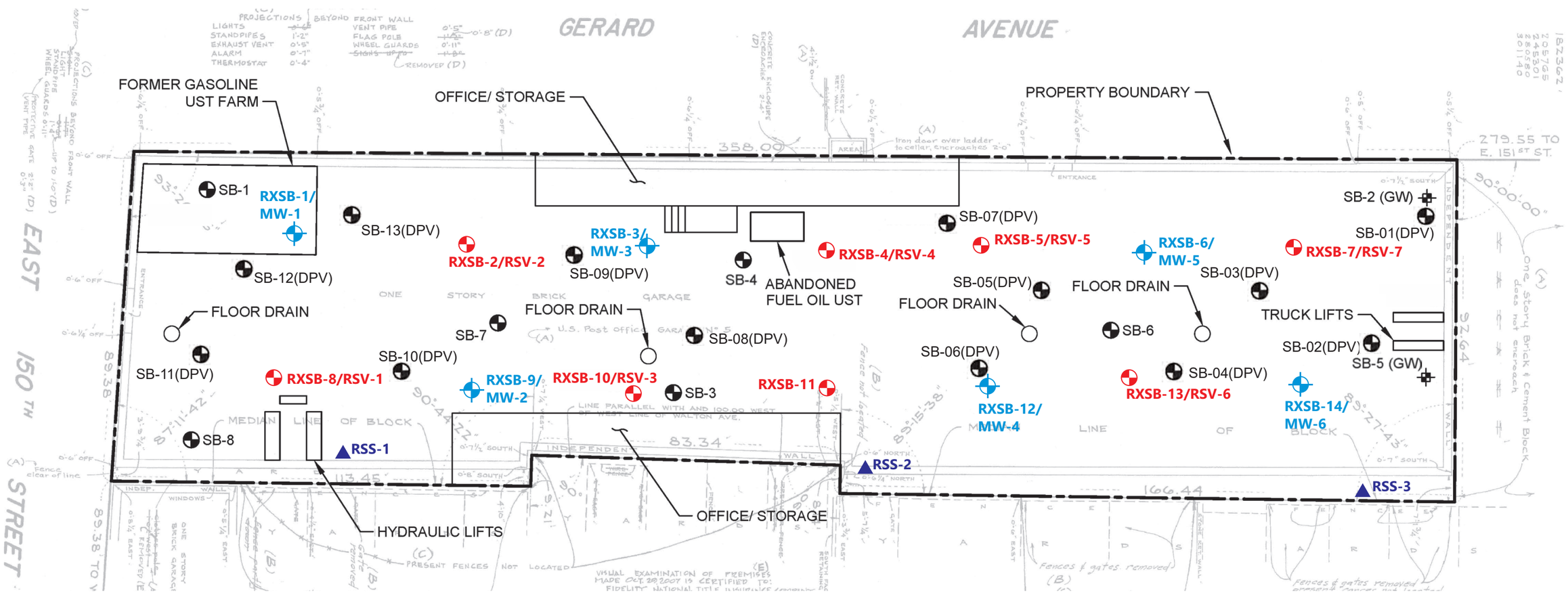

LEGEND

RXSB-1	PROPOSED RI SOIL BORING AND SOIL VAPOR SAMPLE LOCATION AND DESIGNATION
RSB-12/ MW-4	PROPOSED RI MONITORING WELL / SOIL BORING LOCATION AND DESIGNATION
RSS-1	PROPOSED RI SUB-SLAB VAPOR SAMPLE LOCATION AND DESIGNATION
SB-1	PREVIOUS SOIL BORING SAMPLE LOCATION AND DESIGNATION
SV-1	PREVIOUS SOIL VAPOR SAMPLE LOCATION AND DESIGNATION
SB-2 (GW)	PREVIOUS SOIL/GROUNDWATER SAMPLE LOCATION AND DESIGNATION

NOTES

1. SOIL BORINGS WITH THE DESIGNATIONS SB-1 THROUGH SB-8 WERE COLLECTED BY GEI CONSULTANTS, INC. P.C.
2. SOIL BORINGS WITH DESIGNATIONS SB-1(DPV) THROUGH SB-13(DPV) WERE COLLECTED BY DPV CONSULTANTS, INC. IN DECEMBER 2019 - JANUARY 2020. NOTE THAT ROUX ADDED THE SUFFIX "DPV" TO THESE SOIL BORING DESIGNATIONS TO DIFFERENTIATE THEM FROM THE SAMPLES PREVIOUSLY COLLECTED BY GEI WITH SIMILAR DESIGNATIONS.

SOURCE:

1. PLAN BASED ON MAP PREPARED BY EARL B. LOVELL - S.P. BELCHER, INC

Title:

PROPOSED RI SAMPLE LOCATIONS

580 GERARD AVENUE
BRONX, NEW YORK

Prepared for:

SB GERARD AVENUE, LLC

ROUX

Compiled by: R.K.	Date: 07MAY90	FIGURE
Prepared by: B.H.C..	Scale: AS SHOWN	6
Project Mgr: R.K.	Project: 3523.0001Y000	
File: 3523.0001Y100.01.CDR		

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APPENDICES

A. Historical Reports
B. GEI Subsurface (Phase II) Investigation Report Tables
C. Quality Assurance Project Plan/Field Sampling Plan
D. Site Specific Health and Safety Plan/Community Air Monitoring Plan

APPENDIX A

Historical Reports

Environmental
Engineers and
Scientists

Phase II Environmental

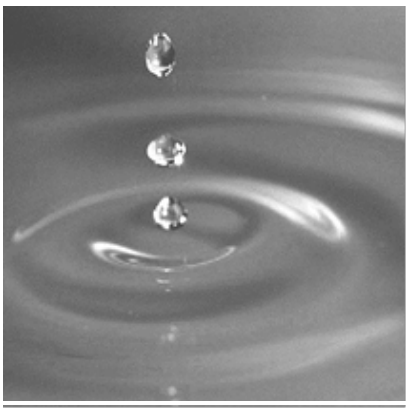
Subsurface Investigation

580-610 Gerard Avenue, Bronx, NY

Submitted to:
Hunton Andrews Kurth LLP
951 East Byrd Street
Richmond, Virginia, 23219

Prepared by:
GEI Consultants, Inc., P. C.
110 Walt Whitman Road, Suite 204
Huntington Station, NY 11746
631-760-9300

September 2018
Project 1803080



William J. Fitchett
Staff Professional

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Project Manager

Nicholas J. Recchia, P.G.
Environmental Practice Leader
Hydrogeologist

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Executive Summary

GEI Consultants Inc., P. C. was retained by Hunton Andrews Kurth LLP on behalf of EMMES Asset Management Company to perform a Phase II Environmental Subsurface Investigation (ESI) at 580-610 Gerard Avenue, Bronx, New York (Site), an E-designated parcel (E Number E-292, issued by New York City Department of Environmental Protection [NYCDEP]). GEI conducted field activities on August 9 and 10, 2018. These activities included a limited geophysical survey and a subsurface investigation. Soil boring logs detailing the field observations made during the subsurface investigation are presented in **Appendix A**.

A total of eight (8) test borings were performed in the building on the Site. Soil borings were advanced and analytical samples were collected to determine if there are impacts to soils underlying the project Site. Two (2) soil borings were advanced into the groundwater table and two (2) groundwater grab samples were collected. Additionally, four (4) soil vapor samples were collected from temporary implants installed beneath the building floor slab.

The soil composition of the eight (8) borings was similar, with predominantly fine to medium-grained sand and fill material along with some silt found to exist from the surface to terminus of the borings. Groundwater was encountered in two (2) borings at approximately 23 feet below land surface (bls).

Soils from each boring were evaluated for visual and olfactory impacts (e.g. staining and odors) and were field screened for organic vapors using a photoionization detector (PID). Elevated PID readings and an odor were noted in boring SB-2 at the intersection of the water table, approximately 21-23 feet bls.

Based upon the laboratory analysis results of the fifteen (15) soil samples, there were no elevated concentrations of Volatile Organic Compounds (VOCs) above the New York State Department of Environmental Conservation's (NYSDEC) Part 375 Restricted and/or Unrestricted Use Soil Cleanup Objectives (RUSCOs/UUSCOs), other than acetone. Acetone is considered a common laboratory relic.

Isolated VOC impacts including 1,2,4-trimethlybenzene, 1,3,5-trimethlybenzene, chloroform, isopropylbenzene, n-butylbenzene, n-propylbenzene, and napthalene were detected at concentrations above the applicable standards in groundwater sample SB-2(GW). No detections above the applicable standards were detected in groundwater sample SB-5(GW). These limited groundwater impacts were observed beneath the hydraulically upgradient corner of the Site, and not in the vicinity of any of the recognized environmental conditions (RECs) (i.e., former gasoline and fuel oil underground storage tanks [USTs], hydraulic lifts,

floor drains, etc.) identified in the Phase I ESAs previously conducted for the Site, therefore they are most likely attributable to an upgradient, off-Site source.

VOCs were detected in soil vapor at predominantly low levels throughout the project Site. However, elevated tetrachloroethene was detected in soil vapor sample SV-2.

Based upon the above findings, it is GEI's professional opinion that no further investigations/ actions are necessary with regard to this subsurface investigation at present. If redevelopment is considered for this property, as required by the NYCOER E-designation program, prior to redevelopment, a Remedial Action Work Plan (RAWP) would be prepared and a remedy will be selected based on the remedial investigation results in conjunction with the proposed redevelopment to address the soil, soil vapor, and groundwater impacts that are present on the Site. Where soil/fill beneath the building will be disturbed, the soil/fill will require appropriate characterization prior to off-Site disposal. Additionally, any former features related to the previous garage operations (i.e., hydraulic lifts) and former underground storage tanks should be decommissioned, removed and disposed of in accordance with applicable regulations. Other typical measures employed during construction within New York City, including waterproofing/vapor barrier membranes and connection to public water supply would likely be included in the remedy selection process.

1. Introduction

GEI Consultants Inc., P. C. (GEI) was retained by Hunton Andrew Kurth LLP on behalf of EMMES Asset Management Company to complete an Environmental Subsurface Investigation (ESI) at the property located at 580-610 Gerard Avenue, Bronx, New York (Site), in support of property transfer. GEI also performed a Phase I Environmental Site Assessment (ESA) (GEI Project No. 1801351). Additionally, it should be noted that previous Phase I ESA Reports were completed in January 2011 and December 2015 for the project Site. The 2011 Phase I ESA was performed by EEA, Inc. for Sam Schwartz Engineering of New York, New York on behalf of EMMES Asset Management Company Ltd., LLC. The December 2015 Phase I ESA was conducted by GEI. Compared to the findings within the Phase I ESA performed for this Site in January 2011 by EEA, Inc., and December 2015 and August 2018 by GEI, no significant changes to the building had been identified, except for the in-place closure of one UST in April 2018.

This report summarizes the work performed by GEI, the analytical results of the investigation, and provides any recommendations for further testing or remedial actions.

The project Site is located on the east side of Gerard Avenue, between East 150th Street and East 151st Street, in the Borough of the Bronx, New York City, New York (**Figure 1**). The New York City Tax Map identification number associated with the project Site is Block 2353, Lot 1. The project Site was occupied by a single-story garage building. The subject building, which measures approximately 31,200 square feet in area, primarily covers the project Site except for a 3-foot path on the east side of the building. The building is currently vacant and was most recently utilized as a furniture warehouse. No visible indications of on-Site waste disposal of toxic and/or hazardous materials were observed at the time of inspection. No operations involving the use of toxic or hazardous materials were present on the project Site at the time of the Site assessment.

The Site currently has an E-designation (E Number E-292) issued by New York City Department of Environmental Protection (NYCDEP) during the City Environmental Quality Review process. Prior to redevelopment, the Site environmental concerns will need to be addressed through the New York City Office of Environmental Remediation (NYCOER) E-Designation Program.

1.1 Previous Reports

As previously mentioned, GEI completed a Phase I ESA in August 2018 and December 2015. Additionally, it should be noted that a 2011 Phase I ESA was performed by EEA, Inc. Compared to the findings within the Phase I ESA performed for this Site in January 2011 by EEA, Inc., and December 2015 and August 2018 by GEI, no significant changes to the

building had been identified, except for the in-place closure of one UST in April 2018. The conclusions of these reports revealed that similar recognized environmental conditions (RECs) were identified that pertained to gasoline storage tanks, hydraulic lift units, a fuel oil storage tank, and interior floor drains.

2. Subsurface Investigation Activities

GEI completed field activities on August 9 and 10, 2018. These activities included a subsurface investigation and limited geophysical survey.

2.1 Pre-Mobilization Activities

All activities on-Site were completed under the Site-Specific Health and Safety Plan (HASP). The HASP assigns responsibilities, establishes personal protection standards, recommends operating procedures, and provides for contingencies that may arise during performance of the assessment at the Site. The protocols in the HASP applied to all personnel involved in the work activities including GEI, all outside subcontractors, client, or regulatory agencies present during the performance of the work.

Cascade Technical Services (Cascade) was the subcontractor on-Site that completed the subsurface drilling under direction of GEI. Prior to mobilization, Cascade notified One Call 811 under the New York State Regulation Code 753 to identify the location of underground utilities near the proposed boring locations. The Dig Safe mark out number assigned was 181390101.

2.2 Subsurface Investigation

2.2.1 Soil Borings

Eight (8) soil borings (SB-1 through SB-8) were advanced in strategically selected locations throughout the project Site based on the previously identified RECs. A total of 15 soil samples were collected. The varying sample collection depths were the result of drilling refusal being encountered at depths ranging from 5 to 25 feet bls, in this case below the floor slab, during the investigation. Details for each boring location are summarized as follows:

Boring ID	Sample Depths (feet bls)	Termination Depth (feet bls)
SB-1	0-2 and 21-23	25, drilling refusal on rock, moist at bottom
SB-2(GW)	0-2 and 21-23	25, water table
SB-3	0-2	5, drilling refusal on rock
SB-4	0-2 and 17-19	20, water table
SB-5(GW)	0-2 and 10-12	25, water table
SB-6	0-2 and 10-12	20, no impacts
SB-7	0-2 and 10-12	19, drilling refusal on rock
SB-8	0-2 and 17-19	19.5, drilling refusal on rock

Laboratory analysis included analysis for Target Compound List (TCL) Volatile Organic Compounds (VOCs) by United States Environmental Protection Agency (USEPA) 8260,

TCL Semi-Volatile Organic Compounds (SVOCs) by USEPA Method 8270, Target Analyte List (TAL) Metals, Pesticides by USEPA 8081, and Polychlorinated Biphenyls (PCBs) by USEPA Method 8082.

2.2.2 Groundwater Grab Sample Collection

Groundwater was encountered at approximately 24 feet bls in soil boring SB-2 and SB-5, and approximately 20 feet bls in SB-4. No groundwater was encountered at the remaining locations, except for SB-1 where the soil immediately above the bedrock was moist, but groundwater was not able to be collected due to low permeability soil conditions.

Groundwater was collected by installing a temporary 1-inch diameter poly-vinyl chlorinated (PVC) slotted monitoring well screen and riser pipe into the existing soil bore hole after soil samples were collected. Groundwater grab samples were collected from each location using a peristaltic pump and dedicated tubing. Both groundwater samples were submitted for laboratory analysis for TCL VOCs by USEPA 8260, TCL SVOCs by USEPA Method 8270, TAL Metals, Pesticides by USEPA 8081, and PCBs by USEPA Method 8082.

2.2.3 Soil Vapor Sample Collection

Four (4) sub-slab soil vapor samples were collected from approximately 6-inches beneath the floor slab. Each sample was collected in a 6-Liter Summa canister with a regulator set to fill over the course of approximately two (2) hours. Each Summa canister was submitted for analysis of VOCs via TO-15.

2.2.4 Limited Geophysical Survey

Ground Penetrating Radar Systems, LLC (GPRS), under the direction of GEI, performed an electronic magnetometer (EM) and ground penetrating radar (GPR) survey to identify and determine the location of any unknown subsurface features of potential environmental concern (anomalies) such as USTs, underground drainage systems, or hydraulic lifts. GPRS used a Geophysical Survey Systems Inc. SIR-3000 cart-mounted GPR unit with a 400 MHz and Radio detection RD7000 precision utility locator to collect data from selected boring locations and an area in the southwestern portion of the project Site that is likely the former location of the 550-gallon gasoline USTs.

2.2.5 On-Site Field Activities

Cascade utilized a Geoprobe® Model 7822DT with MacroCore sleeves for the boring locations. Soil borings were advanced in continuous 5-foot intervals and were completed with a dedicated, acetate liner used to retrieve and observe the soil. The soil was inspected for staining and odors prior to field screening for organic vapors utilizing a photoionization detector (PID).

2.3 Sampling Activities

GEI implements a Quality Assurance and Quality Control Plan (QA/QC) to ensure sample integrity and avoid contamination and/or cross-contamination of samples. All reusable sampling equipment was cleaned before each sample was collected and disposable, one-use equipment (i.e., disposable nitrile gloves) were utilized to the extent possible during this sampling event. Preference to sampling was given to soils that had the greatest impacts noted, either by visual staining or record of elevated organic vapors identified by the PID. Samples were selected for laboratory analysis as follows:

- The 0-2-foot interval bls, (in this case below the building's floor slab);
- The 2-foot interval exhibiting the highest PID reading and/or visual and/or olfactory observations indicating impacts;
- If no impacts are observed, the 0-2-foot bls and 2-foot interval immediately above the water table or bedrock (if encountered);
- If no impacts were observed, and the water table/bedrock were not observed, the 10- to 12-foot bls interval was be selected for analysis, as this would represent the typical depth of redevelopment excavation for structures with a potential basement.

2.4 Soil Quality

The boring and sampling locations are identified on **Figure 2**. Boring logs that detail the sampling, PID readings and sensory findings are included as **Appendix A**. The soil composition of the eight (8) borings was similar, with predominantly fine to medium-grained sand along with silt found to exist from the surface to the terminus of the borings. Groundwater was encountered in two borings at approximately 23 feet bls.

During the sampling, a petroleum-like odor, along with an elevated PID reading were observed at location SB-2 at the intersection of the groundwater table. No other petroleum odors or elevated PID readings or other visual/olfactory signs of contamination were noted during the investigation.

The selected soil sample from each test boring location was collected and placed in laboratory supplied sample jars. The sample jars were then placed in a cooler on ice and chilled in accordance with standard operating procedures prior to delivery to the laboratory for analysis.

3. Sample Analysis Findings

Samples collected during the field work were submitted for analysis to York Analytical Laboratories (York) located at 120 Research Drive, Stratford, Connecticut. York is National Environmental Laboratory Accreditation Program laboratory with certification in New York as NY Lab Id No. 10854. The laboratory analytical reports and associated Chain-of-Custody forms are provided in **Appendix B**.

Table 1 presents the soil sampling results (SB-1 through SB-8) and a comparison to NYSDEC Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives (UUSCOs) and NYSDEC Part 375-6.8(b) Restricted Residential Use Soil Cleanup Objectives (RRUSCOs). The soil samples were analyzed for TCL VOCs by USEPA 8260, TCL SVOCs by USEPA Method 8270, TAL Metals, Pesticides by USEPA 8081, and PCBs by USEPA Method 8082.

Table 2 presents the groundwater sampling results (SB-2[GW]) and (SB-5[GW]) provides a comparison to NYSDEC Division of Water Technical and Operation Guidance Series (TOGS) Guidance Values. The groundwater samples were analyzed for TCL VOCs by USEPA 8260, TCL SVOCs by USEPA Method 8270, TAL Metals, Pesticides by USEP547A 8081, and PCBs by USEPA Method 8082.

Table 3 presents the soil vapor sampling results (SV-1 through SV-4) and a comparison to the New York State Department of Health (NYSDOH) Center for Environmental Health (CEH) Bureau of Environmental Exposure Investigation (BEEI) Final Guidance for Evaluation Soil Vapor Intrusion in the state of New York (updated May 2017).

4. Summary, Conclusions, and Recommendations

This investigation was performed to determine the present environmental conditions at the Site, in support of property transfer.

Summary and Conclusions

Limited Geophysical Survey

All proposed soil boring locations were cleared of private utilities on August 9, 2018 by GPRS. Additionally, the southeastern quadrant of the Site was scanned for the presence of USTs. No USTs were identified during the limited geophysical survey.

Soil Quality

The results included exceedances of RRUSCOs for metals in six (6) of eight (8) borings, SVOCs in four (4) borings, and PCBs in two (2) borings. Metals and Total PCBs were detected at the highest concentrations in SB-3 at a depth of 0-2 feet bls. SVOCs were detected above RRUSCOS in four borings, with the highest concentrations revealed in SB-7 at a depth of 0-2 feet. Pesticides were also detected at concentrations above UUSCOs but below RRUSCOs in four (4) borings, with the highest concentration detected in boring SB-8 at a depth of 0-2 feet.

No soil impacts were observed in the areas of the RECs identified in the Phase I ESA. The sitewide, predominantly shallow distribution and nature of these impacts (metals, SVOCs, pesticides, and PCBs) are typical of urban fill throughout New York City and do not represent a significant source area of contamination at the Site. The presence of fill material beneath the Site is unlikely to impede redevelopment of the Site. As part of the requirements of the NYCOER E-designation program, any soil/fill material removed from the Site will require appropriate characterization and disposal at permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal of such material.

Groundwater Quality

VOCs including 1,2,4-Trimethlybenzene, 1,3,5-Trimethlybenzene, Chloroform, Isopropylbenzene, n-Butylbenzene, n-Propylbenzene, and Napthalene were detected at concentrations above NYSDEC TOGs standards in groundwater sample SB-2(GW). No detections above NYSDEC TOGs Guidance Values were detected in groundwater sample SB-5 (GW).

Although no permanent groundwater monitoring wells were installed as part of this investigation, based on the Phase I findings, groundwater is anticipated to flow in a southerly

direction, toward the Harlem River. No impacts to groundwater were observed in the areas of the RECs identified in the Phase I ESA. The location of the limited degraded hydrocarbon detections in groundwater at SB-2(GW) on the upgradient side of the Site, on the opposite side of the building from the locations of former USTs associated with historical operations, is indicative of an upgradient off-Site source impacting groundwater that travels beneath the north-northwestern corner of the Site. The lack of detections in the groundwater sample collected at SB-5(GW) further supports the limited nature of the groundwater impacts. The limited impacts to groundwater in SB-2(GW) are unlikely to impede redevelopment at the Site since groundwater in New York City is not utilized for municipal purposes, potable water is acquired through the New York City public water supply.

Soil Vapor Quality

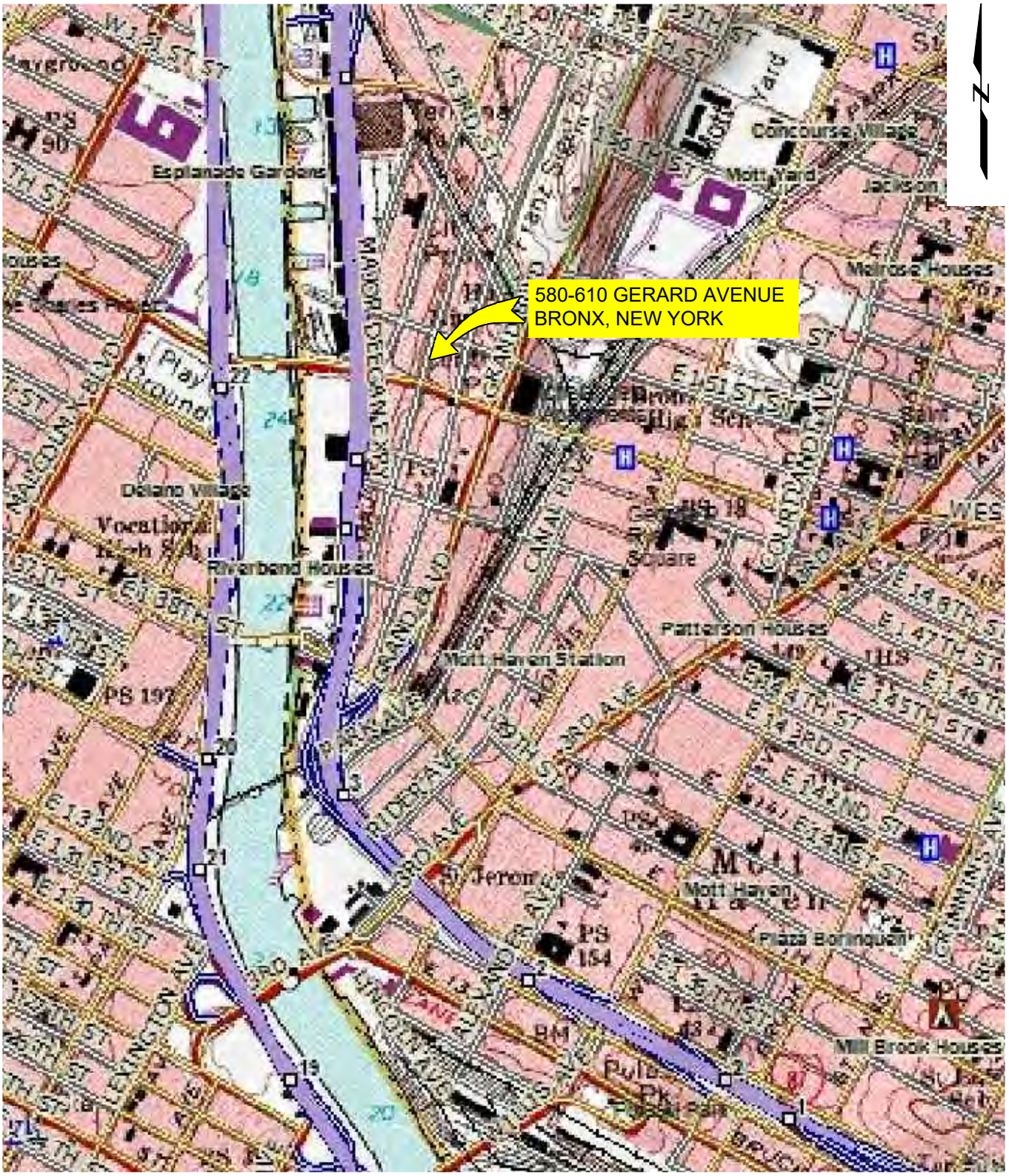
VOCs were detected in soil vapor at predominantly low levels throughout the project Site. No impacts to soil vapor were observed in the areas of the RECs identified in the Phase I ESA. The concentrations are typical of locations where urban fill soil is found in the subsurface soil materials. However, elevated tetrachloroethene was detected in soil vapor sample SV-2. Sample results for tetrachloroethene in groundwater or soil samples both in the vicinity of SV-2, and across the Site as a whole, were either non-detect or two to three orders of magnitude below the UUSCOs, indicating this condition is unlikely to be related to an on-Site source. Based on this detection, soil vapor intrusion would need to be evaluated for any future construction on the Site.

Recommendations

Based upon the above findings, it is GEI's professional opinion that no further investigations/actions are necessary. However, the Site currently has an E-designation (E Number E-292) issued by NYCDEP during the City Environmental Quality Review process. Prior to redevelopment, the Site environmental concerns will need to be addressed through the NYCOER E-Designation Program which typically requires a full subsurface investigation, remedial and health and safety planning, implementation of a remedial program, and documentation that the remedial program was completed under the direction of NYCOER during redevelopment of the property.

As required by the NYCOER E-designation program, prior to redevelopment, a Remedial Action Work Plan (RAWP) would be prepared and a remedy will be selected based on the remedial investigation results in conjunction with the proposed redevelopment to address the soil, soil vapor, and groundwater impacts that are present on the Site. Any soil/fill material removed from the Site will require appropriate characterization and disposal at permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal of such material.

Figures



0 1000 2000

SCALE: 1" = 1000'

SOURCE:

USGS CENTRAL PARK QUADRANGLE MAP

REMEDIAL INVESTIGATION REPORT 580-610 GERARD AVENUE BRONX, NEW YORK	GEI Consultants	SITE LOCATION MAP
HUNTON ANDREWS KURTH, LLP. RICHMOND, VIRGINIA	Project 1803080	September 2018 Fig. 1

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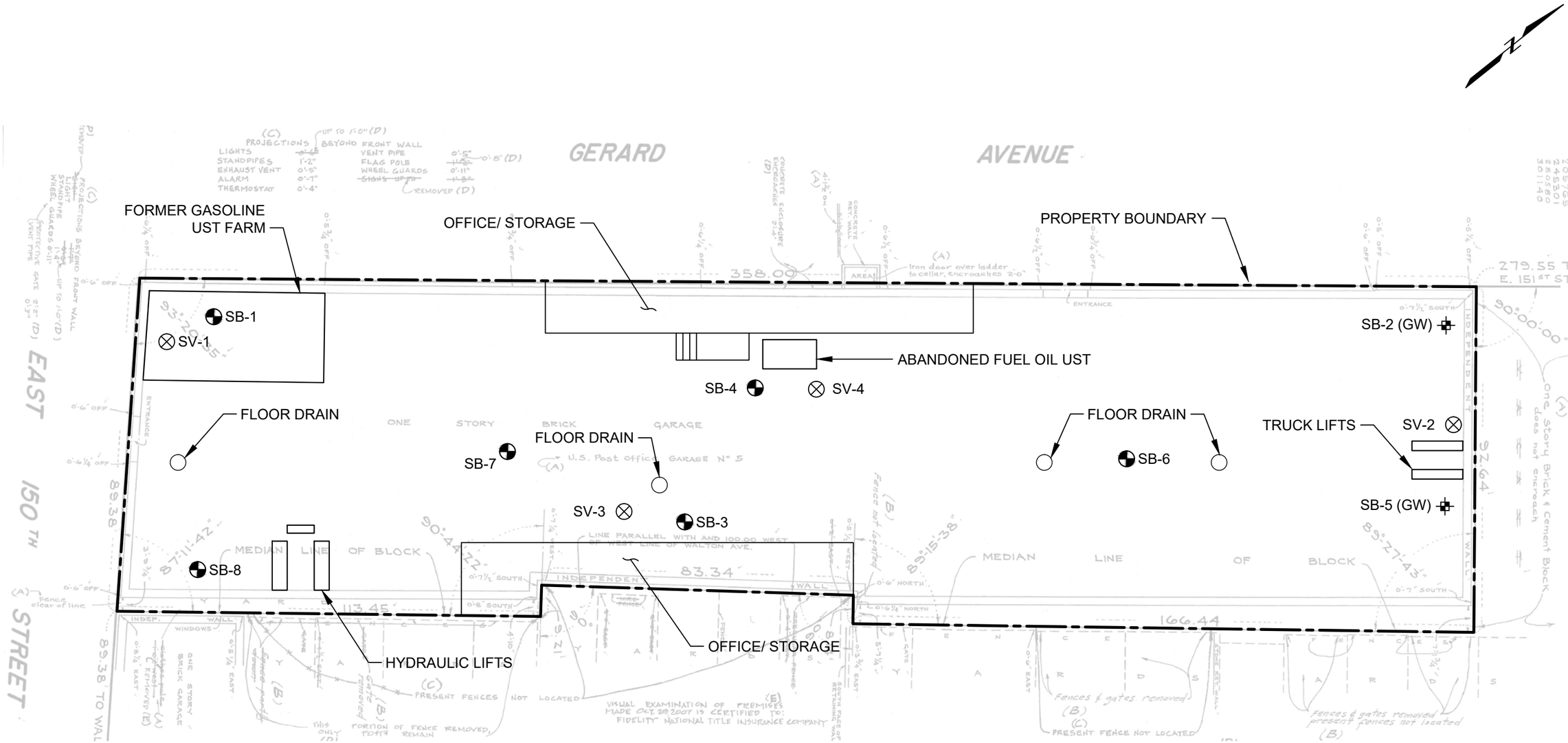

LEGEND

- SOIL BORING LOCATION
- SOIL VAPOR LOCATION
- SOIL/GROUNDWATER SAMPLE LOCATION

0 30 60

SCALE: 1" = 30'

SOURCE:

1. PLAN BASED ON MAP PREPARED BY EARL B. LOVELL - S.P. BELCHER, INC

PHASE II ENVIRONMENTAL SITE ASSESSMENT 580-610 GERARD AVENUE BRONX, NEW YORK	GEI Consultants	SAMPLE LOCATION MAP
HUNTON ANDREWS KURTH, LLP. RICHMOND, VIRGINIA	Project 1803080	September 2018 Fig. 2

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Sample Name / Depth (ft.)	SB-1 (0'-2') 0-2	SB-1 (21'-23') 21-23
Pesticides (mg/Kg)		
4,4'-DDT	0.00819 D	0.00178 U
Metals (mg/Kg)		
Copper	106	46.1
Lead	398	150
Zinc	375	129
Mercury	0.395	0.457

Sample ID / Sample Depth (ft.)	SB-4 (0'-2') 0-2	SB-4 (17'-19') 17-19
VOCs (mg/kg)		
Acetone	0.0300	0.0740
Metals (mg/gKg)		
Barium	938	29.900
Lead	397	5.460
Zinc	210	38.200
Mercury	0.909	0.0322 U
PCBs (mg/Kg)		
Total PCBs	4.97 D	0.0178

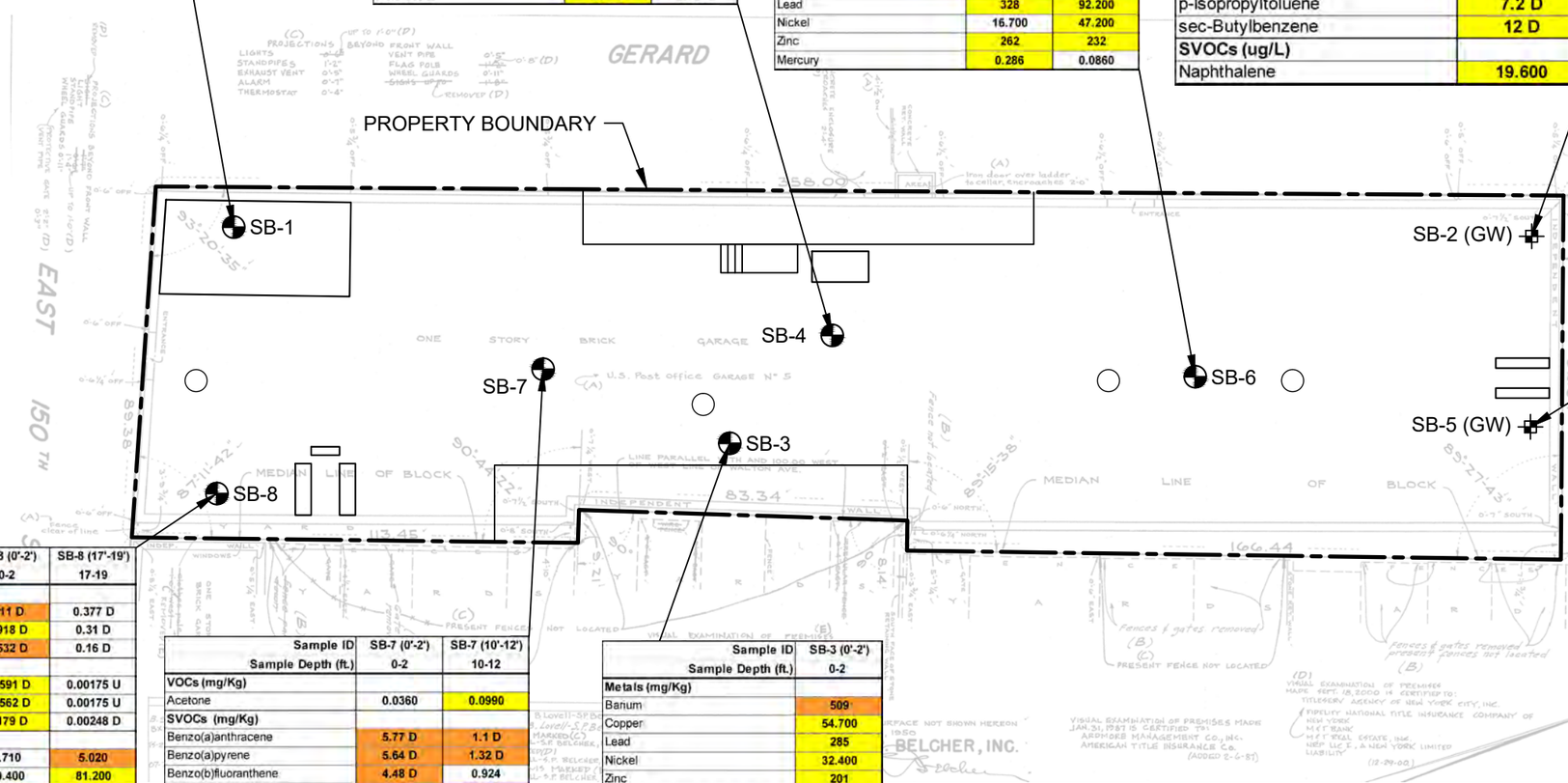
Sample ID / Sample Depth (ft.)	SB-6 (0'-2') 0-2	SB-6 (10'-12') 10-12
VOCs (mg/Kg)		
Acetone	0.110	0.140
SVOCs (mg/Kg)		
Benzo(a)anthracene	1.05 D	0.143 D
Benzo(a)pyrene	1.1 D	0.165 D
Benzo(k)fluoranthene	0.903 D	0.153 D
Chrysene	1.09 D	0.16 D
Indeno(1,2,3-cd)pyrene	0.515 D	0.088 D
Pesticides (mg/Kg)		
4,4'-DDT	0.00469 D	0.00207 D
Metals (mg/Kg)		
Barium	215	879
Lead	328	92.200
Nickel	16.700	47.200
Zinc	262	232
Mercury	0.286	0.0860

Sample ID	SB-2 (GW)
VOCs (ug/L)	
1,2,4-Trimethylbenzene	1200 D
1,3,5-Trimethylbenzene	340 D
Chloroform	10 D
Isopropylbenzene	47 D
n-Butylbenzene	43 D
n-Propylbenzene	110 D
p-Isopropyltoluene	7.2 D
sec-Butylbenzene	12 D
SVOCs (ug/L)	
Naphthalene	19.600

Sample Name / Depth (ft.)	SB-2 (0'-2') 0-2	SB-2 (21'-23') 21-23
SVOCs (mg/Kg)		
Benzo(a)anthracene	1.22 D	0.472 D
Benzo(a)pyrene	1.27 D	0.527 D
Benzo(b)fluoranthene	1.03 D	0.433 D
Benzo(k)fluoranthene	1.09 D	0.467 D
Chrysene	1.27 D	0.467 D
Indeno(1,2,3-cd)pyrene	0.589 D	0.258 D
Pesticides (mg/Kg)		
4,4'-DDT	0.00684 DP	0.0107 D
Metals (mg/Kg)		
Barium	876	495
Lead	109	35.6
Zinc	259	117

Sample ID	SB-5 (GW)
VOCs (ug/L)	
Chloroform	16

Sample ID / Sample Depth (ft.)	SB-5 (0'-2') 0-2	SB-5 (10'-12') 10-12
VOCs (mg/Kg)		
Acetone	0.4	0.170



Sample ID / Sample Depth (ft.)	SB-8 (0'-2') 0-2	SB-8 (17'-19') 17-19
SVOCs (mg/Kg)		
Benzo(a)pyrene	1.11 D	0.377 D
Benzo(k)fluoranthene	0.918 D	0.31 D
Indeno(1,2,3-cd)pyrene	0.532 D	0.16 D
Pesticides (mg/Kg)		
4,4'-DDD	0.0591 D	0.00175 U
4,4'-DDE	0.0562 D	0.00175 U
4,4'-DDT	0.179 D	0.00248 D
Metals (mg/Kg)		
Cadmium	0.710	5.020
Copper	39.400	81.200
Lead	225	273
Zinc	554	2,110
Mercury	1.710	0.780
PCBs (mg/Kg)		
Total PCBs	0.958	0.0176 U

Sample ID / Sample Depth (ft.)	SB-7 (0'-2') 0-2	SB-7 (10'-12') 10-12
VOCs (mg/Kg)		
Acetone	0.0360	0.0990
SVOCs (mg/Kg)		
Benzo(a)anthracene	5.77 D	1.1 D
Benzo(a)pyrene	5.64 D	1.32 D
Benzo(b)fluoranthene	4.48 D	0.924
Benzo(k)fluoranthene	4.59 D	0.928 D
Chrysene	6.09 D	1.21 D
Dibenzo(a,h)anthracene	1.09 D	0.216
Indeno(1,2,3-cd)pyrene	2.84 D	0.538 D
Pesticides (mg/Kg)		
4,4'-DDT	0.0114 D	0.00179 U
Metals (mg/Kg)		
Copper	103	98.600
Lead	358	338
Zinc	253	210
Mercury	0.694	0.583
PCBs (mg/Kg)		
Total PCBs	0.109	0.0181 U

Sample ID / Sample Depth (ft.)	SB-3 (0'-2') 0-2
Metals (mg/Kg)	
Banum	509
Copper	54.700
Lead	285
Nickel	32.400
Zinc	201
Mercury	0.474
PCBs (mg/Kg)	
Total PCBs	9.11 D

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

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

U=analyte not detected at or above the level indicated

B=analyte found in the analysis batch blank

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

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

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

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

Analyte	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential
VOCs (mg/Kg)		
Acetone	0.05	100
SVOCs (mg/Kg)		
Benzo(a)anthracene	1	1
Benzo(a)pyrene	1	1
Benzo(b)fluoranthene	1	1
Benzo(k)fluoranthene	0.8	1
Chrysene	1	1
Dibenzo(a,h)anthracene	0.33	0.33
Indeno(1,2,3-cd)pyrene	0.5	0.5
Pesticides (mg/Kg)		
4,4'-DDD	0.0033	2.6
4,4'-DDE	0.0033	1.8
4,4'-DDT	0.0033	1.7
Metals (mg/kg)		
Barium	350	350
Cadmium	2.5	2.5
Copper	50	270
Lead	63	400
Nickel	30	140
Zinc	109	2200
Mercury	0.18	0.81
PCBs (mg/Kg)		
Total PCBs	0.1	1

0 40 80

SCALE: 1" = 40'

LEGEND

SOIL BORING LOCATION

SOURCE:

1. PLAN BASED ON MAP PREPARED BY EARL B. LOVELL - S.P. BELCHER, INC

PHASE II ENVIRONMENTAL SITE ASSESSMENT
580-610 GERARD AVENUE
BRONX, NEW YORK

HUNTON ANDREWS KURTH, LLP.
RICHMOND, VIRGINIA

GEI Consultants

Project 1803080

SOIL AND GROUNDWATER SAMPLE LOCATION MAP

September 2018

Fig. 3

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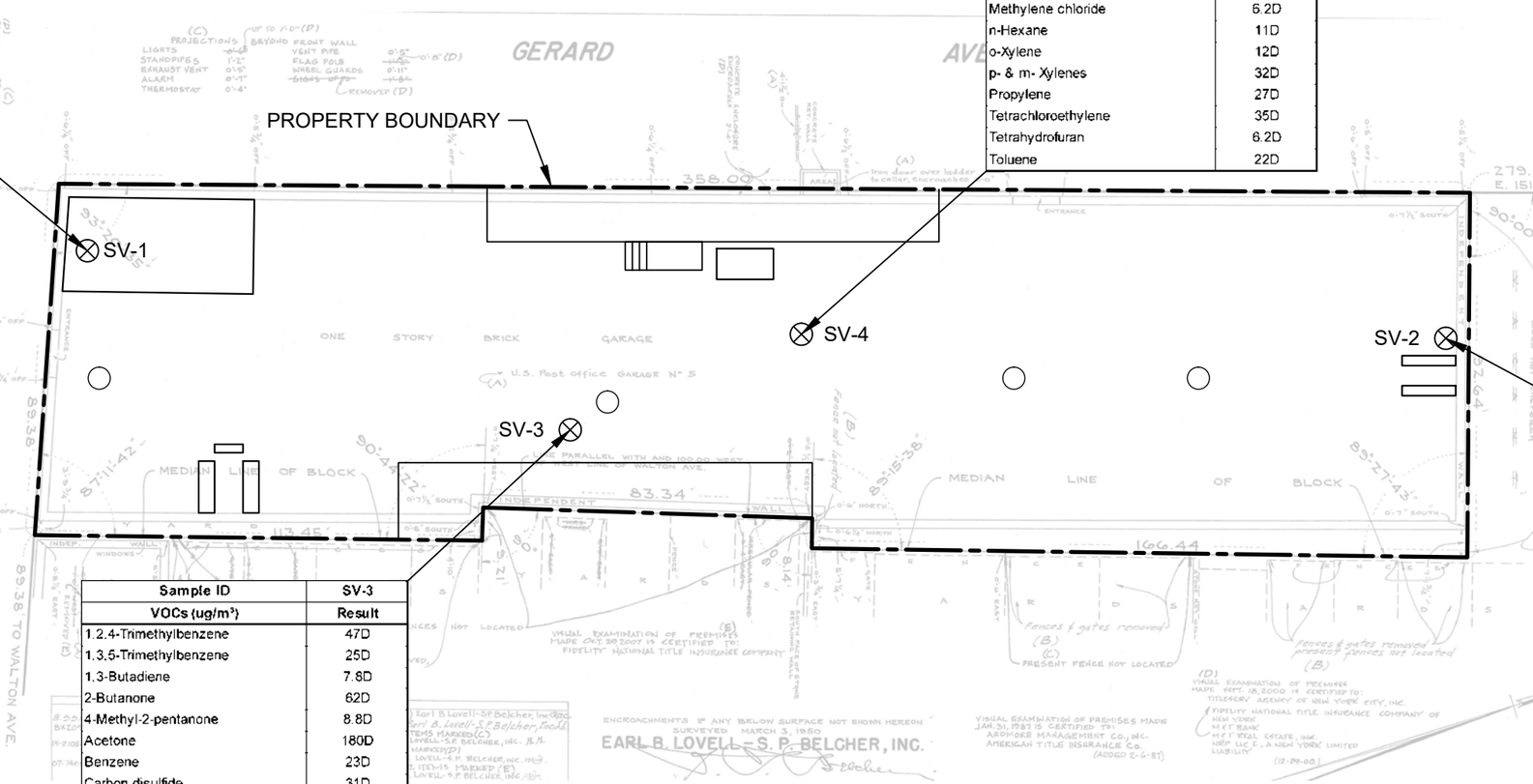

Sample ID	SV-1
VOCs (ug/m³)	Result
1.1.1-Trichloroethane	4.6D
1.2.4-Trimethylbenzene	8.2D
1.3-Butadiene	4.5D
1.3-Dichlorobenzene	7.7D
2-Butanone	120D
4-Methyl-2-pentanone	8D
Acetone	660D
Benzene	7.6D
Cyclohexane	7.2D
Ethyl Benzene	7.5D
Isopropanol	140D
n-Heptane	21D
n-Hexane	11D
o-Xylene	11D
p- & m- Xylenes	30D
Propylene	28D
Tetrachloroethylene	56D
Tetrahydrofuran	16D
Toluene	26D

Sample ID	SV-3
VOCs (ug/m³)	Result
1.2.4-Trimethylbenzene	47D
1.3.5-Trimethylbenzene	25D
1.3-Butadiene	7.8D
2-Butanone	62D
4-Methyl-2-pentanone	8.8D
Acetone	180D
Benzene	23D
Carbon disulfide	31D
Chloroform	4.5D
Chloromethane	3.3D
Cyclohexane	46D
Ethyl Benzene	22D
Isopropanol	60D
Methyl tert-butyl ether (MTBE)	8.4D
Methylene chloride	6.9D
n-Heptane	120D
n-Hexane	75D
o-Xylene	28D
p- & m- Xylenes	73D
p-Ethyltoluene	29D
Propylene	130DE
Tetrachloroethylene	44D
Tetrahydrofuran	22D
Toluene	47D

Sample ID	SV-4
VOCs (ug/m³)	Result
1.2.4-Trimethylbenzene	12D
2-Butanone	25D
4-Methyl-2-pentanone	3.5D
Acetone	110D
Benzene	3.1D
Carbon disulfide	43D
Chloromethane	1.9D
Cyclohexane	11D
Ethyl Benzene	8.2D
Isopropanol	47D
Methylene chloride	6.2D
n-Hexane	11D
o-Xylene	12D
p- & m- Xylenes	32D
Propylene	27D
Tetrachloroethylene	35D
Tetrahydrofuran	6.2D
Toluene	22D

Sample ID	SV-2
VOCs (ug/m³)	Result
1.2.4-Trimethylbenzene	10D
2-Butanone	26D
Acetone	150D
Benzene	4.4D
Carbon disulfide	12D
Chloromethane	1.6D
Cyclohexane	3.7D
Ethyl Benzene	7.9D
Isopropanol	67D
Methylene chloride	37D
n-Hexane	8.4D
o-Xylene	11D
p- & m- Xylenes	31D
Propylene	15D
Tetrachloroethylene	460D
Tetrahydrofuran	5.6D
Toluene	18D

Note
D=result is from an analysis that required a dilution

0 40 80
SCALE: 1" = 40'

LEGEND
⊗ SOIL VAPOR LOCATION

SOURCE:
1. PLAN BASED ON MAP PREPARED BY EARL B. LOVELL - S.P. BELCHER, INC

PHASE II ENVIRONMENTAL SITE ASSESSMENT
580-610 GERARD AVENUE
BRONX, NEW YORK

HUNTON ANDREWS KURTH, LLP.
RICHMOND, VIRGINIA

GEI Consultants

SOIL VAPOR SAMPLE LOCATION MAP

Project 1803080 | September 2018 | Fig. 4

\\hts1v-fs01\ \\hts1v-fs01\data\Tech\Environmental Projects\EMMES Asset Management Co LTD LLC\CAD\Figures\1803080 - Fig 4.dwg - 8/30/2018

Tables

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	SB-1 (0'-2') 8/10/2018 Soil		SB-1 (21'-23') 8/10/2018 Soil		SB-2 (0'-2') 8/10/2018 Soil		SB-2 (21'-23') 8/10/2018 Soil		SB-3 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Volatile Organics, 8260 - Comprehensive	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
1,1,1,2-Tetrachloroethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,1,1-Trichloroethane	0.68	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,1,2,2-Tetrachloroethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,1,2-Trichloroethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,1-Dichloroethane	0.27	19	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,1-Dichloroethylene	0.33	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,2,3-Trichlorobenzene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,2,3-Trichloropropane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,2,4-Trichlorobenzene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,2,4-Trimethylbenzene	3.6	47	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.022	
1,2-Dibromo-3-chloropropane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,2-Dibromoethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,2-Dichlorobenzene	1.1	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,2-Dichloroethane	0.02	2.3	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,2-Dichloropropane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,3,5-Trimethylbenzene	8.4	47	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0096	
1,3-Dichlorobenzene	2.4	17	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,4-Dichlorobenzene	1.8	9.8	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,4-Dioxane	0.1	9.8	0.055	U	0.0540	U	0.0520	U	0.051	U	0.054	U
2-Butanone	0.12	100	0.0028	U	0.0027	U	0.0026	U	0.0040	J	0.0027	U
2-Hexanone	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
4-Methyl-2-pentanone	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Acetone	0.05	100	0.0083	J	0.023		0.035		0.031		0.041	
Acrolein	~	~	0.0055	U	0.0054	U	0.0052	U	0.0051	U	0.0054	U
Acrylonitrile	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Benzene	0.06	2.9	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Bromochloromethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Bromodichloromethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Bromoform	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Bromomethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Carbon disulfide	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Carbon tetrachloride	0.76	1.4	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Chlorobenzene	1.1	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Chloroethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Chloroform	0.37	10	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Chloromethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
cis-1,2-Dichloroethylene	0.25	59	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
cis-1,3-Dichloropropylene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Cyclohexane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Dibromochloromethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Dibromomethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Dichlorodifluoromethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Ethyl Benzene	1	30	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0034	J
Hexachlorobutadiene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	SB-1 (0'-2') 8/10/2018 Soil		SB-1 (21'-23') 8/10/2018 Soil		SB-2 (0'-2') 8/10/2018 Soil		SB-2 (21'-23') 8/10/2018 Soil		SB-3 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Isopropylbenzene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Methyl acetate	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Methyl tert-butyl ether (MTBE)	0.93	62	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Methylcyclohexane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Methylene chloride	0.05	51	0.0055	U	0.0054	U	0.0052	U	0.0051	U	0.0054	U
n-Butylbenzene	12	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
n-Propylbenzene	3.9	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
o-Xylene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0075	
p- & m- Xylenes	~	~	0.0055	U	0.0054	U	0.0052	U	0.0051	U	0.0140	
p-Isopropyltoluene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
sec-Butylbenzene	11	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Styrene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
tert-Butyl alcohol (TBA)	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0072	
tert-Butylbenzene	5.9	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Tetrachloroethylene	1.3	5.5	0.0077		0.0027	U	0.0065		0.0074		0.0027	U
Toluene	0.7	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0062	
trans-1,2-Dichloroethylene	0.19	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
trans-1,3-Dichloropropylene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
trans-1,4-dichloro-2-butene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Trichloroethylene	0.47	10	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Trichlorofluoromethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Vinyl Chloride	0.02	0.21	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Xylenes, Total	0.26	100	0.0083	U	0.0081	U	0.0078	U	0.0077	U	0.022	
Semi-Volatiles, 8270 - Comprehensive	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			2		2		2		2		2	
1,1-Biphenyl	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
1,2,4,5-Tetrachlorobenzene	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
1,2,4-Trichlorobenzene	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
1,2-Dichlorobenzene	1.1	100	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
1,2-Diphenylhydrazine (as Azobenzene)	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
1,3-Dichlorobenzene	2.4	17	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
1,4-Dichlorobenzene	1.8	9.8	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2,3,4,6-Tetrachlorophenol	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
2,4,5-Trichlorophenol	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2,4,6-Trichlorophenol	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2,4-Dichlorophenol	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2,4-Dimethylphenol	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2,4-Dinitrophenol	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
2,4-Dinitrotoluene	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2,6-Dinitrotoluene	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2-Chloronaphthalene	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2-Chlorophenol	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2-Methylnaphthalene	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2-Methylphenol	0.33	100	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2-Nitroaniline	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
2-Nitrophenol	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
3- & 4-Methylphenols	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U

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Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
3,3-Dichlorobenzidine	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
3-Nitroaniline	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
4,6-Dinitro-2-methylphenol	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
4-Bromophenyl phenyl ether	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
4-Chloro-3-methylphenol	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
4-Chloroaniline	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
4-Chlorophenyl phenyl ether	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
4-Nitroaniline	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
4-Nitrophenol	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
Acenaphthene	20	100	0.0590	JD	0.0451	U	0.215	D	0.0427	U	0.0454	U
Acenaphthylene	100	100	0.112	D	0.0451	U	0.0739	JD	0.114	D	0.0454	U
Acetophenone	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Aniline	~	~	0.185	U	0.180	U	0.173	U	0.171	U	0.182	U
Anthracene	100	100	0.171	D	0.0451	U	0.366	D	0.116	D	0.0454	U
Atrazine	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Benzaldehyde	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Benzidine	~	~	0.185	U	0.180	U	0.173	U	0.171	U	0.182	U
Benzo(a)anthracene	1	1	0.692	D	0.131	D	**1.22**	D	0.472	D	0.108	D
Benzo(a)pyrene	1	1	0.824	D	0.173	D	**1.27**	D	0.527	D	0.159	D
Benzo(b)fluoranthene	1	1	0.659	D	0.137	D	**1.03**	D	0.433	D	0.160	D
Benzo(g,h,i)perylene	100	100	0.433	D	0.152	D	0.600	D	0.269	D	0.147	D
Benzo(k)fluoranthene	0.8	1	0.703	D	0.129	D	**1.09**	D	0.467	D	0.125	D
Benzoic acid	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Benzyl alcohol	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Benzyl butyl phthalate	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0522	JD
Bis(2-chloroethoxy)methane	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Bis(2-chloroethyl)ether	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Bis(2-chloroisopropyl)ether	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Bis(2-ethylhexyl)phthalate	~	~	0.0664	JD	0.0451	U	0.0497	JD	0.290	D	0.0454	U
Caprolactam	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
Carbazole	~	~	0.0561	JD	0.0451	U	0.155	D	0.0427	U	0.0454	U
Chrysene	1	1	0.739	D	0.147	D	**1.27**	D	0.467	D	0.129	D
Dibenzo(a,h)anthracene	0.33	0.33	0.161	D	0.0451	U	0.222	D	0.0988	D	0.0454	U
Dibenzofuran	7	14	0.0463	U	0.0451	U	0.0794	JD	0.0427	U	0.0454	U
Diethyl phthalate	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Dimethyl phthalate	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Di-n-butyl phthalate	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Di-n-octyl phthalate	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Fluoranthene	100	100	1.360	D	0.234	D	2.370	D	0.929	D	0.116	D
Fluorene	30	100	0.0480	JD	0.0451	U	0.116	D	0.0427	U	0.0454	U
Hexachlorobenzene	0.33	0.33	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Hexachlorobutadiene	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Hexachlorocyclopentadiene	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Hexachloroethane	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.370	D	0.0920	D	**0.589**	D	0.258	D	0.125	D
Isophorone	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Naphthalene	12	100	0.0463	U	0.0451	U	0.0829	JD	0.0427	U	0.0454	U

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Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Nitrobenzene	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
N-Nitrosodimethylamine	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
N-nitroso-di-n-propylamine	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
N-Nitrosodiphenylamine	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Pentachlorophenol	0.8	2.4	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Phenanthrene	100	100	0.624	D	0.119	D	1.520	D	0.515	D	0.0486	JD
Phenol	0.33	100	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Pyrene	100	100	1.160	D	0.220	D	2	D	0.840	D	0.112	D
Pesticides, 8081 target list	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			5		5		5		5		5	
4,4'-DDD	0.0033	2.6	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
4,4'-DDE	0.0033	1.8	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
4,4'-DDT	0.0033	1.7	**0.00819**	D	0.00178	U	**0.00684**	DP	**0.0107**	D	0.00178	U
Aldrin	0.005	0.019	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
alpha-BHC	0.02	0.097	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
alpha-Chlordane	0.094	0.91	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
beta-BHC	0.036	0.072	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
Chlordane, total	~	~	0.0365	U	0.0356	U	0.0340	U	0.0337	U	0.0357	U
delta-BHC	0.04	100	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
Dieldrin	0.005	0.039	0.00239	D	0.00178	U	0.00261	D	0.00411	DP	0.00178	U
Endosulfan I	2.4	4.8	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
Endosulfan II	2.4	4.8	0.00183	U	0.00178	U	0.00170	U	0.00364	DP	0.00178	U
Endosulfan sulfate	2.4	4.8	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
Endrin	0.014	2.2	0.00514	D	0.00178	U	0.00348	D	0.00923	D	0.00178	U
Endrin aldehyde	~	~	0.00230	D	0.00178	U	0.00217	D	0.00355	D	0.00178	U
Endrin ketone	~	~	0.00660	DP	0.00178	U	0.00170	U	0.0128	DP	0.00178	U
gamma-BHC (Lindane)	0.1	0.28	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
gamma-Chlordane	~	~	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
Heptachlor	0.042	0.42	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
Heptachlor epoxide	~	~	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
Methoxychlor	~	~	0.00913	U	0.00890	U	0.00849	U	0.00842	U	0.00892	U
Toxaphene	~	~	0.0924	U	0.0901	U	0.0860	U	0.0852	U	0.0903	U
Metals, Target Analyte	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
Aluminum	~	~	7,690		11,700		9,310		15,300		16,900	
Antimony	~	~	3.370	B	2.180	B	1.550	B	2.880	B	3.590	B
Arsenic	13	16	7.140		4.200		4.570		4.790		5.570	
Barium	350	350	253		162		**875**		**495**		**509**	
Beryllium	7.2	14	0.138		0.108	U	0.104	U	0.102	U	0.109	U
Cadmium	2.5	2.5	0.713		0.324	U	0.399		0.344		0.659	
Calcium	~	~	15,400		15,300		8,150		6,910		12,600	
Chromium	~	~	19.400		23		17.700		43.800		41.700	
Cobalt	~	~	7.950		14.200		7.610		14.500		17.500	
Copper	50	270	**106**		46.100		29.800		27.200		**54.7**	
Iron	~	~	17,900		24,300		14,700		29,300		31600	
Lead	63	400	**398**		**150**		**109**		35.600		**285**	
Magnesium	~	~	4,150		7,310		3,900		7,500		9,970	

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	SB-1 (0'-2') 8/10/2018 Soil		SB-1 (21'-23') 8/10/2018 Soil		SB-2 (0'-2') 8/10/2018 Soil		SB-2 (21'-23') 8/10/2018 Soil		SB-3 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Manganese	1600	2000	348		359		294		408		362	
Nickel	30	140	22.100		24		15.500		23.700		**32.4**	
Potassium	~	~	1,720	B	3,890	B	1,860	B	8,780	B	8,690	B
Selenium	3.9	36	1.110	U	1.080	U	1.040	U	1.020	U	1.090	U
Silver	2	36	0.554	U	0.541	U	0.518	U	0.511	U	0.544	U
Sodium	~	~	339	B	200	B	169	B	195	B	319	B
Thallium	~	~	1.110	U	1.080	U	1.040	U	1.020	U	1.090	U
Vanadium	~	~	22.900		31.300		21.600		46.700		47.500	
Zinc	109	2200	**375**		**129**		**259**		**117**		**201**	
Mercury by 7473	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
Mercury	0.18	0.81	**0.395**		**0.457**		0.171		0.0959		**0.474**	
Total Solids			%		%		%		%		%	
Dilution Factor			1		1		1		1		1	
% Solids	~	~	90.3		92.5		96.6		97.8		92	
Polychlorinated Biphenyls (PCB)	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		10	
Aroclor 1016	~	~	0.0184	U	0.018	U	0.0172	U	0.017	U	0.18	U
Aroclor 1221	~	~	0.0184	U	0.018	U	0.0172	U	0.017	U	0.18	U
Aroclor 1232	~	~	0.0184	U	0.018	U	0.0172	U	0.017	U	0.18	U
Aroclor 1242	~	~	0.0184	U	0.018	U	0.0172	U	0.017	U	0.18	U
Aroclor 1248	~	~	0.0184	U	0.018	U	0.0172	U	0.017	U	0.18	U
Aroclor 1254	~	~	0.0184	U	0.018	U	0.0172	U	0.017	U	7.69	D
Aroclor 1260	~	~	0.0184	U	0.018	U	0.0342		0.0499		1.41	D
Total PCBs	0.1	1	0.0184	U	0.018	U	0.0342		0.0499		**9.11**	D

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Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
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Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	SB-4 (0'-2') 8/10/2018 Soil		SB-4 (17'-19') 8/10/2018 Soil		SB-5 (0'-2') 8/10/2018 Soil		SB-5 (10'-12') 8/10/2018 Soil		SB-6 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Volatile Organics, 8260 - Comprehensive	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
1,1,1,2-Tetrachloroethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,1,1-Trichloroethane	0.68	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,1,2,2-Tetrachloroethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,1,2-Trichloroethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,1-Dichloroethane	0.27	19	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,1-Dichloroethylene	0.33	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2,3-Trichlorobenzene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2,3-Trichloropropane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2,4-Trichlorobenzene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2,4-Trimethylbenzene	3.6	47	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2-Dibromo-3-chloropropane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2-Dibromoethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2-Dichlorobenzene	1.1	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2-Dichloroethane	0.02	2.3	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2-Dichloropropane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,3,5-Trimethylbenzene	8.4	47	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,3-Dichlorobenzene	2.4	17	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,4-Dichlorobenzene	1.8	9.8	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,4-Dioxane	0.1	9.8	0.06	U	0.054	U	0.052	U	0.064	U	0.055	U
2-Butanone	0.12	100	0.003	U	0.0027	U	0.0026	U	0.011		0.0031	J
2-Hexanone	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
4-Methyl-2-pentanone	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Acetone	0.05	100	0.03		**0.074**		0.040		**0.17**		**0.11**	
Acrolein	~	~	0.006	U	0.0054	U	0.0052	U	0.0064	U	0.0055	U
Acrylonitrile	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Benzene	0.06	2.9	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0031	J
Bromochloromethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Bromodichloromethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Bromoform	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Bromomethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Carbon disulfide	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Carbon tetrachloride	0.76	1.4	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Chlorobenzene	1.1	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Chloroethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Chloroform	0.37	10	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Chloromethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
cis-1,2-Dichloroethylene	0.25	59	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
cis-1,3-Dichloropropylene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Cyclohexane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Dibromochloromethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Dibromomethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Dichlorodifluoromethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Ethyl Benzene	1	30	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Hexachlorobutadiene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	SB-4 (0'-2') 8/10/2018 Soil		SB-4 (17'-19') 8/10/2018 Soil		SB-5 (0'-2') 8/10/2018 Soil		SB-5 (10'-12') 8/10/2018 Soil		SB-6 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Isopropylbenzene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Methyl acetate	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Methyl tert-butyl ether (MTBE)	0.93	62	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Methylcyclohexane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Methylene chloride	0.05	51	0.006	U	0.0054	U	0.0052	U	0.012	J	0.0055	U
n-Butylbenzene	12	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
n-Propylbenzene	3.9	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
o-Xylene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
p- & m- Xylenes	~	~	0.006	U	0.0054	U	0.0052	U	0.0064	U	0.0055	U
p-Isopropyltoluene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
sec-Butylbenzene	11	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Styrene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
tert-Butyl alcohol (TBA)	~	~	0.011		0.014		0.0026	U	0.14		0.017	
tert-Butylbenzene	5.9	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Tetrachloroethylene	1.3	5.5	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Toluene	0.7	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
trans-1,2-Dichloroethylene	0.19	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
trans-1,3-Dichloropropylene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
trans-1,4-dichloro-2-butene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Trichloroethylene	0.47	10	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Trichlorofluoromethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Vinyl Chloride	0.02	0.21	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Xylenes, Total	0.26	100	0.009	U	0.008	U	0.0078	U	0.0097	U	0.0083	U
Semi-Volatiles, 8270 - Comprehensive	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			2		2		2		2		2	
1,1-Biphenyl	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
1,2,4,5-Tetrachlorobenzene	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
1,2,4-Trichlorobenzene	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
1,2-Dichlorobenzene	1.1	100	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
1,2-Diphenylhydrazine (as Azobenzene)	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
1,3-Dichlorobenzene	2.4	17	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
1,4-Dichlorobenzene	1.8	9.8	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2,3,4,6-Tetrachlorophenol	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
2,4,5-Trichlorophenol	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2,4,6-Trichlorophenol	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2,4-Dichlorophenol	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2,4-Dimethylphenol	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2,4-Dinitrophenol	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
2,4-Dinitrotoluene	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2,6-Dinitrotoluene	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2-Chloronaphthalene	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2-Chlorophenol	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2-Methylnaphthalene	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2-Methylphenol	0.33	100	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2-Nitroaniline	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
2-Nitrophenol	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
3- & 4-Methylphenols	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	SB-4 (0'-2') 8/10/2018 Soil		SB-4 (17'-19') 8/10/2018 Soil		SB-5 (0'-2') 8/10/2018 Soil		SB-5 (10'-12') 8/10/2018 Soil		SB-6 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
3,3-Dichlorobenzidine	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
3-Nitroaniline	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
4,6-Dinitro-2-methylphenol	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
4-Bromophenyl phenyl ether	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
4-Chloro-3-methylphenol	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
4-Chloroaniline	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
4-Chlorophenyl phenyl ether	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
4-Nitroaniline	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
4-Nitrophenol	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
Acenaphthene	20	100	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.179	D
Acenaphthylene	100	100	0.0725	JD	0.0448	U	0.0436	U	0.0538	U	0.0706	JD
Acetophenone	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Aniline	~	~	0.200	U	0.179	U	0.174	U	0.215	U	0.184	U
Anthracene	100	100	0.169	D	0.0448	U	0.0494	JD	0.0538	U	0.451	D
Atrazine	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Benzaldehyde	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Benzidine	~	~	0.200	U	0.179	U	0.174	U	0.215	U	0.184	U
Benzo(a)anthracene	1	1	0.504	D	0.0448	U	0.135	D	0.0538	U	**1.05**	D
Benzo(a)pyrene	1	1	0.560	D	0.0448	U	0.129	D	0.0538	U	**1.1**	D
Benzo(b)fluoranthene	1	1	0.469	D	0.0448	U	0.113	D	0.0538	U	0.886	D
Benzo(g,h,i)perylene	100	100	0.318	D	0.0448	U	0.0724	JD	0.0538	U	0.562	D
Benzo(k)fluoranthene	0.8	1	0.484	D	0.0448	U	0.117	D	0.0538	U	**0.903**	D
Benzoic acid	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Benzyl alcohol	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Benzyl butyl phthalate	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Bis(2-chloroethoxy)methane	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Bis(2-chloroethyl)ether	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Bis(2-chloroisopropyl)ether	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Bis(2-ethylhexyl)phthalate	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Caprolactam	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
Carbazole	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.128	D
Chrysene	1	1	0.523	D	0.0448	U	0.143	D	0.0538	U	**1.09**	D
Dibenzo(a,h)anthracene	0.33	0.33	0.104	D	0.0448	U	0.0436	U	0.0538	U	0.200	D
Dibenzofuran	7	14	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0757	JD
Diethyl phthalate	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Dimethyl phthalate	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Di-n-butyl phthalate	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Di-n-octyl phthalate	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Fluoranthene	100	100	0.980	D	0.0448	U	0.336	D	0.0867	JD	2.62	D
Fluorene	30	100	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.148	D
Hexachlorobenzene	0.33	0.33	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Hexachlorobutadiene	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Hexachlorocyclopentadiene	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Hexachloroethane	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.269	D	0.0448	U	0.0654	JD	0.0538	U	**0.515**	D
Isophorone	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Naphthalene	12	100	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
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Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	SB-4 (0'-2') 8/10/2018 Soil		SB-4 (17'-19') 8/10/2018 Soil		SB-5 (0'-2') 8/10/2018 Soil		SB-5 (10'-12') 8/10/2018 Soil		SB-6 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Nitrobenzene	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
N-Nitrosodimethylamine	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
N-nitroso-di-n-propylamine	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
N-Nitrosodiphenylamine	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Pentachlorophenol	0.8	2.4	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Phenanthrene	100	100	0.561	D	0.0448	U	0.275	D	0.0635	JD	1.980	D
Phenol	0.33	100	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Pyrene	100	100	0.889	D	0.0448	U	0.276	D	0.0773	JD	2.200	D
Pesticides, 8081 target list	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			5		5		5		5		5	
4,4'-DDD	0.0033	2.6	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
4,4'-DDE	0.0033	1.8	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
4,4'-DDT	0.0033	1.7	0.00198	U	0.00176	U	0.00171	U	0.00212	U	**0.00469**	D
Aldrin	0.005	0.019	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
alpha-BHC	0.02	0.097	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
alpha-Chlordane	0.094	0.91	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
beta-BHC	0.036	0.072	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
Chlordane, total	~	~	0.0396	U	0.0352	U	0.0343	U	0.0425	U	0.0362	U
delta-BHC	0.04	100	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
Dieldrin	0.005	0.039	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00242	D
Endosulfan I	2.4	4.8	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
Endosulfan II	2.4	4.8	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
Endosulfan sulfate	2.4	4.8	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
Endrin	0.014	2.2	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00372	D
Endrin aldehyde	~	~	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00203	D
Endrin ketone	~	~	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
gamma-BHC (Lindane)	0.1	0.28	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
gamma-Chlordane	~	~	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
Heptachlor	0.042	0.42	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
Heptachlor epoxide	~	~	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
Methoxychlor	~	~	0.00989	U	0.00880	U	0.00857	U	0.0106	U	0.00904	U
Toxaphene	~	~	0.100	U	0.0891	U	0.0868	U	0.107	U	0.0915	U
Metals, Target Analyte	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
Aluminum	~	~	10,400		7,140		7,860		8,570	B	8,850	B
Antimony	~	~	1.300	B	0.536	U	0.522	U	1.940		1.640	
Arsenic	13	16	5.460		1.550		1.770		3.800		4.790	
Barium	350	350	**938**		29.900		57.300		62.100		215	
Beryllium	7.2	14	0.120	U	0.212		0.184		0.129	U	0.110	U
Cadmium	2.5	2.5	0.384		0.322	U	0.313	U	0.386	U	0.753	
Calcium	~	~	14,600		851		1,920		10,000		10,200	
Chromium	~	~	23.900		10.7		13.3		20.4		17	
Cobalt	~	~	10.300		6.060		4.830		6.370		7.6	
Copper	50	270	41.400		11.500		11.700		13.100		46.8	
Iron	~	~	18,400		13,700		11,100		13,800		14,600	
Lead	63	400	**397**		5.460		59.100		18.200		**328**	
Magnesium	~	~	4,690		2,820		2,870		3,020		3,340	

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
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Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	SB-4 (0'-2') 8/10/2018 Soil		SB-4 (17'-19') 8/10/2018 Soil		SB-5 (0'-2') 8/10/2018 Soil		SB-5 (10'-12') 8/10/2018 Soil		SB-6 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Manganese	1600	2000	293		257		289		377		240	
Nickel	30	140	19.500		12.8		11		15.600		16.700	
Potassium	~	~	2,480	B	1,040	B	1,110	B	1,700		1,460	
Selenium	3.9	36	1.200	U	1.070	U	1.040	U	1.290	U	1.1	U
Silver	2	36	0.600	U	0.536	U	0.522	U	0.644	U	0.551	U
Sodium	~	~	387	B	96.8	B	170	B	348	B	311	B
Thallium	~	~	1.200	U	1.07	U	1.040	U	1.290	U	1.100	U
Vanadium	~	~	29.200		13.9		15.4		18.6		19.9	
Zinc	109	2200	**210**		38.2		87.3		47.4		**262**	
Mercury by 7473	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
Mercury	0.18	0.81	**0.909**		0.0322	U	0.0873		0.0386	U	**0.286**	
Total Solids			%		%		%		%		%	
Dilution Factor			1		1		1		1		1	
% Solids	~	~	83.4		93.2		95.8		77.6		90.7	
Polychlorinated Biphenyls (PCB)	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			10		1		1		1		1	
Aroclor 1016	~	~	0.2	U	0.0178	U	0.0173	U	0.0214	U	0.0183	U
Aroclor 1221	~	~	0.2	U	0.0178	U	0.0173	U	0.0214	U	0.0183	U
Aroclor 1232	~	~	0.2	U	0.0178	U	0.0173	U	0.0214	U	0.0183	U
Aroclor 1242	~	~	0.2	U	0.0178	U	0.0173	U	0.0214	U	0.0183	U
Aroclor 1248	~	~	0.2	U	0.0178	U	0.0173	U	0.0214	U	0.0183	U
Aroclor 1254	~	~	1.84	D	0.0178	U	0.0173	U	0.0214	U	0.0183	U
Aroclor 1260	~	~	3.13	D	0.0178	U	0.0173	U	0.0214	U	0.0302	
Total PCBs	0.1	1	**4.97**	D	0.0178	U	0.0173	U	0.0214	U	0.0302	

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Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Volatile Organics, 8260 - Comprehensive	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
1,1,1,2-Tetrachloroethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,1,1-Trichloroethane	0.68	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,1,2,2-Tetrachloroethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,1,2-Trichloroethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,1-Dichloroethane	0.27	19	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,1-Dichloroethylene	0.33	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2,3-Trichlorobenzene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2,3-Trichloropropane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2,4-Trichlorobenzene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2,4-Trimethylbenzene	3.6	47	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2-Dibromo-3-chloropropane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2-Dibromoethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2-Dichlorobenzene	1.1	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2-Dichloroethane	0.02	2.3	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2-Dichloropropane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,3,5-Trimethylbenzene	8.4	47	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,3-Dichlorobenzene	2.4	17	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,4-Dichlorobenzene	1.8	9.8	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,4-Dioxane	0.1	9.8	0.063	U	0.054	U	0.055	U	0.055	U	0.053	U
2-Butanone	0.12	100	0.021		0.0027	U	0.009		0.0027	U	0.0039	J
2-Hexanone	~	~	0.0031	U	0.0027	U	0.003	U	0.0027	U	0.0027	U
4-Methyl-2-pentanone	~	~	0.0031	U	0.0027	U	0.003	U	0.0027	U	0.0027	U
Acetone	0.05	100	**0.14**		0.036		**0.099**		0.019		0.027	
Acrolein	~	~	0.0063	U	0.0054	U	0.0055	U	0.0055	U	0.0053	U
Acrylonitrile	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Benzene	0.06	2.9	0.0031	U	0.0027	U	0.0029	J	0.0027	U	0.0027	U
Bromochloromethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Bromodichloromethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Bromoform	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Bromomethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Carbon disulfide	~	~	0.0031	U	0.0027	U	0.0039	J	0.0027	U	0.0027	U
Carbon tetrachloride	0.76	1.4	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Chlorobenzene	1.1	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Chloroethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Chloroform	0.37	10	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Chloromethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
cis-1,2-Dichloroethylene	0.25	59	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
cis-1,3-Dichloropropylene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Cyclohexane	~	~	0.0031	U	0.0027	U	0.023		0.0027	U	0.0027	U
Dibromochloromethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Dibromomethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Dichlorodifluoromethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Ethyl Benzene	1	30	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Hexachlorobutadiene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U

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Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	SB-6 (10'-12') 8/10/2018 Soil		SB-7 (0'-2') 8/10/2018 Soil		SB-7 (10'-12') 8/10/2018 Soil		SB-8 (0'-2') 8/10/2018 Soil		SB-8 (17'-19') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Isopropylbenzene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Methyl acetate	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Methyl tert-butyl ether (MTBE)	0.93	62	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Methylcyclohexane	~	~	0.0031	U	0.0027	U	0.058		0.0027	U	0.0027	U
Methylene chloride	0.05	51	0.0063	U	0.0054	U	0.0055	U	0.0079	J	0.0053	U
n-Butylbenzene	12	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
n-Propylbenzene	3.9	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
o-Xylene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
p- & m- Xylenes	~	~	0.0063	U	0.0054	U	0.0055	U	0.0055	U	0.0053	U
p-Isopropyltoluene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
sec-Butylbenzene	11	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Styrene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
tert-Butyl alcohol (TBA)	~	~	0.01		0.0065		0.01		0.0027	U	0.0027	U
tert-Butylbenzene	5.9	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Tetrachloroethylene	1.3	5.5	0.0031	U	0.0027	U	0.0027	U	0.014		0.012	
Toluene	0.7	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
trans-1,2-Dichloroethylene	0.19	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
trans-1,3-Dichloropropylene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
trans-1,4-dichloro-2-butene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Trichloroethylene	0.47	10	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Trichlorofluoromethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Vinyl Chloride	0.02	0.21	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Xylenes, Total	0.26	100	0.0094	U	0.0082	U	0.0082	U	0.0082	U	0.0080	U
Semi-Volatiles, 8270 - Comprehensive	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			2		20		2		2		2	
1,1-Biphenyl	~	~	0.0526	U	0.0588	JD	0.0457	U	0.0457	U	0.0444	U
1,2,4,5-Tetrachlorobenzene	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
1,2,4-Trichlorobenzene	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
1,2-Dichlorobenzene	1.1	100	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
1,2-Diphenylhydrazine (as Azobenzene)	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
1,3-Dichlorobenzene	2.4	17	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
1,4-Dichlorobenzene	1.8	9.8	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2,3,4,6-Tetrachlorophenol	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
2,4,5-Trichlorophenol	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2,4,6-Trichlorophenol	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2,4-Dichlorophenol	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2,4-Dimethylphenol	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2,4-Dinitrophenol	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
2,4-Dinitrotoluene	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2,6-Dinitrotoluene	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2-Chloronaphthalene	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2-Chlorophenol	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2-Methylnaphthalene	~	~	0.0526	U	0.139	D	0.0457	U	0.0457	U	0.0444	U
2-Methylphenol	0.33	100	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2-Nitroaniline	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
2-Nitrophenol	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
3- & 4-Methylphenols	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	SB-6 (10'-12') 8/10/2018 Soil		SB-7 (0'-2') 8/10/2018 Soil		SB-7 (10'-12') 8/10/2018 Soil		SB-8 (0'-2') 8/10/2018 Soil		SB-8 (17'-19') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
3,3-Dichlorobenzidine	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
3-Nitroaniline	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
4,6-Dinitro-2-methylphenol	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
4-Bromophenyl phenyl ether	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
4-Chloro-3-methylphenol	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
4-Chloroaniline	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
4-Chlorophenyl phenyl ether	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
4-Nitroaniline	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
4-Nitrophenol	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
Acenaphthene	20	100	0.0526	U	1.340	D	0.0998	D	0.0457	U	0.0481	JD
Acenaphthylene	100	100	0.0526	U	0.100	D	0.0685	JD	0.144	D	0.0444	U
Acetophenone	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Aniline	~	~	0.210	U	0.182	U	0.182	U	0.183	U	0.177	U
Anthracene	100	100	0.0526	U	3.220	D	0.299	D	0.174	D	0.166	D
Atrazine	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Benzaldehyde	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Benzidine	~	~	0.210	U	0.182	U	0.182	U	0.183	U	0.177	U
Benzo(a)anthracene	1	1	0.143	D	**5.77**	D	**1.1**	D	1	D	0.395	D
Benzo(a)pyrene	1	1	0.165	D	**5.64**	D	**1.32**	D	**1.11**	D	0.377	D
Benzo(b)fluoranthene	1	1	0.139	D	**4.48**	D	0.924	D	0.876	D	0.291	D
Benzo(g,h,i)perylene	100	100	0.104	JD	2.890	D	0.653	D	0.543	D	0.189	D
Benzo(k)fluoranthene	0.8	1	0.153	D	**4.59**	D	**0.928**	D	**0.918**	D	0.31	D
Benzoic acid	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Benzyl alcohol	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Benzyl butyl phthalate	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Bis(2-chloroethoxy)methane	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Bis(2-chloroethyl)ether	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Bis(2-chloroisopropyl)ether	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Bis(2-ethylhexyl)phthalate	~	~	0.225	D	0.0455	U	0.263	D	0.0457	U	0.273	D
Caprolactam	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
Carbazole	~	~	0.0526	U	1.190	D	0.0457	U	0.0457	U	0.0444	U
Chrysene	1	1	0.16	D	**6.09**	D	**1.21**	D	0.982	D	0.413	D
Dibenzo(a,h)anthracene	0.33	0.33	0.0526	U	**1.09**	D	0.216	D	0.215	D	0.0637	JD
Dibenzofuran	7	14	0.0526	U	0.576	D	0.0457	U	0.0457	U	0.0444	U
Diethyl phthalate	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Dimethyl phthalate	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Di-n-butyl phthalate	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Di-n-octyl phthalate	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Fluoranthene	100	100	0.328	D	14.600	D	1.91	D	1.65	D	0.726	D
Fluorene	30	100	0.0526	U	1.200	D	0.0845	JD	0.0457	U	0.0502	JD
Hexachlorobenzene	0.33	0.33	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Hexachlorobutadiene	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Hexachlorocyclopentadiene	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Hexachloroethane	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.0880	JD	**2.84**	D	**0.538**	D	**0.532**	D	0.16	D
Isophorone	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Naphthalene	12	100	0.0526	U	0.370	D	0.0457	U	0.0457	U	0.0444	U

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential	SB-6 (10'-12') 8/10/2018 Soil		SB-7 (0'-2') 8/10/2018 Soil		SB-7 (10'-12') 8/10/2018 Soil		SB-8 (0'-2') 8/10/2018 Soil		SB-8 (17'-19') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Nitrobenzene	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
N-Nitrosodimethylamine	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
N-nitroso-di-n-propylamine	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
N-Nitrosodiphenylamine	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Pentachlorophenol	0.8	2.4	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Phenanthrene	100	100	0.238	D	12.500	D	1.15	D	0.351	D	0.675	D
Phenol	0.33	100	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Pyrene	100	100	0.286	D	12.400	D	2.26	D	1.56	D	0.786	D
Pesticides, 8081 target list	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			5		5		5		5		5	
4,4'-DDD	0.0033	2.6	0.00207	U	0.00179	U	0.00179	U	**0.0591**	D	0.00175	U
4,4'-DDE	0.0033	1.8	0.00207	U	0.00241	D	0.00179	U	**0.0562**	D	0.00175	U
4,4'-DDT	0.0033	1.7	0.00207	U	**0.0114**	D	0.00179	U	**0.179**	D	0.00248	D
Aldrin	0.005	0.019	0.00207	U	0.00179	U	0.00179	U	0.00376	D	0.00175	U
alpha-BHC	0.02	0.097	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
alpha-Chlordane	0.094	0.91	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
beta-BHC	0.036	0.072	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Chlordane, total	~	~	0.0415	U	0.0358	U	0.0358	U	0.036	U	0.0349	U
delta-BHC	0.04	100	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Dieldrin	0.005	0.039	0.00207	U	0.00381	D	0.00179	U	0.0018	U	0.00175	U
Endosulfan I	2.4	4.8	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Endosulfan II	2.4	4.8	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Endosulfan sulfate	2.4	4.8	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Endrin	0.014	2.2	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00328	D
Endrin aldehyde	~	~	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Endrin ketone	~	~	0.00207	U	0.00763	D	0.00179	U	0.0018	U	0.00175	U
gamma-BHC (Lindane)	0.1	0.28	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
gamma-Chlordane	~	~	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Heptachlor	0.042	0.42	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Heptachlor epoxide	~	~	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Methoxychlor	~	~	0.0104	U	0.00895	U	0.00896	U	0.00901	U	0.00873	U
Toxaphene	~	~	0.105	U	0.0906	U	0.0907	U	0.0911	U	0.0884	U
Metals, Target Analyte	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
Aluminum	~	~	23,400	B	8,210	B	7,370	B	11,700	B	12,200	B
Antimony	~	~	4.710		1.770		4.44		1.84		2.940	
Arsenic	13	16	7.070		6.330		6.39		6.07		13	
Barium	350	350	**879**		179		104		166		194	
Beryllium	7.2	14	0.126	U	0.109	U	0.109	U	0.11	U	0.106	U
Cadmium	2.5	2.5	1.080		0.574		0.642		0.71		**5.02**	
Calcium	~	~	16,700		23,200		50,400		24,000		35,800	
Chromium	~	~	58.1		19		21.1		21.3		27.8	
Cobalt	~	~	26.4		8.52		7.21		15.6		13.6	
Copper	50	270	43.9		**103**		**98.6**		39.4		**81.2**	
Iron	~	~	45,400		19,600		22,800		18,400		29,000	
Lead	63	400	**92.2**		**358**		**338**		**225**		**273**	
Magnesium	~	~	14,100		5,600		5,110		7,260		7,230	

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

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Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Manganese	1600	2000	650		299		351		834		393	
Nickel	30	140	**47.2**		20.9		17.9		25.500		27.6	
Potassium	~	~	15,000		2,010		1,620		2,740		4,510	
Selenium	3.9	36	1.26	U	1.09	U	1.09	U	1.1	U	1.060	U
Silver	2	36	0.629	U	0.545	U	0.546	U	0.548	U	0.531	U
Sodium	~	~	424	B	572	B	462	B	268	B	435	B
Thallium	~	~	1.260	U	1.09	U	1.09	U	1.1	U	1.06	U
Vanadium	~	~	73.3		26.4		21.1		26.7		31.2	
Zinc	109	2200	**232**		**253**		**210**		**554**		**2,110**	
Mercury by 7473	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
Mercury	0.18	0.81	0.0860		**0.694**		**0.583**		**1.71**		**0.78**	
Total Solids			%		%		%		%		%	
Dilution Factor			1		1		1		1		1	
% Solids	~	~	79.5		91.8		91.5		91.2		94.2	
Polychlorinated Biphenyls (PCB)	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
Aroclor 1016	~	~	0.0209	U	0.0181	U	0.0181	U	0.0182	U	0.0176	U
Aroclor 1221	~	~	0.0209	U	0.0181	U	0.0181	U	0.0182	U	0.0176	U
Aroclor 1232	~	~	0.0209	U	0.0181	U	0.0181	U	0.0182	U	0.0176	U
Aroclor 1242	~	~	0.0209	U	0.0181	U	0.0181	U	0.0182	U	0.0176	U
Aroclor 1248	~	~	0.0209	U	0.0181	U	0.0181	U	0.0182	U	0.0176	U
Aroclor 1254	~	~	0.0209	U	0.0181	U	0.0181	U	0.571		0.0176	U
Aroclor 1260	~	~	0.0209	U	0.109		0.0181	U	0.387		0.0176	U
Total PCBs	0.1	1	0.0209	U	**0.109**		0.0181	U	**0.958**		0.0176	U

NOTES:
mg/Kg = milligrams per kilogram
Any Regulatory Exceedences are bold and shaded.

Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
U=analyte not detected at or above the level indicated
B=analyte found in the analysis batch blank

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

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

Table 2. Groundwater Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC TOGS Standards and Guidance Values - GA	SB-2 (GW) 8/10/2018 Water		SB-5 (GW) 8/10/2018 Water		Trip Blank 8/10/2018 Water	
Compound		Result	Q			Result	Q
Volatile Organics, 8260 - Comprehensive	µg/L	µg/L		ug/L		µg/L	
Dilution Factor		10		1		1	
1,1,1,2-Tetrachloroethane	5	1	U	0.2	U	0.2	U
1,1,1-Trichloroethane	5	1	U	0.2	U	0.2	U
1,1,2,2-Tetrachloroethane	5	1	U	0.2	U	0.2	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	1	U	0.2	U	0.2	U
1,1,2-Trichloroethane	1	1	U	0.2	U	0.2	U
1,1-Dichloroethane	5	1	U	0.2	U	0.2	U
1,1-Dichloroethylene	5	1	U	0.2	U	0.2	U
1,2,3-Trichlorobenzene	5	1	U	0.2	U	0.2	U
1,2,3-Trichloropropane	0.04	1	U	0.2	U	0.2	U
1,2,4-Trichlorobenzene	5	1	U	0.2	U	0.2	U
1,2,4-Trimethylbenzene	5	**1,200**	D	3		0.2	U
1,2-Dibromo-3-chloropropane	0.04	1	U	0.2	U	0.2	U
1,2-Dibromoethane	0.0006	1	U	0.2	U	0.2	U
1,2-Dichlorobenzene	3	1	U	0.2	U	0.2	U
1,2-Dichloroethane	0.6	1	U	0.2	U	0.2	U
1,2-Dichloropropane	1	1	U	0.2	U	0.2	U
1,3,5-Trimethylbenzene	5	**340**	D	1.2		0.2	U
1,3-Dichlorobenzene	3	1	U	0.2	U	0.2	U
1,4-Dichlorobenzene	3	1	U	0.2	U	0.2	U
1,4-Dioxane	~	200	U	40	U	40	U
2-Butanone	50	1	U	0.2	U	0.2	U
2-Hexanone	50	1	U	0.2	U	0.2	U
4-Methyl-2-pentanone	~	1	U	0.2	U	0.2	U
Acetone	50	5	U	1	U	1	U
Acrolein	~	1	U	0.2	U	0.2	U
Acrylonitrile	~	1	U	0.2	U	0.2	U
Benzene	1	1	U	0.2	U	0.2	U
Bromochloromethane	5	1	U	0.2	U	0.2	U
Bromodichloromethane	50	1	U	0.95		0.2	U
Bromoform	50	1	U	0.2	U	0.2	U
Bromomethane	5	1	U	0.2	U	0.2	U
Carbon disulfide	~	1	U	0.2	U	0.2	U
Carbon tetrachloride	5	1	U	0.2	U	0.2	U
Chlorobenzene	5	1	U	0.2	U	0.2	U
Chloroethane	5	1	U	0.2	U	0.2	U
Chloroform	7	**10**	D	**16**		0.2	U
Chloromethane	5	1	U	0.2	U	0.2	U
cis-1,2-Dichloroethylene	5	1	U	0.2	U	0.2	U
cis-1,3-Dichloropropylene	0.4	1	U	0.2	U	0.2	U
Cyclohexane	~	95	D	0.2	U	0.2	U
Dibromochloromethane	50	1	U	0.2	U	0.2	U
Dibromomethane	~	1	U	0.2	U	0.2	U
Dichlorodifluoromethane	5	1	U	0.2	U	0.2	U
Ethyl Benzene	5	1	U	0.2	U	0.2	U
Hexachlorobutadiene	0.5	1	U	0.2	U	0.2	U
Isopropylbenzene	5	**47**	D	0.2	U	0.2	U
Methyl acetate	~	1	U	0.2	U	0.2	U
Methyl tert-butyl ether (MTBE)	10	1	U	0.2	U	0.2	U
Methylcyclohexane	~	180	D	0.47	J	0.2	U
Methylene chloride	5	5	U	1	U	1	U
n-Butylbenzene	5	**43**	D	0.2	U	0.2	U
n-Propylbenzene	5	**110**	D	0.4	J	0.2	U
o-Xylene	5	1	U	0.2	U	0.2	U
p- & m- Xylenes	5	3.2	JD	0.5	U	0.5	U
p-Isopropyltoluene	5	**7.2**	D	0.2	U	0.2	U
sec-Butylbenzene	5	**12**	D	0.2	U	0.2	U
Styrene	5	1	U	0.2	U	0.2	U
tert-Butyl alcohol (TBA)	~	2.5	U	0.5	U	0.5	U
tert-Butylbenzene	5	1	U	0.2	U	0.2	U
Tetrachloroethylene	5	1	U	0.2	U	0.2	U
Toluene	5	1.6	JD	0.2	U	0.2	U
trans-1,2-Dichloroethylene	5	1	U	0.2	U	0.2	U
trans-1,3-Dichloropropylene	0.4	1	U	0.2	U	0.2	U
trans-1,4-dichloro-2-butene	~	1	U	0.2	U	0.2	U
Trichloroethylene	5	1	U	0.2	U	0.2	U
Trichlorofluoromethane	5	1	U	0.2	U	0.2	U
Vinyl Chloride	2	1	U	0.2	U	0.2	U
Xylenes, Total	5	3.2	JD	0.6	U	0.6	U

Table 2. Groundwater Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC TOGS Standards and Guidance Values - GA	SB-2 (GW) 8/10/2018 Water		SB-5 (GW) 8/10/2018 Water		Trip Blank 8/10/2018 Water	
Compound		Result	Q			Result	Q
Semi-Volatiles, 8270 - Comprehensive	µg/L	µg/L		µg/L			
Dilution Factor		5		1			
1,1-Biphenyl	~	3.12	U	3.03	U	NA	
1,2,4,5-Tetrachlorobenzene	~	3.12	U	3.03	U	NA	
1,2,4-Trichlorobenzene	5	3.12	U	3.03	U	NA	
1,2-Dichlorobenzene	3	3.12	U	3.03	U	NA	
1,2-Diphenylhydrazine (as Azobenzene)	~	3.12	U	3.03	U	NA	
1,3-Dichlorobenzene	3	3.12	U	3.03	U	NA	
1,4-Dichlorobenzene	3	3.12	U	3.03	U	NA	
2,3,4,6-Tetrachlorophenol	~	3.12	U	3.03	U	NA	
2,4,5-Trichlorophenol	1	3.12	U	3.03	U	NA	
2,4,6-Trichlorophenol	1	3.12	U	3.03	U	NA	
2,4-Dichlorophenol	5	3.12	U	3.03	U	NA	
2,4-Dimethylphenol	50	3.12	U	3.03	U	NA	
2,4-Dinitrophenol	10	3.12	U	3.03	U	NA	
2,4-Dinitrotoluene	5	3.12	U	3.03	U	NA	
2,6-Dinitrotoluene	5	3.12	U	3.03	U	NA	
2-Chloronaphthalene	10	3.12	U	3.03	U	NA	
2-Chlorophenol	1	3.12	U	3.03	U	NA	
2-Methylnaphthalene	~	96.6	D	3.03	U	NA	
2-Methylphenol	1	3.12	U	3.03	U	NA	
2-Nitroaniline	5	3.12	U	3.03	U	NA	
2-Nitrophenol	1	3.12	U	3.03	U	NA	
3- & 4-Methylphenols	~	3.12	U	3.03	U	NA	
3,3-Dichlorobenzidine	5	3.12	U	3.03	U	NA	
3-Nitroaniline	5	3.12	U	3.03	U	NA	
4,6-Dinitro-2-methylphenol	~	3.12	U	3.03	U	NA	
4-Bromophenyl phenyl ether	~	3.12	U	3.03	U	NA	
4-Chloro-3-methylphenol	1	3.12	U	3.03	U	NA	
4-Chloroaniline	5	3.12	U	3.03	U	NA	
4-Chlorophenyl phenyl ether	~	3.12	U	3.03	U	NA	
4-Nitroaniline	5	3.12	U	3.03	U	NA	
4-Nitrophenol	1	3.12	U	3.03	U	NA	
Acenaphthene	20	0.1		0.0606	U	NA	
Acenaphthylene	~	0.0625	U	0.0606	U	NA	
Acetophenone	~	3.12	U	3.03	U	NA	
Aniline	5	3.12	U	3.03	U	NA	
Anthracene	50	0.0625	U	0.0606	U	NA	
Atrazine	~	0.625	U	0.606	U	NA	
Benzaldehyde	~	3.12	U	3.03	U	NA	
Benzidine	~	12.5	U	12.1	U	NA	
Benzo(a)anthracene	0.002	0.0625	U	0.0606	U	NA	
Benzo(a)pyrene	0.002	0.0625	U	0.0606	U	NA	
Benzo(b)fluoranthene	0.002	0.0625	U	0.0606	U	NA	
Benzo(g,h,i)perylene	~	0.0625	U	0.0606	U	NA	
Benzo(k)fluoranthene	0.002	0.0625	U	0.0606	U	NA	
Benzoic acid	~	31.2	U	30.3	U	NA	
Benzyl alcohol	~	3.12	U	3.03	U	NA	
Benzyl butyl phthalate	50	3.12	U	3.03	U	NA	
Bis(2-chloroethoxy)methane	5	3.12	U	3.03	U	NA	
Bis(2-chloroethyl)ether	1	3.12	U	3.03	U	NA	
Bis(2-chloroisopropyl)ether	5	3.12	U	3.03	U	NA	
Bis(2-ethylhexyl)phthalate	5	0.75		0.885		NA	
Caprolactam	~	3.12	U	3.03	U	NA	
Carbazole	~	3.12	U	3.03	U	NA	
Chrysene	0.002	0.0625	U	0.0606	U	NA	
Dibenzo(a,h)anthracene	~	0.0625	U	0.0606	U	NA	
Dibenzofuran	~	3.12	U	3.03	U	NA	
Diethyl phthalate	50	3.12	U	3.03	U	NA	
Dimethyl phthalate	50	3.12	U	3.03	U	NA	
Di-n-butyl phthalate	50	3.12	U	3.03	U	NA	
Di-n-octyl phthalate	50	3.12	U	3.03	U	NA	
Fluoranthene	50	0.0625	U	0.0606	U	NA	
Fluorene	50	0.1		0.0606	U	NA	
Hexachlorobenzene	0.04	0.025	U	0.0242	U	NA	
Hexachlorobutadiene	0.5	0.625	U	0.606	U	NA	
Hexachlorocyclopentadiene	5	3.12	U	3.03	U	NA	
Hexachloroethane	5	0.625	U	0.606	U	NA	
Indeno(1,2,3-cd)pyrene	0.002	0.0625	U	0.0606	U	NA	
Isophorone	50	3.12	U	3.03	U	NA	

Table 2. Groundwater Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC TOGS Standards and Guidance Values - GA	SB-2 (GW) 8/10/2018 Water		SB-5 (GW) 8/10/2018 Water		Trip Blank 8/10/2018 Water	
Compound		Result	Q			Result	Q
Naphthalene	10	**19.6**		0.145		NA	
Nitrobenzene	0.4	0.312	U	0.303	U	NA	
N-Nitrosodimethylamine	~	0.625	U	0.606	U	NA	
N-nitroso-di-n-propylamine	~	3.12	U	3.03	U	NA	
N-Nitrosodiphenylamine	50	3.12	U	3.03	U	NA	
Pentachlorophenol	1	0.312	U	0.303	U	NA	
Phenanthrene	50	0.15		0.0848		NA	
Phenol	1	3.12	U	3.03	U	NA	
Pyrene	50	0.0625	U	0.0606	U	NA	
Pesticides, 8081 target list	µg/L	µg/L		µg/L			
Dilution Factor		1		1			
4,4'-DDD	0.3	0.00457	U	0.00485	U	NA	
4,4'-DDE	0.2	0.00457	U	0.00485	U	NA	
4,4'-DDT	0.2	0.00457	U	0.00485	U	NA	
Aldrin	~	0.00457	U	0.00485	U	NA	
alpha-BHC	0.01	0.00457	U	0.00485	U	NA	
alpha-Chlordane	~	0.00457	U	0.00485	U	NA	
beta-BHC	0.04	0.00457	U	0.00485	U	NA	
Chlordane, total	0.05	0.0229	U	0.0242	U	NA	
delta-BHC	0.04	0.00457	U	0.00485	U	NA	
Dieldrin	0.004	0.00229	U	0.00242	U	NA	
Endosulfan I	~	0.00457	U	0.00485	U	NA	
Endosulfan II	~	0.00457	U	0.00485	U	NA	
Endosulfan sulfate	~	0.00457	U	0.00485	U	NA	
Endrin	~	0.00457	U	0.00485	U	NA	
Endrin aldehyde	5	0.0114	U	0.0121	U	NA	
Endrin ketone	5	0.0114	U	0.0121	U	NA	
gamma-BHC (Lindane)	0.05	0.00457	U	0.00485	U	NA	
gamma-Chlordane	~	0.0114	U	0.0121	U	NA	
Heptachlor	0.04	0.00457	U	0.00485	U	NA	
Heptachlor epoxide	0.03	0.00457	U	0.00485	U	NA	
Methoxychlor	35	0.00457	U	0.00485	U	NA	
Toxaphene	0.06	0.114	U	0.121	U	NA	
Metals, TAL, ICPMS	µg/L	µg/L					
Dilution Factor		1					
Aluminum	~	830		NT		NA	
Antimony	3	1	U	1	U	NA	
Arsenic	25	1	U	1	U	NA	
Barium	1000	68		76.4		NA	
Beryllium	3	0.3	U	0.3	U	NA	
Cadmium	5	0.746		0.5	U	NA	
Chromium	50	4.79		3.85		NA	
Cobalt	~	2.94		2.5		NA	
Copper	200	11		5.17		NA	
Iron	~	1730	B	1780	B	NA	
Lead	25	22.3		2.51		NA	
Manganese	300	111		259		NA	
Nickel	100	3.4		4.7		NA	
Selenium	10	1	U	1.1		NA	
Silver	50	1	U	1	U	NA	
Thallium	~	1	U	1	U	NA	
Vanadium	~	3.51		3.71		NA	
Zinc	2000	19.9		48.2		NA	
Metals, TAL, ICPMS Dissolved	µg/L	µg/L					
Dilution Factor		1					
Aluminum	~	396		322		NA	
Antimony	3	1	U	1	U	NA	
Arsenic	25	1	U	1	U	NA	
Barium	1000	68.7		62.9		NA	
Beryllium	3	0.3	U	0.3	U	NA	
Cadmium	5	0.76		0.5	U	NA	
Chromium	50	3.17		1.7		NA	
Cobalt	~	2.51		1.03		NA	
Copper	200	6.75		2.56		NA	
Iron	~	1290		712		NA	
Lead	25	19.6		1.55		NA	
Manganese	300	105		122		NA	
Nickel	100	2.42		2.07		NA	
Selenium	10	1	U	1	U	NA	
Silver	50	1	U	1	U	NA	

Table 2. Groundwater Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID **Sampling Date** **Client Matrix**	**NYSDEC TOGS Standards and Guidance Values - GA**	**SB-2 (GW)** **8/10/2018** **Water**		**SB-5 (GW)** **8/10/2018** **Water**		**Trip Blank** **8/10/2018** **Water**	
Compound		Result	Q			Result	Q
Thallium	~	1	U	1	U	NA	
Vanadium	~	1.4		1		NA	
Zinc	2000	18.8		481		NA	
Mercury by 7473	µg/L	µg/L					
Dilution Factor		1					
Mercury	0.7	0.2	U	0.2	U	NA	
Mercury by 7473, Dissolved	µg/L	µg/L					
Dilution Factor		1					
Mercury	0.7	0.2	U	0.2	U	NA	
Polychlorinated Biphenyls (PCB)	µg/L	µg/L					
Dilution Factor		1					
Aroclor 1016	~	0.0571	U	0.0606	U	NA	
Aroclor 1221	~	0.0571	U	0.0606	U	NA	
Aroclor 1232	~	0.0571	U	0.0606	U	NA	
Aroclor 1242	~	0.0571	U	0.0606	U	NA	
Aroclor 1248	~	0.0571	U	0.0606	U	NA	
Aroclor 1254	~	0.0571	U	0.0606	U	NA	
Aroclor 1260	~	0.0571	U	0.0836		NA	
Total PCBs	0.09	0.0571	U	0.0836		NA	

NOTES:
µg/L = micrograms per liter
Any Regulatory Exceedences are bold and shaded

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

Table 3. Soil Vapor Analytical Results
Phase II Evironmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID	**SV-1**	**SV-2**	**SV-3**	**SV-4**
Sampling Date	**8/10/2018**	**8/10/2018**	**8/10/2018**	**8/10/2018**
Client Matrix	**Soil Vapor**	**Soil Vapor**	**Soil Vapor**	**Soil Vapor**
Compound	Result	Result	Result	Result
Volatile Organics, EPA TO15 Full List	µg/m3	µg/m3	µg/m3	µg/m3
Dilution Factor	34.06	33.22	17.33	1.546
1,1,1,2-Tetrachloroethane	1.1U	1.1U	1.1U	1.1U
1,1,1-Trichloroethane	4.6D	0.84U	0.84U	0.84U
1,1,2,2-Tetrachloroethane	1.1U	1.1U	1.1U	1.1U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.2U	1.2U	1.2U	1.2U
1,1,2-Trichloroethane	0.84U	0.84U	0.84U	0.84U
1,1-Dichloroethane	0.63U	0.63U	0.63U	0.63U
1,1-Dichloroethylene	0.15U	0.15U	0.15U	0.15U
1,2,4-Trichlorobenzene	1.1U	1.1U	1.1U	1.1U
1,2,4-Trimethylbenzene	8.2D	10D	47D	12D
1,2-Dibromoethane	1.2U	1.2U	1.2U	1.2U
1,2-Dichlorobenzene	0.93U	0.93U	0.93U	0.93U
1,2-Dichloroethane	0.63U	0.63U	0.63U	0.63U
1,2-Dichloropropane	0.71U	0.71U	0.71U	0.71U
1,2-Dichlorotetrafluoroethane	1.1U	1.1U	1.1U	1.1U
1,3,5-Trimethylbenzene	0.76U	0.76U	25D	0.76U
1,3-Butadiene	4.5D	1U	7.8D	1U
1,3-Dichlorobenzene	7.7D	0.93U	0.93U	0.93U
1,3-Dichloropropane	0.71U	0.71U	0.71U	0.71U
1,4-Dichlorobenzene	0.93U	0.93U	0.93U	0.93U
1,4-Dioxane	1.1U	1.1U	1.1U	1.1U
2-Butanone	120D	26D	62D	25D
2-Hexanone	1.3U	1.3U	1.3U	1.3U
3-Chloropropene	2.4U	2.4U	2.4U	2.4U
4-Methyl-2-pentanone	8D	0.63U	8.8D	3.5D
Acetone	660D	150D	180D	110D
Acrylonitrile	0.34U	0.34U	0.34U	0.34U
Benzene	7.6D	4.4D	23D	3.1D
Benzyl chloride	0.8U	0.8U	0.8U	0.8U
Bromodichloromethane	1U	1U	1U	1U
Bromoform	1.6U	1.6U	1.6U	1.6U
Bromomethane	0.6U	0.6U	0.6U	0.6U
Carbon disulfide	0.48U	12D	31D	43D
Carbon tetrachloride	0.24U	0.24U	0.24U	0.24U
Chlorobenzene	0.71U	0.71U	0.71U	0.71U
Chloroethane	0.41U	0.41U	0.41U	0.41U
Chloroform	0.75U	0.75U	4.5D	0.75U
Chloromethane	0.32U	1.6D	3.3D	1.9D
cis-1,2-Dichloroethylene	0.15U	0.15U	0.15U	0.15U
cis-1,3-Dichloropropylene	0.7U	0.7U	0.7U	0.7U
Cyclohexane	7.2D	3.7D	46D	11D
Dibromochloromethane	1.3U	1.3U	1.3U	1.3U
Dichlorodifluoromethane	0.76U	0.76U	0.76U	0.76U
Ethyl acetate	1.1U	1.1U	1.1U	1.1U
Ethyl Benzene	7.5D	7.9D	22D	8.2D
Hexachlorobutadiene	1.6U	1.6U	1.6U	1.6U
Isopropanol	140D	67D	60D	47D
Methyl Methacrylate	0.63U	0.63U	0.63U	0.63U
Methyl tert-butyl ether (MTBE)	0.56U	0.56U	8.4D	0.56U
Methylene chloride	1.1U	37D	6.9D	6.2D
n-Heptane	21D	0.63U	120D	0.63U
n-Hexane	11D	8.4D	75D	11D
o-Xylene	11D	11D	28D	12D
p- & m- Xylenes	30D	31D	73D	32D
p-Ethyltoluene	0.76U	0.76U	29D	0.76U
Propylene	28D	15D	130DE	27D
Styrene	0.66U	0.66U	0.66U	0.66U
Tetrachloroethylene	56D	460D	44D	35D
Tetrahydrofuran	16D	5.6D	22D	6.2D
Toluene	26D	18D	47D	22D
trans-1,2-Dichloroethylene	0.61U	0.61U	0.61U	0.61U
trans-1,3-Dichloropropylene	0.7U	0.7U	0.7U	0.7U
Trichloroethylene	0.21U	0.21U	0.21U	0.21U
Trichlorofluoromethane (Freon 11)	0.87U	0.87U	0.87U	0.87U
Vinyl acetate	0.54U	0.54U	0.54U	0.54U
Vinyl bromide	0.68U	0.68U	0.68U	0.68U
Vinyl Chloride	0.099U	0.099U	0.099U	0.099U

NOTES:
µg/m3 = microgram per cubic meter

Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
U=analyte not detected at or above the level indicated
E=result is estimated and cannot be accurately reported due to levels encountered or interferences

Appendix A

Soil Boring Logs

GEI Consultants

GEI Consultants, Inc. P.C.
110 Walt Whitman Road
Suite 204
Huntington Station,
New York 11746

CLIENT: Hunton Andrews Kurth LLP
PROJECT: Gerard Avenue
CITY/STATE: Bronx, New York
GEI PROJECT NUMBER: 1803080

BORING LOG

SB-1

LOCATION: 580-610 Gerard Avenue
NORTHING (FT): **EASTING (FT):**
TOTAL DEPTH (FT): 25.0
DRILLED BY: Cascade Drilling / Luke Caballero
DATUM VERT. / HORZ.:
LOGGED BY: Bill Fitchett
DATE START / END: 8/10/2018 - 8/10/2018
DRILLING DETAILS: Direct Push / Geoprobe 7822DT
WATER LEVEL DEPTHS (FT): ▼ 24.00 8/10/2018
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN/REC FT./FT.	PID (PPM)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	0	S1	5/3	0.0		SB-1 (0'-2')	(0'- 0.25') dry, asphalt. (0.25'- 5') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts.
	5	S2	5/1.5	0.0			(5'- 9.5') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts.
	10	S3	5/3	0.0			(9.5'- 12') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts, brick fragments encountered. (12'- 15') SILT (ML); ~100% fines, ~0% gravel, ~0% sand; dry, tan, no visual impacts.
	15	S4	5/3	0.0			(15'- 18') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts, brick fragments encountered. (18'- 20') SANDY SILT (ML); ~90% fines, ~10% sand, fine, ~0% gravel; dry, tan, no visual impacts.
▼	20	S5	5/4	0.0		SB-1 (21'-23')	(20'- 22.5') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts, brick fragments encountered. (22.5'- 23.5') POORLY GRADED SAND WITH SILT (SP-SM); ~90% sand, fine, ~10% fines, ~0% gravel; moist, dark brown, no visual impacts. (23.5'- 25') POORLY GRADED SAND WITH SILT (SP-SM); ~90% sand, fine, ~10% fines, ~0% gravel; moist, tan, no visual impacts.
	25						End of Boring at 25 feet, Refusal.

NOTES:

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JHS = JAR HEADSPACE PID READING (PPM)

NA = NOT APPLICABLE
NM = NOT MEASURED

Q_P = POCKET PENETROMETER
S_V = TORVANE PEAK

ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR

GEI Consultants, Inc. P.C.
110 Walt Whitman Road
Suite 204
Huntington Station,
New York 11746

CLIENT: Hunton Andrews Kurth LLP
PROJECT: Gerard Avenue
CITY/STATE: Bronx, New York
GEI PROJECT NUMBER: 1803080

BORING LOG

SB-2

LOCATION: 580-610 Gerard Avenue
NORTHING (FT): **EASTING (FT):**
TOTAL DEPTH (FT): 25.0
DRILLED BY: Cascade Drilling / Luke Caballero
DATUM VERT. / HORZ.:
LOGGED BY: Bill Fitchett
DATE START / END: 8/10/2018 - 8/10/2018
DRILLING DETAILS: Direct Push / Geoprobe 7822DT
WATER LEVEL DEPTHS (FT): ▼ 24.00 8/10/2018
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN/REC FT./FT.	PID (PPM)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	0	S1	5/2	0.0		SB-2 (0'-2')	(0'- 0.25') ~70% sand, ~25% fines, ~5% gravel; dry, asphalt. (0.25'- 3') POORLY GRADED SAND WITH GRAVEL (SP); ~95% sand, fine, ~5% gravel, ~0% fines; max. gravel size 0.25, dry, dark brown, no visual impacts. (3'- 5') POORLY GRADED SAND WITH GRAVEL (SP); ~95% sand, fine, ~5% gravel, ~0% fines; max. gravel size 0.25, dry, tan, no visual impacts.
	5	S2	5/3	14.8			(5'- 6.75') WELL GRADED SAND (SP); ~100% sand, fine to medium, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts. (6.75'- 8.5') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts. (8.5'- 10') SANDY SILT (ML); ~70% fines, ~30% sand, fine, ~0% gravel; dry, tan, no visual impacts.
	10	S3	5/4	2.3			(10'- 11.5') POORLY GRADED SAND WITH GRAVEL (SP); ~95% sand, fine, ~5% gravel, ~0% fines; dry, dark brown, no visual impacts. (11.5'- 15') POORLY GRADED SAND (SP); ~90% sand, fine, ~10% fines, ~0% gravel; dry, light brown, no visual impacts.
	15	S4	5/3.3	0.0			(15'- 16') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, tan, no visual impacts. (16'- 17.5') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts. (17.5'- 20') POORLY GRADED SAND (SP); ~90% sand, fine, ~10% fines, ~0% gravel; dry, light brown, no visual impacts.
	20	S5	1/1	0.0			(20'- 21') POORLY GRADED SAND WITH GRAVEL (SP); ~95% sand, fine, ~5% gravel, ~0% fines; max. gravel size 0.25, dry, dark brown, no visual impacts.
		S6	3/2	37.0		SB-2 (21'-23')	(21'- 23') POORLY GRADED SAND WITH GRAVEL (SP); ~95% sand, fine, ~5% gravel, ~0% fines; max. gravel size 0.25, dry, dark brown, no visual impacts. (23'- 24') POORLY GRADED SAND WITH GRAVEL (SP); ~95% sand, fine, ~5% gravel, ~0% fines; max. gravel size 0.25, moist, dark brown, no visual impacts.
▼		S7	1/1	5,041			(24'- 25') POORLY GRADED SAND WITH GRAVEL (SP); ~95% sand, fine, ~5% gravel, ~0% fines; max. gravel size 0.25, wet, dark brown, no visual impacts.
	25						End of Boring at 25 feet.

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S_V = TORVANE PEAK

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IN. = INCHES
FT. = FEET

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GEI Consultants

GEI Consultants, Inc. P.C.
110 Walt Whitman Road
Suite 204
Huntington Station,
New York 11746

CLIENT: Hunton Andrews Kurth LLP
PROJECT: Gerard Avenue
CITY/STATE: Bronx, New York
GEI PROJECT NUMBER: 1803080

BORING LOG

PAGE 1 of 1

SB-3

LOCATION: 580-610 Gerard Avenue
NORTHING (FT): **EASTING (FT):**
TOTAL DEPTH (FT): 5.0
DRILLED BY: Cascade Drilling / Luke Caballero
DATUM VERT. / HORZ.:
LOGGED BY: Bill Fitchett
DATE START / END: 8/10/2018 - 8/10/2018
DRILLING DETAILS: Direct Push / Geoprobe 7822DT
WATER LEVEL DEPTHS (FT):
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN/REC FT./FT.	PID (PPM)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	0	S1	5/48	0.0		SB-3 (0'-2')	(0'- 0.25') dry, asphalt. (0.25'- 2') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts.
	5						End of Boring at 5 feet, Refusal.

NOTES:

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NM = NOT MEASURED

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S_V = TORVANE PEAK

ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
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GEI Consultants

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110 Walt Whitman Road
Suite 204
Huntington Station,
New York 11746

CLIENT: Hunton Andrews Kurth LLP
PROJECT: Gerard Avenue
CITY/STATE: Bronx, New York
GEI PROJECT NUMBER: 1803080

BORING LOG

SB-4

LOCATION: 580-610 Gerard Avenue
NORTHING (FT): **EASTING (FT):**
TOTAL DEPTH (FT): 20.0
DRILLED BY: Cascade Drilling / Luke Caballero
DATUM VERT. / HORZ.:
LOGGED BY: Bill Fitchett
DATE START / END: 8/10/2018 - 8/10/2018
DRILLING DETAILS: Direct Push / Geoprobe 7822DT
WATER LEVEL DEPTHS (FT): ▼ 19.50 8/10/2018
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN/REC FT./FT.	PID (PPM)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	0	S1	5/3.3	0.0		SB-4 (0'-2')	(0'- 0.25') dry, asphalt. (0.25'- 5') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown to black, rocks and brick fragments encountered, no visual impacts.
	5	S2	5/3	0.0			(5'- 7') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, black, no visual impacts. (7'- 10') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, rock fragments encountered, no visual impacts.
	10	S3	5/3	0.0			(10'- 11.5') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts. (11.5'- 12.5') NARROWLY GRADED GRAVEL (SP); ~100% gravel, 0.25, angular, ~0% sand, ~0% fines; max. gravel size 0.25, dry, dark brown, no visual impacts. (12.5'- 15') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, tan, no visual impacts.
	15	S4	5/3	0.0		SB-4 (17'-19')	(15'- 18') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown to black, no visual impacts. (18'- 19') POORLY GRADED SAND (SP); ~90% sand, fine, ~10% fines, ~0% gravel; dry, tan, no visual impacts. (19'- 20') SILT (ML); ~100% fines, ~0% gravel, ~0% sand; dry to moist at bottom, gray, no visual impacts.
▼	20						End of Boring at 20 feet.

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S_V = TORVANE PEAK

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IN. = INCHES
FT. = FEET

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TLO = TAR LIKE ODOR
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GEI Consultants

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110 Walt Whitman Road
Suite 204
Huntington Station,
New York 11746

CLIENT: Hunton Andrews Kurth LLP
PROJECT: Gerard Avenue
CITY/STATE: Bronx, New York
GEI PROJECT NUMBER: 1803080

BORING LOG

PAGE 1 of 1

SB-5

LOCATION: 580-610 Gerard Avenue
NORTHING (FT): **EASTING (FT):**
TOTAL DEPTH (FT): 20.0
DRILLED BY: Cascade Drilling / Luke Caballero
DATUM VERT. / HORZ.:
LOGGED BY: Bill Fitchett
DATE START / END: 8/10/2018 - 8/10/2018
DRILLING DETAILS: Direct Push / Geoprobe 7822DT
WATER LEVEL DEPTHS (FT):
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN/REC FT./FT.	PID (PPM)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	0	S1	5/3	0.0		SB-5 (0'-2')	(0'- 0.25') dry, asphalt. (0.25'- 5') SILTY SAND (SM); ~70% sand, fine, ~30% fines, ~0% gravel; dry, dark brown, no visual impacts.
	5	S2	5/3.3	0.0			(5'- 6') SILTY SAND (SM); ~70% sand, fine, ~30% fines, ~0% gravel; dry, dark brown, no visual impacts. (6'- 17.5') POORLY GRADED SAND (SP); ~90% sand, fine, ~10% fines, ~0% gravel; dry, light brown, no visual impacts.
	10	S3	5/4.5	0.0		SB-5 (10'-12')	
	15	S4	5/3	0.0			(17.5'- 20') SILTY SAND (SM); ~70% sand, fine, ~30% fines, ~0% gravel; dry, dark brown, no visual impacts.
	20						End of Boring at 20 feet.

NOTES:

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NM = NOT MEASURED

Q_P = POCKET PENETROMETER
S_V = TORVANE PEAK

ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET

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PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

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Huntington Station,
New York 11746

CLIENT: Hunton Andrews Kurth LLP
PROJECT: Gerard Avenue
CITY/STATE: Bronx, New York
GEI PROJECT NUMBER: 1803080

BORING LOG

SB-6

LOCATION: 580-610 Gerard Avenue
NORTHING (FT): **EASTING (FT):**
TOTAL DEPTH (FT): 20.0
DRILLED BY: Cascade Drilling / Luke Caballero
DATUM VERT. / HORZ.:
LOGGED BY: Bill Fitchett
DATE START / END: 8/10/2018 - 8/10/2018
DRILLING DETAILS: Direct Push / Geoprobe 7822DT
WATER LEVEL DEPTHS (FT):
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN/REC FT./FT.	PID (PPM)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	0	S1	5/3.3	0.0		SB-6 (0'-2')	(0'- 0.25') dry, asphalt. (0.25'- 3') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, rock fragments encountered, no visual impacts.
							(3'- 4') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, tan, no visual impacts. (4'- 5') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts.
	5	S2	5/3.6	0.0			(5'- 5.5') POORLY GRADED SAND (SP); ~90% sand, fine, ~10% fines, ~0% gravel; dry, tan, no visual impacts. (5.5'- 8.5') POORLY GRADED GRAVEL WITH SILT (GP-GM); ~90% gravel, 0.25, ~10% sand, ~0% fines; max. gravel size 0.25, dry, black, no visual impacts.
							(8.5'- 10') POORLY GRADED SAND (SP); ~90% sand, fine, ~10% fines, ~0% gravel; dry, tan, no visual impacts.
	10	S3	5/4	0.0		SB-6 (10'-12')	(10'- 12.5') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts.
							(12.5'- 15') POORLY GRADED SAND (SP); ~90% sand, fine, ~10% fines, ~0% gravel; dry, tan, no visual impacts.
	15	S4	5/4	0.0			(15'- 18') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts.
							(18'- 20') POORLY GRADED SAND (SP); ~90% sand, fine, ~10% fines, ~0% gravel; dry, light brown, no visual impacts.
	20						End of Boring at 20 feet.

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NM = NOT MEASURED

ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET

Q_P = POCKET PENETROMETER
S_V = TORVANE PEAK

NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

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OLO = ORGANIC LIKE ODOR
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CLIENT: Hunton Andrews Kurth LLP
PROJECT: Gerard Avenue
CITY/STATE: Bronx, New York
GEI PROJECT NUMBER: 1803080

BORING LOG

PAGE 1 of 1

SB-7

LOCATION: 580-610 Gerard Avenue
NORTHING (FT): **EASTING (FT):**
TOTAL DEPTH (FT): 19.0
DRILLED BY: Cascade Drilling / Luke Caballero
DATUM VERT. / HORZ.:
LOGGED BY: Bill Fitchett
DATE START / END: 8/10/2018 - 8/10/2018
DRILLING DETAILS: Direct Push / Geoprobe 7822DT
WATER LEVEL DEPTHS (FT):
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN/REC FT./FT.	PID (PPM)	STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	0	S1	5/2.75	0.0			SB-7 (0'-2')	(0'- 0.25') dry, asphalt. (0.25'- 5') WELL GRADED SAND (SW); ~100% sand, fine to medium sand, ~0% gravel, ~0% fines; dry, dark brown to black, no visual impacts.
	5	S2	2/1	0.0				(5'- 7.8') POORLY GRADED SAND (SP); ~90% sand, fine, ~10% fines, ~0% gravel; dry, dark brown, no visual impacts.
		S3	2/1	0.0				(6.5'- 8') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts.
		S4	2/1	5.9		PLO		(8'- 10') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; slight petroleum-like odor, dry, dark brown to black, no visual impacts.
	10	S4	2/1	27.0		PLO	SB-7 (10'-12')	(10'- 12') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; slight petroleum-like odor, dry, dark brown to black, no visual impacts.
		S5	3/2	0.0				(12'- 15') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts.
	15	S6	1/0.75	0.0				(14'- 16') POORLY GRADED SAND (SP); ~90% sand, fine, ~10% fines, ~0% gravel; dry, tan, no visual impacts.
		S7	2/1	0.0				(16'- 18') POORLY GRADED SAND (SP); ~90% sand, ~10% fines, ~0% gravel; moist, tan, no visual impacts.
		S8	1/0.5	0.0				(18'- 19') POORLY GRADED SAND (SP); ~90% sand, ~10% fines, ~0% gravel; wet, tan, no visual impacts.

End of Boring at 19 feet, Refusal.

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FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
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New York 11746

CLIENT: Hunton Andrews Kurth LLP
PROJECT: Gerard Avenue
CITY/STATE: Bronx, New York
GEI PROJECT NUMBER: 1803080

BORING LOG

PAGE 1 of 1

SB-8

LOCATION: 580-610 Gerard Avenue
NORTHING (FT): **EASTING (FT):**
TOTAL DEPTH (FT): 19.5
DRILLED BY: Cascade Drilling / Luke Caballero
DATUM VERT. / HORZ.:
LOGGED BY: Bill Fitchett
DATE START / END: 8/10/2018 - 8/10/2018
DRILLING DETAILS: Direct Push / Geoprobe 7822DT
WATER LEVEL DEPTHS (FT):
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN/REC FT./FT.	PID (PPM)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	0	S1	5/4	0.0		SB-8 (0'-2')	(0'- 0.25') ASPHALT; asphalt. (0.25'- 1') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, brick fragments encountered, no visual impacts. (1'- 5') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, gray to black, brick fragments encountered, no visual impacts.
	5	S2	5/3	0.0			(5'- 10') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, rock fragments encountered, no visual impacts.
	10	S3	5/3	0.0			(10'- 15') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, brown to tan, rock and brick fragments encountered, no visual impacts.
	15	S3	5/2	0.0		SB-8 (17'-19')	(15'- 19') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown to black, no visual impacts.
							(19'- 19.5') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; moist, tan, no visual impacts. End of Boring at 19.5 feet, Refusal.

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Appendix B

Laboratory Report and Chain-of-Custody Record

Technical Report

prepared for:

GEI Consultants, Inc
110 Walt Whitman Road, Suite 204
Huntington Station NY, 11746
Attention: Wendy Monterosso

Report Date: 08/20/2018
Client Project ID: 580 Gerard Ave
York Project (SDG) No.: 18H0563

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

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Report Date: 08/20/2018
Client Project ID: 580 Gerard Ave
York Project (SDG) No.: 18H0563

GEI Consultants, Inc
110 Walt Whitman Road, Suite 204
Huntington Station NY, 11746
Attention: Wendy Monterosso

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 13, 2018 and listed below. The project was identified as your project: **580 Gerard Ave**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
18H0563-01	SB-1 (0'-2')	Soil	08/10/2018	08/13/2018
18H0563-02	SB-1 (21'-23')	Soil	08/10/2018	08/13/2018
18H0563-03	SB-2 (0'-2')	Soil	08/10/2018	08/13/2018
18H0563-04	SB-2 (21'-23')	Soil	08/10/2018	08/13/2018
18H0563-05	SB-3 (0'-2')	Soil	08/10/2018	08/13/2018
18H0563-06	SB-4 (0'-2')	Soil	08/10/2018	08/13/2018
18H0563-07	SB-4 (17'-19')	Soil	08/10/2018	08/13/2018
18H0563-08	SB-5 (0'-2')	Soil	08/10/2018	08/13/2018
18H0563-09	SB-5 (10'-12')	Soil	08/10/2018	08/13/2018
18H0563-10	SB-6 (0'-2')	Soil	08/10/2018	08/13/2018
18H0563-11	SB-6 (10'-12')	Soil	08/10/2018	08/13/2018
18H0563-12	SB-7 (0'-2')	Soil	08/10/2018	08/13/2018
18H0563-13	SB-7 (10'-12')	Soil	08/10/2018	08/13/2018
18H0563-14	SB-8 (0'-2')	Soil	08/10/2018	08/13/2018
18H0563-15	SB-8 (17'-19')	Soil	08/10/2018	08/13/2018

General Notes for York Project (SDG) No.: 18H0563

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: **Date:** 08/20/2018

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **SB-1 (0'-2')** **York Sample ID:** **18H0563-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 3:40 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 04:31	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 04:31	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.055	0.11	1	EPA 8260C Certifications:	08/16/2018 04:31 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
78-93-3	2-Butanone	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL

Sample Information

Client Sample ID: **SB-1 (0'-2')** **York Sample ID:** **18H0563-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 3:40 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
67-64-1	**Acetone**	**0.0083**	J	mg/kg dry	0.0055	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
107-02-8	Acrolein	ND		mg/kg dry	0.0055	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
71-43-2	Benzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
75-25-2	Bromoform	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
74-83-9	Bromomethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
75-00-3	Chloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
67-66-3	Chloroform	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
74-87-3	Chloromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
110-82-7	Cyclohexane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
74-95-3	Dibromomethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL

Sample Information

Client Sample ID: **SB-1 (0'-2')** **York Sample ID:** **18H0563-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 3:40 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
79-20-9	Methyl acetate	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0055	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0055	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
100-42-5	Styrene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
127-18-4	**Tetrachloroethylene**	**0.0077**		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
108-88-3	Toluene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH	08/16/2018 04:31	08/16/2018 04:31	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0083	0.017	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 04:31	08/16/2018 04:31	LL

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: **SB-1 (0'-2')** **York Sample ID:** **18H0563-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 3:40 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*91.6 %*			*77-125*						
2037-26-5	*Surrogate: Toluene-d8*	*115 %*			*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*117 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR

Sample Information

Client Sample ID: **SB-1 (0'-2')** **York Sample ID:** **18H0563-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 3:40 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
83-32-9	**Acenaphthene**	**0.0590**	J	mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
208-96-8	**Acenaphthylene**	**0.112**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
62-53-3	Aniline	ND		mg/kg dry	0.185	0.370	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
120-12-7	**Anthracene**	**0.171**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
92-87-5	Benzidine	ND		mg/kg dry	0.185	0.370	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
56-55-3	**Benzo(a)anthracene**	**0.692**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
50-32-8	**Benzo(a)pyrene**	**0.824**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR

Sample Information

Client Sample ID: **SB-1 (0'-2')** **York Sample ID:** **18H0563-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 3:40 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	**Benzo(b)fluoranthene**	**0.659**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
191-24-2	**Benzo(g,h,i)perylene**	**0.433**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
207-08-9	**Benzo(k)fluoranthene**	**0.703**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.0664**	J	mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
86-74-8	**Carbazole**	**0.0561**	J	mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
218-01-9	**Chrysene**	**0.739**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
53-70-3	**Dibenzo(a,h)anthracene**	**0.161**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
206-44-0	**Fluoranthene**	**1.36**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
86-73-7	**Fluorene**	**0.0480**	J	mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR

Sample Information

Client Sample ID: **SB-1 (0'-2')** **York Sample ID:** **18H0563-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 3:40 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.370**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
85-01-8	**Phenanthrene**	**0.624**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
108-95-2	Phenol	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
129-00-0	**Pyrene**	**1.16**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*53.6 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*56.4 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*67.0 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*55.6 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*57.0 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*63.8 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
50-29-3	**4,4'-DDT**	**0.00819**		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB

Sample Information

Client Sample ID: **SB-1 (0'-2')** **York Sample ID:** **18H0563-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 3:40 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
319-84-6	alpha-BHC	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 21:07	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0365	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
60-57-1	**Dieldrin**	**0.00239**		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/16/2018 21:07	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
72-20-8	**Endrin**	**0.00514**		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
7421-93-4	**Endrin aldehyde**	**0.00230**		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
53494-70-5	**Endrin ketone**	**0.00660**		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 21:07	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00913	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.0924	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*64.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.5 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB-1 (0'-2')** **York Sample ID:** **18H0563-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 3:40 pm	08/13/2018

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:32	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:32	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:32	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:32	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:32	LAB
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:32	LAB
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:32	LAB
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 13:32	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*61.9 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*66.2 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7690**		mg/kg dry	5.54	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:51	KML
7440-36-0	**Antimony**	**3.37**	B	mg/kg dry	0.554	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:51	KML
7440-38-2	**Arsenic**	**7.14**		mg/kg dry	1.11	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:51	KML
7440-39-3	**Barium**	**253**		mg/kg dry	1.11	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:51	KML
7440-41-7	**Beryllium**	**0.138**		mg/kg dry	0.111	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:51	KML
7440-43-9	**Cadmium**	**0.713**		mg/kg dry	0.332	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:51	KML
7440-70-2	**Calcium**	**15400**		mg/kg dry	5.54	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:51	KML
7440-47-3	**Chromium**	**19.4**		mg/kg dry	0.554	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:51	KML
7440-48-4	**Cobalt**	**7.95**		mg/kg dry	0.554	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:51	KML
7440-50-8	**Copper**	**106**		mg/kg dry	0.554	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:51	KML

Sample Information

Client Sample ID: **SB-1 (0'-2')** **York Sample ID:** **18H0563-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 3:40 pm	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	**Iron**	**17900**		mg/kg dry	2.21	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**398**		mg/kg dry	0.554	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**4150**		mg/kg dry	5.54	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**348**		mg/kg dry	0.554	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**22.1**		mg/kg dry	0.554	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1720**	B	mg/kg dry	5.54	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.11	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.554	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**339**	B	mg/kg dry	11.1	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.11	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**22.9**		mg/kg dry	1.11	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**375**		mg/kg dry	1.66	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.395**		mg/kg dry	0.0332	1	EPA 7473	08/20/2018 09:08	08/20/2018 12:11	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**90.3**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB-1 (21'-23')** **York Sample ID:** **18H0563-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:00 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 05:01	08/16/2018 05:01	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
87-61-6	1,2,3-Trichlorobenzene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
96-18-4	1,2,3-Trichloropropane	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 05:01	08/16/2018 05:01	LL
120-82-1	1,2,4-Trichlorobenzene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
95-63-6	1,2,4-Trimethylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.054	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
78-93-3	2-Butanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL

Sample Information

Client Sample ID: **SB-1 (21'-23')** **York Sample ID:** **18H0563-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:00 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.023**		mg/kg dry	0.0054	0.011	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-1 (21'-23')** **York Sample ID:** **18H0563-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:00 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
104-51-8	n-Butylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
103-65-1	n-Propylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
99-87-6	p-Isopropyltoluene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
135-98-8	sec-Butylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
98-06-6	tert-Butylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH	08/16/2018 05:01	08/16/2018 05:01	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0081	0.016	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 05:01	08/16/2018 05:01	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*89.3 %*	*77-125*
2037-26-5	*Surrogate: Toluene-d8*	*116 %*	*85-120*

Sample Information

Client Sample ID: **SB-1 (21'-23')** **York Sample ID:** **18H0563-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:00 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	*Surrogate: p-Bromofluorobenzene*	*138 %*	S-08		*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR

Sample Information

Client Sample ID: **SB-1 (21'-23')** **York Sample ID:** **18H0563-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:00 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
83-32-9	Acenaphthene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
62-53-3	Aniline	ND		mg/kg dry	0.180	0.360	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
120-12-7	Anthracene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
92-87-5	Benzidine	ND		mg/kg dry	0.180	0.360	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
56-55-3	**Benzo(a)anthracene**	**0.131**		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
50-32-8	**Benzo(a)pyrene**	**0.173**		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
205-99-2	**Benzo(b)fluoranthene**	**0.137**		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
191-24-2	**Benzo(g,h,i)perylene**	**0.152**		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR

Sample Information

Client Sample ID: **SB-1 (21'-23')** **York Sample ID:** **18H0563-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:00 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	**Benzo(k)fluoranthene**	**0.129**		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
86-74-8	Carbazole	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
218-01-9	**Chrysene**	**0.147**		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
206-44-0	**Fluoranthene**	**0.234**		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
86-73-7	Fluorene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR

Sample Information

Client Sample ID: **SB-1 (21'-23')** **York Sample ID:** **18H0563-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:00 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.0920**		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
85-01-8	**Phenanthrene**	**0.119**		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
108-95-2	Phenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
129-00-0	**Pyrene**	**0.220**		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*69.1 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*72.2 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*86.4 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*65.6 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*71.3 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*81.2 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
319-84-6	alpha-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB

Sample Information

Client Sample ID: **SB-1 (21'-23')** **York Sample ID:** **18H0563-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:00 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 21:22	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0356	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
60-57-1	Dieldrin	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/16/2018 21:22	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
72-20-8	Endrin	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 21:22	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00890	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.0901	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*36.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*57.3 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:56	LAB

Sample Information

Client Sample ID: **SB-1 (21'-23')** **York Sample ID:** **18H0563-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:00 pm	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:56	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:56	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:56	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:56	LAB
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:56	LAB
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:56	LAB
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 13:56	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*49.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*48.3 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**11700**		mg/kg dry	5.41	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:53	KML
7440-36-0	**Antimony**	**2.18**	B	mg/kg dry	0.541	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:53	KML
7440-38-2	**Arsenic**	**4.20**		mg/kg dry	1.08	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:53	KML
7440-39-3	**Barium**	**162**		mg/kg dry	1.08	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:53	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.108	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:53	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.324	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:53	KML
7440-70-2	**Calcium**	**15300**		mg/kg dry	5.41	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:53	KML
7440-47-3	**Chromium**	**23.0**		mg/kg dry	0.541	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:53	KML
7440-48-4	**Cobalt**	**14.2**		mg/kg dry	0.541	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:53	KML
7440-50-8	**Copper**	**46.1**		mg/kg dry	0.541	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:53	KML
7439-89-6	**Iron**	**24300**		mg/kg dry	2.16	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:53	KML

Sample Information

Client Sample ID: **SB-1 (21'-23')** **York Sample ID:** **18H0563-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:00 pm	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**150**		mg/kg dry	0.541	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**7310**		mg/kg dry	5.41	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**359**		mg/kg dry	0.541	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**24.0**		mg/kg dry	0.541	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**3890**	B	mg/kg dry	5.41	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.08	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.541	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**200**	B	mg/kg dry	10.8	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.08	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**31.3**		mg/kg dry	1.08	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**129**		mg/kg dry	1.62	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.457**		mg/kg dry	0.0324	1	EPA 7473	08/20/2018 09:08	08/20/2018 12:17	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**92.5**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB-2 (0'-2')** **York Sample ID:** **18H0563-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:21 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 05:30	08/16/2018 05:30	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 05:30	08/16/2018 05:30	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.052	0.10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
78-93-3	2-Butanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL

Sample Information

Client Sample ID: **SB-2 (0'-2')** **York Sample ID:** **18H0563-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:21 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.035**		mg/kg dry	0.0052	0.010	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0052	0.010	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-2 (0'-2')** **York Sample ID:** **18H0563-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:21 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0052	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0052	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
100-42-5	Styrene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
127-18-4	**Tetrachloroethylene**	**0.0065**		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
108-88-3	Toluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH	08/16/2018 05:30	08/16/2018 05:30	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0078	0.016	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 05:30	08/16/2018 05:30	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*93.0 %*	*77-125*

Sample Information

Client Sample ID: **SB-2 (0'-2')** **York Sample ID:** **18H0563-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:21 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*106 %*			*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*115 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0864	0.173	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0864	0.173	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0864	0.173	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR

Sample Information

Client Sample ID: **SB-2 (0'-2')** **York Sample ID:** **18H0563-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:21 am	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0864	0.173	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0864	0.173	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0864	0.173	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0864	0.173	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0864	0.173	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
83-32-9	**Acenaphthene**	**0.215**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
208-96-8	**Acenaphthylene**	**0.0739**	J	mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
62-53-3	Aniline	ND		mg/kg dry	0.173	0.346	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
120-12-7	**Anthracene**	**0.366**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
92-87-5	Benzidine	ND		mg/kg dry	0.173	0.346	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
56-55-3	**Benzo(a)anthracene**	**1.22**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
50-32-8	**Benzo(a)pyrene**	**1.27**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
205-99-2	**Benzo(b)fluoranthene**	**1.03**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR

Sample Information

Client Sample ID: **SB-2 (0'-2')** **York Sample ID:** **18H0563-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:21 am	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	**Benzo(g,h,i)perylene**	**0.600**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
207-08-9	**Benzo(k)fluoranthene**	**1.09**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.0497**	J	mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0864	0.173	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
86-74-8	**Carbazole**	**0.155**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
218-01-9	**Chrysene**	**1.27**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
53-70-3	**Dibenzo(a,h)anthracene**	**0.222**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
132-64-9	**Dibenzofuran**	**0.0794**	J	mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
206-44-0	**Fluoranthene**	**2.37**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
86-73-7	**Fluorene**	**0.116**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR

Sample Information

Client Sample ID: **SB-2 (0'-2')** **York Sample ID:** **18H0563-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:21 am	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.589**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
91-20-3	**Naphthalene**	**0.0829**	J	mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
85-01-8	**Phenanthrene**	**1.52**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
108-95-2	Phenol	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
129-00-0	**Pyrene**	**2.00**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*77.5 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*72.0 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*89.3 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*70.5 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*78.8 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*82.1 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
50-29-3	**4,4'-DDT**	**0.00684**		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB

Sample Information

Client Sample ID: **SB-2 (0'-2')** **York Sample ID:** **18H0563-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:21 am	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 21:52	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0340	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
60-57-1	**Dieldrin**	**0.00261**		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/16/2018 21:52	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
72-20-8	**Endrin**	**0.00348**		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
7421-93-4	**Endrin aldehyde**	**0.00217**		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 21:52	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00849	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.0860	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*48.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*55.8 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

Sample Information

Client Sample ID: **SB-2 (0'-2')** **York Sample ID:** **18H0563-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:21 am	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:20	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:20	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:20	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:20	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:20	LAB
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:20	LAB
11096-82-5	**Aroclor 1260**	**0.0342**		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:20	LAB
1336-36-3	*** Total PCBs**	**0.0342**		mg/kg dry	0.0172	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 14:20	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*51.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*47.3 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9310**		mg/kg dry	5.18	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:55	KML
7440-36-0	**Antimony**	**1.55**	B	mg/kg dry	0.518	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:55	KML
7440-38-2	**Arsenic**	**4.57**		mg/kg dry	1.04	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:55	KML
7440-39-3	**Barium**	**875**		mg/kg dry	1.04	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:55	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.104	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:55	KML
7440-43-9	**Cadmium**	**0.399**		mg/kg dry	0.311	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:55	KML
7440-70-2	**Calcium**	**8150**		mg/kg dry	5.18	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:55	KML
7440-47-3	**Chromium**	**17.7**		mg/kg dry	0.518	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:55	KML
7440-48-4	**Cobalt**	**7.61**		mg/kg dry	0.518	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:55	KML

Sample Information

Client Sample ID: **SB-2 (0'-2')** **York Sample ID:** **18H0563-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:21 am	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**29.8**		mg/kg dry	0.518	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**14700**		mg/kg dry	2.07	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**109**		mg/kg dry	0.518	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**3900**		mg/kg dry	5.18	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**294**		mg/kg dry	0.518	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**15.5**		mg/kg dry	0.518	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1860**	B	mg/kg dry	5.18	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.04	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.518	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**169**	B	mg/kg dry	10.4	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.04	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**21.6**		mg/kg dry	1.04	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**259**		mg/kg dry	1.55	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.171**		mg/kg dry	0.0311	1	EPA 7473	08/20/2018 09:08	08/20/2018 12:26	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**96.6**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB-2 (21'-23')** **York Sample ID:** **18H0563-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:55 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 06:00	08/16/2018 06:00	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 06:00	08/16/2018 06:00	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.051	0.10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
78-93-3	**2-Butanone**	**0.0040**	J	mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL

Sample Information

Client Sample ID: **SB-2 (21'-23')** **York Sample ID:** **18H0563-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:55 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.031**		mg/kg dry	0.0051	0.010	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0051	0.010	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-2 (21'-23')** **York Sample ID:** **18H0563-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:55 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0051	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0051	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
100-42-5	Styrene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
127-18-4	**Tetrachloroethylene**	**0.0074**		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
108-88-3	Toluene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH	08/16/2018 06:00	08/16/2018 06:00	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0077	0.015	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 06:00	08/16/2018 06:00	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*93.5 %*	*77-125*

Sample Information

Client Sample ID: **SB-2 (21'-23')** **York Sample ID:** **18H0563-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:55 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*103 %*			*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*108 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0852	0.170	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0852	0.170	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0852	0.170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR

Sample Information

Client Sample ID: **SB-2 (21'-23')** **York Sample ID:** **18H0563-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:55 am	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0852	0.170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0852	0.170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0852	0.170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0852	0.170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0852	0.170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
83-32-9	Acenaphthene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
208-96-8	**Acenaphthylene**	**0.114**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
62-53-3	Aniline	ND		mg/kg dry	0.171	0.341	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
120-12-7	**Anthracene**	**0.116**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
92-87-5	Benzidine	ND		mg/kg dry	0.171	0.341	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
56-55-3	**Benzo(a)anthracene**	**0.472**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
50-32-8	**Benzo(a)pyrene**	**0.527**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
205-99-2	**Benzo(b)fluoranthene**	**0.433**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR

Sample Information

Client Sample ID: **SB-2 (21'-23')** **York Sample ID:** **18H0563-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:55 am	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	**Benzo(g,h,i)perylene**	**0.269**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
207-08-9	**Benzo(k)fluoranthene**	**0.467**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.290**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0852	0.170	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
86-74-8	Carbazole	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
218-01-9	**Chrysene**	**0.467**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
53-70-3	**Dibenzo(a,h)anthracene**	**0.0988**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
206-44-0	**Fluoranthene**	**0.929**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
86-73-7	Fluorene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR

Sample Information

Client Sample ID: **SB-2 (21'-23')** **York Sample ID:** **18H0563-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:55 am	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.258**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
85-01-8	**Phenanthrene**	**0.515**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
108-95-2	Phenol	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
129-00-0	**Pyrene**	**0.840**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*56.7 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*57.3 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*62.5 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*54.9 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*57.8 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*67.2 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
50-29-3	**4,4'-DDT**	**0.0107**		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB

Sample Information

Client Sample ID: **SB-2 (21'-23')** **York Sample ID:** **18H0563-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:55 am	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 22:07	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0337	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
60-57-1	**Dieldrin**	**0.00411**		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
33213-65-9	**Endosulfan II**	**0.00364**		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/16/2018 22:07	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
72-20-8	**Endrin**	**0.00923**		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
7421-93-4	**Endrin aldehyde**	**0.00355**		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
53494-70-5	**Endrin ketone**	**0.0128**		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 22:07	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00842	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.0852	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*71.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*71.8 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

Sample Information

Client Sample ID: **SB-2 (21'-23')** **York Sample ID:** **18H0563-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:55 am	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:44	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:44	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:44	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:44	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:44	LAB
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:44	LAB
11096-82-5	**Aroclor 1260**	**0.0499**		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:44	LAB
1336-36-3	*** Total PCBs**	**0.0499**		mg/kg dry	0.0170	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 14:44	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*64.9 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*64.2 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**15300**		mg/kg dry	5.11	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:57	KML
7440-36-0	**Antimony**	**2.88**	B	mg/kg dry	0.511	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:57	KML
7440-38-2	**Arsenic**	**4.79**		mg/kg dry	1.02	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:57	KML
7440-39-3	**Barium**	**495**		mg/kg dry	1.02	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:57	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.102	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:57	KML
7440-43-9	**Cadmium**	**0.344**		mg/kg dry	0.307	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:57	KML
7440-70-2	**Calcium**	**6910**		mg/kg dry	5.11	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:57	KML
7440-47-3	**Chromium**	**43.8**		mg/kg dry	0.511	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:57	KML
7440-48-4	**Cobalt**	**14.5**		mg/kg dry	0.511	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:57	KML

Sample Information

Client Sample ID: **SB-2 (21'-23')** **York Sample ID:** **18H0563-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:55 am	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**27.2**		mg/kg dry	0.511	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**29300**		mg/kg dry	2.04	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**35.6**		mg/kg dry	0.511	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**7500**		mg/kg dry	5.11	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**408**		mg/kg dry	0.511	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**23.7**		mg/kg dry	0.511	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**8780**	B	mg/kg dry	5.11	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.02	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.511	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**195**	B	mg/kg dry	10.2	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.02	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**46.7**		mg/kg dry	1.02	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**117**		mg/kg dry	1.53	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0959**		mg/kg dry	0.0307	1	EPA 7473	08/20/2018 09:08	08/20/2018 12:35	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**97.8**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB-3 (0'-2')** **York Sample ID:** **18H0563-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:30 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 06:30	08/16/2018 06:30	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 06:30	08/16/2018 06:30	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
95-63-6	**1,2,4-Trimethylbenzene**	**0.022**		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
108-67-8	**1,3,5-Trimethylbenzene**	**0.0096**		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.054	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
78-93-3	2-Butanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL

Sample Information

Client Sample ID: **SB-3 (0'-2')** **York Sample ID:** **18H0563-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:30 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.041**		mg/kg dry	0.0054	0.011	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	**Ethyl Benzene**	**0.0034**	J	mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-3 (0'-2')** **York Sample ID:** **18H0563-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:30 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
95-47-6	**o-Xylene**	**0.0075**		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
179601-23-1	**p- & m- Xylenes**	**0.014**		mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
75-65-0	**tert-Butyl alcohol (TBA)**	**0.0072**		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
108-88-3	**Toluene**	**0.0062**		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH	08/16/2018 06:30	08/16/2018 06:30	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
1330-20-7	**Xylenes, Total**	**0.022**		mg/kg dry	0.0082	0.016	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 06:30	08/16/2018 06:30	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*87.7 %*	*77-125*

Sample Information

Client Sample ID: **SB-3 (0'-2')** **York Sample ID:** **18H0563-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:30 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*99.1 %*			*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*116 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0907	0.181	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0907	0.181	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0907	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR

Sample Information

Client Sample ID: **SB-3 (0'-2')** **York Sample ID:** **18H0563-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:30 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0907	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0907	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0907	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0907	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0907	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
83-32-9	Acenaphthene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
62-53-3	Aniline	ND		mg/kg dry	0.182	0.363	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
120-12-7	Anthracene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
92-87-5	Benzidine	ND		mg/kg dry	0.182	0.363	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
56-55-3	**Benzo(a)anthracene**	**0.108**		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
50-32-8	**Benzo(a)pyrene**	**0.159**		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
205-99-2	**Benzo(b)fluoranthene**	**0.160**		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR

Sample Information

Client Sample ID: **SB-3 (0'-2')** **York Sample ID:** **18H0563-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:30 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	**Benzo(g,h,i)perylene**	**0.147**		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
207-08-9	**Benzo(k)fluoranthene**	**0.125**		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
85-68-7	**Benzyl butyl phthalate**	**0.0522**	J	mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0907	0.181	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
86-74-8	Carbazole	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
218-01-9	**Chrysene**	**0.129**		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
206-44-0	**Fluoranthene**	**0.116**		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
86-73-7	Fluorene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR

Sample Information

Client Sample ID: **SB-3 (0'-2')** **York Sample ID:** **18H0563-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:30 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.125**		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
85-01-8	**Phenanthrene**	**0.0486**	J	mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
108-95-2	Phenol	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
129-00-0	**Pyrene**	**0.112**		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*55.6 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*54.8 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*63.6 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*53.8 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*54.9 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*64.9 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB

Sample Information

Client Sample ID: **SB-3 (0'-2')** **York Sample ID:** **18H0563-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:30 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 22:22	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0357	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
60-57-1	Dieldrin	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/16/2018 22:22	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
72-20-8	Endrin	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 22:22	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00892	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.0903	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*84.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*74.7 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

Sample Information

Client Sample ID: **SB-3 (0'-2')** **York Sample ID:** **18H0563-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:30 pm	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.180	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.180	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.180	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.180	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.180	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
11097-69-1	**Aroclor 1254**	**7.69**		mg/kg dry	0.180	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
11096-82-5	**Aroclor 1260**	**1.41**		mg/kg dry	0.180	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
1336-36-3	*** Total PCBs**	**9.11**		mg/kg dry	0.180	10	EPA 8082A Certifications:	08/15/2018 14:35	08/17/2018 14:38	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*59.4 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*69.7 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**16900**		mg/kg dry	5.44	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:59	KML
7440-36-0	**Antimony**	**3.59**	B	mg/kg dry	0.544	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:59	KML
7440-38-2	**Arsenic**	**5.57**		mg/kg dry	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:59	KML
7440-39-3	**Barium**	**509**		mg/kg dry	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:59	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.109	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:59	KML
7440-43-9	**Cadmium**	**0.659**		mg/kg dry	0.326	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:59	KML
7440-70-2	**Calcium**	**12600**		mg/kg dry	5.44	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:59	KML
7440-47-3	**Chromium**	**41.7**		mg/kg dry	0.544	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:59	KML
7440-48-4	**Cobalt**	**17.5**		mg/kg dry	0.544	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:59	KML

Sample Information

Client Sample ID: **SB-3 (0'-2')** **York Sample ID:** **18H0563-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:30 pm	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**54.7**		mg/kg dry	0.544	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**31600**		mg/kg dry	2.17	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**285**		mg/kg dry	0.544	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**9970**		mg/kg dry	5.44	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**362**		mg/kg dry	0.544	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**32.4**		mg/kg dry	0.544	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**8690**	B	mg/kg dry	5.44	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.09	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.544	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**319**	B	mg/kg dry	10.9	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.09	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**47.5**		mg/kg dry	1.09	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**201**		mg/kg dry	1.63	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.474**		mg/kg dry	0.0326	1	EPA 7473	08/20/2018 09:08	08/20/2018 12:44	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**92.0**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB-4 (0'-2')** **York Sample ID:** **18H0563-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:15 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 09:05	08/16/2018 09:05	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 09:05	08/16/2018 09:05	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.060	0.12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
78-93-3	2-Butanone	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL

Sample Information

Client Sample ID: **SB-4 (0'-2')** **York Sample ID:** **18H0563-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:15 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.030**		mg/kg dry	0.0060	0.012	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0060	0.012	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-4 (0'-2')** **York Sample ID:** **18H0563-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:15 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0060	0.012	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0060	0.012	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
100-42-5	Styrene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
75-65-0	**tert-Butyl alcohol (TBA)**	**0.011**		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
108-88-3	Toluene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH	08/16/2018 09:05	08/16/2018 09:05	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0090	0.018	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 09:05	08/16/2018 09:05	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*101 %*	*77-125*

Sample Information

Client Sample ID: **SB-4 (0'-2')** **York Sample ID:** **18H0563-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:15 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*106 %*			*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*112 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0997	0.199	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0997	0.199	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0997	0.199	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR

Sample Information

Client Sample ID: **SB-4 (0'-2')** **York Sample ID:** **18H0563-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:15 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0997	0.199	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0997	0.199	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0997	0.199	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0997	0.199	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0997	0.199	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
83-32-9	Acenaphthene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
208-96-8	**Acenaphthylene**	**0.0725**	J	mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
62-53-3	Aniline	ND		mg/kg dry	0.200	0.399	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
120-12-7	**Anthracene**	**0.169**		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
92-87-5	Benzidine	ND		mg/kg dry	0.200	0.399	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
56-55-3	**Benzo(a)anthracene**	**0.504**		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
50-32-8	**Benzo(a)pyrene**	**0.560**		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
205-99-2	**Benzo(b)fluoranthene**	**0.469**		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR

Sample Information

Client Sample ID: **SB-4 (0'-2')** **York Sample ID:** **18H0563-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:15 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	**Benzo(g,h,i)perylene**	**0.318**		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
207-08-9	**Benzo(k)fluoranthene**	**0.484**		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0997	0.199	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
86-74-8	Carbazole	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
218-01-9	**Chrysene**	**0.523**		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
53-70-3	**Dibenzo(a,h)anthracene**	**0.104**		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
206-44-0	**Fluoranthene**	**0.980**		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
86-73-7	Fluorene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR

Sample Information

Client Sample ID: **SB-4 (0'-2')** **York Sample ID:** **18H0563-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:15 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.269**		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
85-01-8	**Phenanthrene**	**0.561**		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
108-95-2	Phenol	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
129-00-0	**Pyrene**	**0.889**		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*66.4 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*63.6 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*76.2 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*61.4 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*60.3 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*68.2 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB

Sample Information

Client Sample ID: **SB-4 (0'-2')** **York Sample ID:** **18H0563-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:15 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 22:36	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0396	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
60-57-1	Dieldrin	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/16/2018 22:36	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
72-20-8	Endrin	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 22:36	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00989	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.100	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*91.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*75.2 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

Sample Information

Client Sample ID: **SB-4 (0'-2')** **York Sample ID:** **18H0563-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:15 pm	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.200	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:51	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.200	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:51	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.200	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:51	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.200	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:51	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.200	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:51	LAB
11097-69-1	**Aroclor 1254**	**1.84**		mg/kg dry	0.200	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:51	LAB
11096-82-5	**Aroclor 1260**	**3.13**		mg/kg dry	0.200	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:51	LAB
1336-36-3	*** Total PCBs**	**4.97**		mg/kg dry	0.200	10	EPA 8082A Certifications:	08/15/2018 14:35	08/17/2018 14:51	LAB

	Surrogate Recoveries	Result		Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*64.4 %*		*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*144 %*	S-GC	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**10400**		mg/kg dry	6.00	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:01	KML
7440-36-0	**Antimony**	**1.30**	B	mg/kg dry	0.600	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:01	KML
7440-38-2	**Arsenic**	**5.46**		mg/kg dry	1.20	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:01	KML
7440-39-3	**Barium**	**938**		mg/kg dry	1.20	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:01	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.120	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:01	KML
7440-43-9	**Cadmium**	**0.384**		mg/kg dry	0.360	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:01	KML
7440-70-2	**Calcium**	**14600**		mg/kg dry	6.00	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:01	KML
7440-47-3	**Chromium**	**23.9**		mg/kg dry	0.600	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:01	KML
7440-48-4	**Cobalt**	**10.3**		mg/kg dry	0.600	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:01	KML

Sample Information

Client Sample ID: **SB-4 (0'-2')** **York Sample ID:** **18H0563-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:15 pm	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**41.4**		mg/kg dry	0.600	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**18400**		mg/kg dry	2.40	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**397**		mg/kg dry	0.600	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**4690**		mg/kg dry	6.00	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**293**		mg/kg dry	0.600	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**19.5**		mg/kg dry	0.600	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**2480**	B	mg/kg dry	6.00	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.20	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.600	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**387**	B	mg/kg dry	12.0	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.20	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**29.2**		mg/kg dry	1.20	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**210**		mg/kg dry	1.80	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.909**		mg/kg dry	0.0360	1	EPA 7473	08/20/2018 09:08	08/20/2018 12:53	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**83.4**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB-4 (17'-19')** **York Sample ID:** **18H0563-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:25 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 09:34	08/16/2018 09:34	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 09:34	08/16/2018 09:34	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.054	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
78-93-3	2-Butanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL

Sample Information

Client Sample ID: SB-4 (17'-19')

York Sample ID: 18H0563-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:25 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.074**		mg/kg dry	0.0054	0.011	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-4 (17'-19')** **York Sample ID:** **18H0563-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:25 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
75-65-0	**tert-Butyl alcohol (TBA)**	**0.014**		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH	08/16/2018 09:34	08/16/2018 09:34	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0080	0.016	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 09:34	08/16/2018 09:34	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*91.5 %*	*77-125*

Sample Information

Client Sample ID: **SB-4 (17'-19')** **York Sample ID:** **18H0563-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:25 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*91.9 %*			*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*105 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR

Sample Information

Client Sample ID: **SB-4 (17'-19')** **York Sample ID:** **18H0563-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:25 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
83-32-9	Acenaphthene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
62-53-3	Aniline	ND		mg/kg dry	0.179	0.358	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
120-12-7	Anthracene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
92-87-5	Benzidine	ND		mg/kg dry	0.179	0.358	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR

Sample Information

Client Sample ID: **SB-4 (17'-19')** **York Sample ID:** **18H0563-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:25 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
86-74-8	Carbazole	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
218-01-9	Chrysene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
206-44-0	Fluoranthene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
86-73-7	Fluorene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR

Sample Information

Client Sample ID: **SB-4 (17'-19')** **York Sample ID:** **18H0563-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:25 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications:	08/16/2018 07:38 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/17/2018 20:26	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications:	08/16/2018 07:38 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/17/2018 20:26	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications:	08/16/2018 07:38 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/17/2018 20:26	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications:	08/16/2018 07:38 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/17/2018 20:26	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications:	08/16/2018 07:38 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/17/2018 20:26	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications:	08/16/2018 07:38 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/17/2018 20:26	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications:	08/16/2018 07:38 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/17/2018 20:26	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications:	08/16/2018 07:38 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/17/2018 20:26	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications:	08/16/2018 07:38 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/17/2018 20:26	SR
85-01-8	Phenanthrene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications:	08/16/2018 07:38 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/17/2018 20:26	SR
108-95-2	Phenol	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications:	08/16/2018 07:38 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/17/2018 20:26	SR
129-00-0	Pyrene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications:	08/16/2018 07:38 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/17/2018 20:26	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*65.3 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*61.2 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*74.9 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*64.0 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*70.4 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*70.2 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications:	08/15/2018 14:35 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 22:51	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications:	08/15/2018 14:35 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 22:51	LAB
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications:	08/15/2018 14:35 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 22:51	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications:	08/15/2018 14:35 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 22:51	LAB

Sample Information

Client Sample ID: **SB-4 (17'-19')** **York Sample ID:** **18H0563-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:25 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 22:51	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0352	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
60-57-1	Dieldrin	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/16/2018 22:51	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
72-20-8	Endrin	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 22:51	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00880	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.0891	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*59.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*57.9 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

Sample Information

Client Sample ID: **SB-4 (17'-19')** **York Sample ID:** **18H0563-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:25 pm	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 16:52	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 16:52	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 16:52	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 16:52	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 16:52	LAB
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 16:52	LAB
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 16:52	LAB
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 16:52	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*53.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*58.2 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7140**		mg/kg dry	5.36	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-36-0	Antimony	ND		mg/kg dry	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-38-2	**Arsenic**	**1.55**		mg/kg dry	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-39-3	**Barium**	**29.9**		mg/kg dry	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-41-7	**Beryllium**	**0.212**		mg/kg dry	0.107	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.322	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-70-2	**Calcium**	**851**		mg/kg dry	5.36	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-47-3	**Chromium**	**10.7**		mg/kg dry	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-48-4	**Cobalt**	**6.06**		mg/kg dry	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML

Sample Information

Client Sample ID: **SB-4 (17'-19')** **York Sample ID:** **18H0563-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:25 pm	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**11.5**		mg/kg dry	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7439-89-6	**Iron**	**13700**		mg/kg dry	2.15	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7439-92-1	**Lead**	**5.46**		mg/kg dry	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7439-95-4	**Magnesium**	**2820**		mg/kg dry	5.36	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7439-96-5	**Manganese**	**257**		mg/kg dry	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-02-0	**Nickel**	**12.8**		mg/kg dry	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-09-7	**Potassium**	**1040**	B	mg/kg dry	5.36	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7782-49-2	Selenium	ND		mg/kg dry	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-22-4	Silver	ND		mg/kg dry	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-23-5	**Sodium**	**96.8**	B	mg/kg dry	10.7	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-28-0	Thallium	ND		mg/kg dry	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-62-2	**Vanadium**	**13.9**		mg/kg dry	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-66-6	**Zinc**	**38.2**		mg/kg dry	1.61	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0322	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	08/20/2018 09:08	08/20/2018 13:06	SY

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**93.2**		%	0.100	1	SM 2540G Certifications: CTDOH	08/17/2018 10:26	08/17/2018 16:13	TAJ

Sample Information

Client Sample ID: **SB-5 (0'-2')** **York Sample ID:** **18H0563-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:25 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 10:04	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 10:04	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.052	0.10	1	EPA 8260C Certifications:	08/16/2018 10:04 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
78-93-3	2-Butanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL

Sample Information

Client Sample ID: **SB-5 (0'-2')** **York Sample ID:** **18H0563-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:25 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.040**		mg/kg dry	0.0052	0.010	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0052	0.010	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-5 (0'-2')** **York Sample ID:** **18H0563-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:25 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0052	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0052	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
100-42-5	Styrene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
108-88-3	Toluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH	08/16/2018 10:04	08/16/2018 10:04	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0078	0.016	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 10:04	08/16/2018 10:04	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*91.3 %*	*77-125*
2037-26-5	*Surrogate: Toluene-d8*	*99.5 %*	*85-120*

Sample Information

Client Sample ID: **SB-5 (0'-2')** **York Sample ID:** **18H0563-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:25 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	*Surrogate: p-Bromofluorobenzene*	*113 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0871	0.174	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0871	0.174	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0871	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0871	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR

Sample Information

Client Sample ID: **SB-5 (0'-2')** **York Sample ID:** **18H0563-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:25 am	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0871	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0871	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0871	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0871	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
83-32-9	Acenaphthene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
62-53-3	Aniline	ND		mg/kg dry	0.174	0.349	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
120-12-7	**Anthracene**	**0.0494**	J	mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
92-87-5	Benzidine	ND		mg/kg dry	0.174	0.349	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
56-55-3	**Benzo(a)anthracene**	**0.135**		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
50-32-8	**Benzo(a)pyrene**	**0.129**		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
205-99-2	**Benzo(b)fluoranthene**	**0.113**		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
191-24-2	**Benzo(g,h,i)perylene**	**0.0724**	J	mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR

Sample Information

Client Sample ID: **SB-5 (0'-2')** **York Sample ID:** **18H0563-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:25 am	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	**Benzo(k)fluoranthene**	**0.117**		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0871	0.174	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
86-74-8	Carbazole	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
218-01-9	**Chrysene**	**0.143**		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
206-44-0	**Fluoranthene**	**0.336**		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
86-73-7	Fluorene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR

Sample Information

Client Sample ID: **SB-5 (0'-2')** **York Sample ID:** **18H0563-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:25 am	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.0654**	J	mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
85-01-8	**Phenanthrene**	**0.275**		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
108-95-2	Phenol	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
129-00-0	**Pyrene**	**0.276**		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*73.2 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*68.9 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*81.2 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*66.2 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*73.2 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*78.9 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
319-84-6	alpha-BHC	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB

Sample Information

Client Sample ID: **SB-5 (0'-2')** **York Sample ID:** **18H0563-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:25 am	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 23:06	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0343	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
60-57-1	Dieldrin	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/16/2018 23:06	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
72-20-8	Endrin	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 23:06	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00857	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.0868	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*55.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*55.7 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:16	LAB

Sample Information

Client Sample ID: **SB-5 (0'-2')** **York Sample ID:** **18H0563-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:25 am	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:16	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:16	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:16	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:16	LAB
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:16	LAB
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:16	LAB
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 17:16	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*51.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*45.8 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7860**		mg/kg dry	5.22	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:05	KML
7440-36-0	Antimony	ND		mg/kg dry	0.522	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:05	KML
7440-38-2	**Arsenic**	**1.77**		mg/kg dry	1.04	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:05	KML
7440-39-3	**Barium**	**57.3**		mg/kg dry	1.04	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:05	KML
7440-41-7	**Beryllium**	**0.184**		mg/kg dry	0.104	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:05	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.313	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:05	KML
7440-70-2	**Calcium**	**1920**		mg/kg dry	5.22	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:05	KML
7440-47-3	**Chromium**	**13.3**		mg/kg dry	0.522	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:05	KML
7440-48-4	**Cobalt**	**4.83**		mg/kg dry	0.522	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:05	KML
7440-50-8	**Copper**	**11.7**		mg/kg dry	0.522	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:05	KML
7439-89-6	**Iron**	**11100**		mg/kg dry	2.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:05	KML

Sample Information

Client Sample ID: **SB-5 (0'-2')** **York Sample ID:** **18H0563-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:25 am	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**59.1**		mg/kg dry	0.522	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**2870**		mg/kg dry	5.22	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**289**		mg/kg dry	0.522	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**11.0**		mg/kg dry	0.522	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1110**	B	mg/kg dry	5.22	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.04	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.522	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**170**	B	mg/kg dry	10.4	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.04	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**15.4**		mg/kg dry	1.04	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**87.3**		mg/kg dry	1.57	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0873**		mg/kg dry	0.0313	1	EPA 7473	08/20/2018 09:08	08/20/2018 13:14	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**95.8**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB-5 (10'-12')** **York Sample ID:** **18H0563-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:46 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 10:34	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 10:34	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.064	0.13	1	EPA 8260C Certifications:	08/16/2018 10:34 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
78-93-3	**2-Butanone**	**0.011**		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL

Sample Information

Client Sample ID: **SB-5 (10'-12')** **York Sample ID:** **18H0563-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:46 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.17**		mg/kg dry	0.0064	0.013	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
107-02-8	Acrolein	ND		mg/kg dry	0.0064	0.013	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
71-43-2	Benzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
75-25-2	Bromoform	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
74-83-9	Bromomethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
75-00-3	Chloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
67-66-3	Chloroform	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
74-87-3	Chloromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
110-82-7	Cyclohexane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
74-95-3	Dibromomethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL

Sample Information

Client Sample ID: **SB-5 (10'-12')** **York Sample ID:** **18H0563-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:46 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
75-09-2	**Methylene chloride**	**0.012**	J	mg/kg dry	0.0064	0.013	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0064	0.013	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
100-42-5	Styrene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
75-65-0	**tert-Butyl alcohol (TBA)**	**0.14**		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
108-88-3	Toluene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH	08/16/2018 10:34	08/16/2018 10:34	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0097	0.019	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 10:34	08/16/2018 10:34	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*91.0 %*	*77-125*

Sample Information

Client Sample ID: **SB-5 (10'-12')** **York Sample ID:** **18H0563-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:46 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*101 %*			*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*110 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.107	0.215	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.107	0.215	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.107	0.215	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR

Sample Information

Client Sample ID: **SB-5 (10'-12')** **York Sample ID:** **18H0563-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:46 am	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.107	0.215	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.107	0.215	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.107	0.215	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.107	0.215	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.107	0.215	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
83-32-9	Acenaphthene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
62-53-3	Aniline	ND		mg/kg dry	0.215	0.430	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
120-12-7	Anthracene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
92-87-5	Benzidine	ND		mg/kg dry	0.215	0.430	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR

Sample Information

Client Sample ID: **SB-5 (10'-12')** **York Sample ID:** **18H0563-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:46 am	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.107	0.215	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
86-74-8	Carbazole	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
218-01-9	Chrysene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
206-44-0	**Fluoranthene**	**0.0867**	J	mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
86-73-7	Fluorene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR

Sample Information

Client Sample ID: **SB-5 (10'-12')** **York Sample ID:** **18H0563-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:46 am	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
85-01-8	**Phenanthrene**	**0.0635**	J	mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
108-95-2	Phenol	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
129-00-0	**Pyrene**	**0.0773**	J	mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*62.9 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*65.4 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*73.8 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*63.6 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*38.0 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*73.3 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB

Sample Information

Client Sample ID: **SB-5 (10'-12')** **York Sample ID:** **18H0563-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:46 am	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 23:21	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0425	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
60-57-1	Dieldrin	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/16/2018 23:21	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
72-20-8	Endrin	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 23:21	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.0106	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.107	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*55.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*56.7 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

Sample Information

Client Sample ID: **SB-5 (10'-12')** **York Sample ID:** **18H0563-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:46 am	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:40	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:40	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:40	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:40	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:40	LAB
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:40	LAB
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:40	LAB
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 17:40	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*54.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*55.7 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8570**	B	mg/kg dry	6.44	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-36-0	**Antimony**	**1.94**		mg/kg dry	0.644	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-38-2	**Arsenic**	**3.80**		mg/kg dry	1.29	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-39-3	**Barium**	**62.1**		mg/kg dry	1.29	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.129	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.386	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-70-2	**Calcium**	**10000**		mg/kg dry	6.44	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-47-3	**Chromium**	**20.4**		mg/kg dry	0.644	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-48-4	**Cobalt**	**6.37**		mg/kg dry	0.644	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML

Sample Information

Client Sample ID: **SB-5 (10'-12')** **York Sample ID:** **18H0563-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:46 am	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**13.1**		mg/kg dry	0.644	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7439-89-6	**Iron**	**13800**		mg/kg dry	2.58	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7439-92-1	**Lead**	**18.2**		mg/kg dry	0.644	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7439-95-4	**Magnesium**	**3020**		mg/kg dry	6.44	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7439-96-5	**Manganese**	**377**		mg/kg dry	0.644	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-02-0	**Nickel**	**15.6**		mg/kg dry	0.644	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-09-7	**Potassium**	**1700**		mg/kg dry	6.44	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7782-49-2	Selenium	ND		mg/kg dry	1.29	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-22-4	Silver	ND		mg/kg dry	0.644	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-23-5	**Sodium**	**348**	B	mg/kg dry	12.9	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-28-0	Thallium	ND		mg/kg dry	1.29	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-62-2	**Vanadium**	**18.6**		mg/kg dry	1.29	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-66-6	**Zinc**	**47.4**		mg/kg dry	1.93	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0386	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	08/20/2018 09:08	08/20/2018 13:23	SY

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**77.6**		%	0.100	1	SM 2540G Certifications: CTDOH	08/17/2018 10:26	08/17/2018 16:13	TAJ

Sample Information

Client Sample ID: **SB-6 (0'-2')** **York Sample ID:** **18H0563-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:07 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 11:03	08/16/2018 11:03	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 11:03	08/16/2018 11:03	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.055	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
78-93-3	**2-Butanone**	**0.0031**	J	mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL

Sample Information

Client Sample ID: **SB-6 (0'-2')** **York Sample ID:** **18H0563-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:07 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.11**		mg/kg dry	0.0055	0.011	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0055	0.011	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	**Benzene**	**0.0031**	J	mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-6 (0'-2')** **York Sample ID:** **18H0563-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:07 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0055	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0055	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
100-42-5	Styrene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
75-65-0	**tert-Butyl alcohol (TBA)**	**0.017**		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
108-88-3	Toluene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH	08/16/2018 11:03	08/16/2018 11:03	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0083	0.017	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 11:03	08/16/2018 11:03	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*94.0 %*	*77-125*

Sample Information

Client Sample ID: **SB-6 (0'-2')** **York Sample ID:** **18H0563-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:07 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*116 %*			*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*121 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR

Sample Information

Client Sample ID: **SB-6 (0'-2')** **York Sample ID:** **18H0563-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:07 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
83-32-9	**Acenaphthene**	**0.179**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
208-96-8	**Acenaphthylene**	**0.0706**	J	mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
62-53-3	Aniline	ND		mg/kg dry	0.184	0.368	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
120-12-7	**Anthracene**	**0.451**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
92-87-5	Benzidine	ND		mg/kg dry	0.184	0.368	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
56-55-3	**Benzo(a)anthracene**	**1.05**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
50-32-8	**Benzo(a)pyrene**	**1.10**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
205-99-2	**Benzo(b)fluoranthene**	**0.886**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR

Sample Information

Client Sample ID: **SB-6 (0'-2')** **York Sample ID:** **18H0563-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:07 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	**Benzo(g,h,i)perylene**	**0.562**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
207-08-9	**Benzo(k)fluoranthene**	**0.903**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
86-74-8	**Carbazole**	**0.128**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
218-01-9	**Chrysene**	**1.09**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
53-70-3	**Dibenzo(a,h)anthracene**	**0.200**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
132-64-9	**Dibenzofuran**	**0.0757**	J	mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
206-44-0	**Fluoranthene**	**2.62**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
86-73-7	**Fluorene**	**0.148**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR

Sample Information

Client Sample ID: **SB-6 (0'-2')** **York Sample ID:** **18H0563-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:07 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.515**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
85-01-8	**Phenanthrene**	**1.98**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
108-95-2	Phenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
129-00-0	**Pyrene**	**2.20**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*67.7 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*70.0 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*76.7 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*64.1 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*69.6 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*71.7 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
50-29-3	**4,4'-DDT**	**0.00469**		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB

Sample Information

Client Sample ID: **SB-6 (0'-2')** **York Sample ID:** **18H0563-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:07 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 23:36	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0362	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
60-57-1	**Dieldrin**	**0.00242**		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/16/2018 23:36	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
72-20-8	**Endrin**	**0.00372**		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
7421-93-4	**Endrin aldehyde**	**0.00203**		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 23:36	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00904	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.0915	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*54.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*67.6 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

Sample Information

Client Sample ID: **SB-6 (0'-2')** **York Sample ID:** **18H0563-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:07 pm	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:04	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:04	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:04	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:04	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:04	LAB
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:04	LAB
11096-82-5	**Aroclor 1260**	**0.0302**		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:04	LAB
1336-36-3	*** Total PCBs**	**0.0302**		mg/kg dry	0.0183	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 18:04	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*61.9 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*57.2 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8850**	B	mg/kg dry	5.51	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:41	KML
7440-36-0	**Antimony**	**1.64**		mg/kg dry	0.551	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:41	KML
7440-38-2	**Arsenic**	**4.79**		mg/kg dry	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:41	KML
7440-39-3	**Barium**	**215**		mg/kg dry	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:41	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.110	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:41	KML
7440-43-9	**Cadmium**	**0.753**		mg/kg dry	0.331	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:41	KML
7440-70-2	**Calcium**	**10200**		mg/kg dry	5.51	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:41	KML
7440-47-3	**Chromium**	**17.0**		mg/kg dry	0.551	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:41	KML
7440-48-4	**Cobalt**	**7.60**		mg/kg dry	0.551	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:41	KML

Sample Information

Client Sample ID: **SB-6 (0'-2')** **York Sample ID:** **18H0563-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:07 pm	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**46.8**		mg/kg dry	0.551	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**14600**		mg/kg dry	2.21	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**328**		mg/kg dry	0.551	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**3340**		mg/kg dry	5.51	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**240**		mg/kg dry	0.551	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**16.7**		mg/kg dry	0.551	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1460**		mg/kg dry	5.51	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.10	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.551	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**311**	B	mg/kg dry	11.0	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.10	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**19.9**		mg/kg dry	1.10	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**262**		mg/kg dry	1.65	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.286**		mg/kg dry	0.0331	1	EPA 7473	08/20/2018 09:08	08/20/2018 13:32	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**90.7**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB-6 (10'-12')** **York Sample ID:** **18H0563-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:25 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 11:33	08/16/2018 11:33	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 11:33	08/16/2018 11:33	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.063	0.13	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
78-93-3	**2-Butanone**	**0.021**		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL

Sample Information

Client Sample ID: **SB-6 (10'-12')** **York Sample ID:** **18H0563-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:25 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.14**		mg/kg dry	0.0063	0.013	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0063	0.013	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-6 (10'-12')** **York Sample ID:** **18H0563-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:25 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0063	0.013	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0063	0.013	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
100-42-5	Styrene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
75-65-0	**tert-Butyl alcohol (TBA)**	**0.010**		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
108-88-3	Toluene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH	08/16/2018 11:33	08/16/2018 11:33	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0094	0.019	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 11:33	08/16/2018 11:33	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*93.1 %*	*77-125*

Sample Information

Client Sample ID: **SB-6 (10'-12')** **York Sample ID:** **18H0563-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:25 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*96.5 %*			*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*105 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR

Sample Information

Client Sample ID: **SB-6 (10'-12')** **York Sample ID:** **18H0563-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:25 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
83-32-9	Acenaphthene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
62-53-3	Aniline	ND		mg/kg dry	0.210	0.420	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
120-12-7	Anthracene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
92-87-5	Benzidine	ND		mg/kg dry	0.210	0.420	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
56-55-3	**Benzo(a)anthracene**	**0.143**		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
50-32-8	**Benzo(a)pyrene**	**0.165**		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
205-99-2	**Benzo(b)fluoranthene**	**0.139**		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR

Sample Information

Client Sample ID: **SB-6 (10'-12')** **York Sample ID:** **18H0563-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:25 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	**Benzo(g,h,i)perylene**	**0.104**	J	mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
207-08-9	**Benzo(k)fluoranthene**	**0.153**		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.225**		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
86-74-8	Carbazole	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
218-01-9	**Chrysene**	**0.160**		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
206-44-0	**Fluoranthene**	**0.328**		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
86-73-7	Fluorene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR

Sample Information

Client Sample ID: **SB-6 (10'-12')** **York Sample ID:** **18H0563-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:25 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.0880**	J	mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
85-01-8	**Phenanthrene**	**0.238**		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
108-95-2	Phenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
129-00-0	**Pyrene**	**0.286**		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*62.1 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*65.2 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*79.4 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*65.0 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*38.0 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*80.6 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB

Sample Information

Client Sample ID: **SB-6 (10'-12')** **York Sample ID:** **18H0563-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:25 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 23:51	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0415	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
60-57-1	Dieldrin	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/16/2018 23:51	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
72-20-8	Endrin	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 23:51	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.0104	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.105	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*65.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*72.6 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

Sample Information

Client Sample ID: **SB-6 (10'-12')** **York Sample ID:** **18H0563-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:25 pm	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0209	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:28	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0209	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:28	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0209	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:28	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0209	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:28	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0209	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:28	LAB
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0209	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:28	LAB
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0209	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:28	LAB
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0209	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 18:28	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*66.8 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*63.7 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**23400**	B	mg/kg dry	6.29	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:43	KML
7440-36-0	**Antimony**	**4.71**		mg/kg dry	0.629	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:43	KML
7440-38-2	**Arsenic**	**7.07**		mg/kg dry	1.26	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:43	KML
7440-39-3	**Barium**	**879**		mg/kg dry	1.26	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:43	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.126	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:43	KML
7440-43-9	**Cadmium**	**1.08**		mg/kg dry	0.377	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:43	KML
7440-70-2	**Calcium**	**16700**		mg/kg dry	6.29	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:43	KML
7440-47-3	**Chromium**	**58.1**		mg/kg dry	0.629	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:43	KML
7440-48-4	**Cobalt**	**26.4**		mg/kg dry	0.629	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:43	KML

Sample Information

Client Sample ID: **SB-6 (10'-12')** **York Sample ID:** **18H0563-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:25 pm	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**43.9**		mg/kg dry	0.629	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**45400**		mg/kg dry	2.52	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**92.2**		mg/kg dry	0.629	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**14100**		mg/kg dry	6.29	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**650**		mg/kg dry	0.629	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**47.2**		mg/kg dry	0.629	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**15000**		mg/kg dry	6.29	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.26	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.629	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**424**	B	mg/kg dry	12.6	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.26	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**73.3**		mg/kg dry	1.26	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**232**		mg/kg dry	1.89	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0860**		mg/kg dry	0.0377	1	EPA 7473	08/20/2018 09:08	08/20/2018 14:00	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**79.5**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB-7 (0'-2')** **York Sample ID:** **18H0563-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:15 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 12:03	08/16/2018 12:03	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 12:03	08/16/2018 12:03	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.054	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
78-93-3	2-Butanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL

Sample Information

Client Sample ID: **SB-7 (0'-2')** **York Sample ID:** **18H0563-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:15 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.036**		mg/kg dry	0.0054	0.011	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-7 (0'-2')** **York Sample ID:** **18H0563-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:15 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
75-65-0	**tert-Butyl alcohol (TBA)**	**0.0065**		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH	08/16/2018 12:03	08/16/2018 12:03	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0082	0.016	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 12:03	08/16/2018 12:03	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*89.4 %*	*77-125*

Sample Information

Client Sample ID: **SB-7 (0'-2')** **York Sample ID:** **18H0563-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:15 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*100 %*			*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*104 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	**1,1-Biphenyl**	**0.0588**	J	mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0908	0.181	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0908	0.181	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0908	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
91-57-6	**2-Methylnaphthalene**	**0.139**		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR

Sample Information

Client Sample ID: **SB-7 (0'-2')** **York Sample ID:** **18H0563-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:15 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0908	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0908	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0908	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0908	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0908	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
83-32-9	**Acenaphthene**	**1.34**		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
208-96-8	**Acenaphthylene**	**0.100**		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
62-53-3	Aniline	ND		mg/kg dry	0.182	0.364	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
120-12-7	**Anthracene**	**3.22**		mg/kg dry	0.455	0.908	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 14:16	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
92-87-5	Benzidine	ND		mg/kg dry	0.182	0.364	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
56-55-3	**Benzo(a)anthracene**	**5.77**		mg/kg dry	0.455	0.908	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 14:16	SR
50-32-8	**Benzo(a)pyrene**	**5.64**		mg/kg dry	0.455	0.908	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 14:16	SR
205-99-2	**Benzo(b)fluoranthene**	**4.48**		mg/kg dry	0.455	0.908	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 14:16	SR

Sample Information

Client Sample ID: **SB-7 (0'-2')** **York Sample ID:** **18H0563-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:15 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	**Benzo(g,h,i)perylene**	**2.89**		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
207-08-9	**Benzo(k)fluoranthene**	**4.59**		mg/kg dry	0.455	0.908	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 14:16	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0908	0.181	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
86-74-8	**Carbazole**	**1.19**		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
218-01-9	**Chrysene**	**6.09**		mg/kg dry	0.455	0.908	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 14:16	SR
53-70-3	**Dibenzo(a,h)anthracene**	**1.09**		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
132-64-9	**Dibenzofuran**	**0.576**		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
206-44-0	**Fluoranthene**	**14.6**		mg/kg dry	0.455	0.908	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 14:16	SR
86-73-7	**Fluorene**	**1.20**		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR

Sample Information

Client Sample ID: **SB-7 (0'-2')** **York Sample ID:** **18H0563-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:15 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**2.84**		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
91-20-3	**Naphthalene**	**0.370**		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
85-01-8	**Phenanthrene**	**12.5**		mg/kg dry	0.455	0.908	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 14:16	SR
108-95-2	Phenol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
129-00-0	**Pyrene**	**12.4**		mg/kg dry	0.455	0.908	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 14:16	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*58.7 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*62.5 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*65.9 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*60.7 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*55.6 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*66.2 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
72-55-9	**4,4'-DDE**	**0.00241**		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
50-29-3	**4,4'-DDT**	**0.0114**		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB

Sample Information

Client Sample ID: **SB-7 (0'-2')** **York Sample ID:** **18H0563-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:15 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/17/2018 14:38	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0358	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
60-57-1	**Dieldrin**	**0.00381**		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/17/2018 14:38	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
72-20-8	Endrin	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
53494-70-5	**Endrin ketone**	**0.00763**		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/17/2018 14:38	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00895	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.0906	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*45.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*43.8 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

Sample Information

Client Sample ID: **SB-7 (0'-2')** **York Sample ID:** **18H0563-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:15 pm	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:53	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:53	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:53	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:53	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:53	LAB
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:53	LAB
11096-82-5	**Aroclor 1260**	**0.109**		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:53	LAB
1336-36-3	*** Total PCBs**	**0.109**		mg/kg dry	0.0181	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 18:53	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*55.9 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*53.7 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8210**	B	mg/kg dry	5.45	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:45	KML
7440-36-0	**Antimony**	**1.77**		mg/kg dry	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:45	KML
7440-38-2	**Arsenic**	**6.33**		mg/kg dry	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:45	KML
7440-39-3	**Barium**	**179**		mg/kg dry	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:45	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.109	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:45	KML
7440-43-9	**Cadmium**	**0.574**		mg/kg dry	0.327	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:45	KML
7440-70-2	**Calcium**	**23200**		mg/kg dry	5.45	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:45	KML
7440-47-3	**Chromium**	**19.0**		mg/kg dry	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:45	KML
7440-48-4	**Cobalt**	**8.52**		mg/kg dry	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:45	KML

Sample Information

Client Sample ID: **SB-7 (0'-2')** **York Sample ID:** **18H0563-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:15 pm	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**103**		mg/kg dry	0.545	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**19600**		mg/kg dry	2.18	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**358**		mg/kg dry	0.545	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**5600**		mg/kg dry	5.45	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**299**		mg/kg dry	0.545	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**20.9**		mg/kg dry	0.545	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**2010**		mg/kg dry	5.45	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.09	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.545	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**572**	B	mg/kg dry	10.9	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.09	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**26.4**		mg/kg dry	1.09	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**253**		mg/kg dry	1.63	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.694**		mg/kg dry	0.0327	1	EPA 7473	08/20/2018 09:08	08/20/2018 14:09	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.8**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB-7 (10'-12')** **York Sample ID:** **18H0563-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:40 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 12:33	08/16/2018 12:33	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
87-61-6	1,2,3-Trichlorobenzene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
96-18-4	1,2,3-Trichloropropane	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 12:33	08/16/2018 12:33	LL
120-82-1	1,2,4-Trichlorobenzene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
95-63-6	1,2,4-Trimethylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.055	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
78-93-3	**2-Butanone**	**0.0090**		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL

Sample Information

Client Sample ID: **SB-7 (10'-12')** **York Sample ID:** **18H0563-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:40 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.099**		mg/kg dry	0.0055	0.011	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0055	0.011	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	**Benzene**	**0.0029**	J	mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	**Carbon disulfide**	**0.0039**	J	mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	**Cyclohexane**	**0.023**		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-7 (10'-12')** **York Sample ID:** **18H0563-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:40 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
108-87-2	**Methylcyclohexane**	**0.058**		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0055	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
104-51-8	n-Butylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
103-65-1	n-Propylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0055	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
99-87-6	p-Isopropyltoluene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
135-98-8	sec-Butylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
75-65-0	**tert-Butyl alcohol (TBA)**	**0.010**		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
98-06-6	tert-Butylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH	08/16/2018 12:33	08/16/2018 12:33	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0082	0.016	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 12:33	08/16/2018 12:33	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*91.3 %*	*77-125*

Sample Information

Client Sample ID: **SB-7 (10'-12')** **York Sample ID:** **18H0563-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:40 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*135 %*	S-08		*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*129 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR

Sample Information

Client Sample ID: **SB-7 (10'-12')** **York Sample ID:** **18H0563-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:40 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
83-32-9	**Acenaphthene**	**0.0998**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
208-96-8	**Acenaphthylene**	**0.0685**	J	mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
62-53-3	Aniline	ND		mg/kg dry	0.182	0.365	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
120-12-7	**Anthracene**	**0.299**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
92-87-5	Benzidine	ND		mg/kg dry	0.182	0.365	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
56-55-3	**Benzo(a)anthracene**	**1.10**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
50-32-8	**Benzo(a)pyrene**	**1.32**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
205-99-2	**Benzo(b)fluoranthene**	**0.924**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR

Sample Information

Client Sample ID: **SB-7 (10'-12')** **York Sample ID:** **18H0563-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:40 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	**Benzo(g,h,i)perylene**	**0.653**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
207-08-9	**Benzo(k)fluoranthene**	**0.928**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.263**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
86-74-8	Carbazole	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
218-01-9	**Chrysene**	**1.21**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
53-70-3	**Dibenzo(a,h)anthracene**	**0.216**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
206-44-0	**Fluoranthene**	**1.91**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
86-73-7	**Fluorene**	**0.0845**	J	mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR

Sample Information

Client Sample ID: **SB-7 (10'-12')** **York Sample ID:** **18H0563-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:40 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.538**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
85-01-8	**Phenanthrene**	**1.15**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
108-95-2	Phenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
129-00-0	**Pyrene**	**2.26**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*52.6 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*53.4 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*60.9 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*54.6 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*43.4 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*65.1 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB

Sample Information

Client Sample ID: **SB-7 (10'-12')** **York Sample ID:** **18H0563-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:40 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/17/2018 14:23	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0358	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
60-57-1	Dieldrin	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/17/2018 14:23	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
72-20-8	Endrin	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/17/2018 14:23	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00896	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.0907	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*39.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*37.2 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

Sample Information

Client Sample ID: **SB-7 (10'-12')** **York Sample ID:** **18H0563-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:40 pm	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:17	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:17	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:17	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:17	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:17	LAB
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:17	LAB
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:17	LAB
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 19:17	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*44.1 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*51.7 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7370**	B	mg/kg dry	5.46	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:47	KML
7440-36-0	**Antimony**	**4.44**		mg/kg dry	0.546	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:47	KML
7440-38-2	**Arsenic**	**6.39**		mg/kg dry	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:47	KML
7440-39-3	**Barium**	**104**		mg/kg dry	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:47	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.109	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:47	KML
7440-43-9	**Cadmium**	**0.642**		mg/kg dry	0.328	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:47	KML
7440-70-2	**Calcium**	**50400**		mg/kg dry	5.46	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:47	KML
7440-47-3	**Chromium**	**21.1**		mg/kg dry	0.546	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:47	KML
7440-48-4	**Cobalt**	**7.21**		mg/kg dry	0.546	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:47	KML

Sample Information

Client Sample ID: **SB-7 (10'-12')** **York Sample ID:** **18H0563-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:40 pm	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**98.6**		mg/kg dry	0.546	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**22800**		mg/kg dry	2.19	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**338**		mg/kg dry	0.546	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**5110**		mg/kg dry	5.46	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**351**		mg/kg dry	0.546	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**17.9**		mg/kg dry	0.546	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1620**		mg/kg dry	5.46	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.09	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.546	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**462**	B	mg/kg dry	10.9	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.09	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**21.1**		mg/kg dry	1.09	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**210**		mg/kg dry	1.64	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.583**		mg/kg dry	0.0328	1	EPA 7473	08/20/2018 09:08	08/20/2018 14:22	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.5**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB-8 (0'-2')** **York Sample ID:** **18H0563-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:20 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 13:03	08/16/2018 13:03	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 13:03	08/16/2018 13:03	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.055	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
78-93-3	2-Butanone	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL

Sample Information

Client Sample ID: **SB-8 (0'-2')** **York Sample ID:** **18H0563-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:20 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.019**		mg/kg dry	0.0055	0.011	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0055	0.011	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-8 (0'-2')** **York Sample ID:** **18H0563-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:20 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
75-09-2	**Methylene chloride**	**0.0079**	J	mg/kg dry	0.0055	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0055	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
127-18-4	**Tetrachloroethylene**	**0.014**		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH	08/16/2018 13:03	08/16/2018 13:03	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0082	0.016	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 13:03	08/16/2018 13:03	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*89.1 %*	*77-125*

Sample Information

Client Sample ID: **SB-8 (0'-2')** **York Sample ID:** **18H0563-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:20 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*106 %*			*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*117 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0912	0.182	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0912	0.182	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0912	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR

Sample Information

Client Sample ID: **SB-8 (0'-2')** **York Sample ID:** **18H0563-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:20 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0912	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0912	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0912	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0912	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0912	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
83-32-9	Acenaphthene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
208-96-8	**Acenaphthylene**	**0.144**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
62-53-3	Aniline	ND		mg/kg dry	0.183	0.365	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
120-12-7	**Anthracene**	**0.174**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
92-87-5	Benzidine	ND		mg/kg dry	0.183	0.365	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
56-55-3	**Benzo(a)anthracene**	**1.00**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
50-32-8	**Benzo(a)pyrene**	**1.11**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
205-99-2	**Benzo(b)fluoranthene**	**0.876**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR

Sample Information

Client Sample ID: **SB-8 (0'-2')** **York Sample ID:** **18H0563-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:20 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	**Benzo(g,h,i)perylene**	**0.543**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
207-08-9	**Benzo(k)fluoranthene**	**0.918**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0912	0.182	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
86-74-8	Carbazole	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
218-01-9	**Chrysene**	**0.982**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
53-70-3	**Dibenzo(a,h)anthracene**	**0.215**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
206-44-0	**Fluoranthene**	**1.65**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
86-73-7	Fluorene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR

Sample Information

Client Sample ID: **SB-8 (0'-2')** **York Sample ID:** **18H0563-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:20 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.532**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
85-01-8	**Phenanthrene**	**0.351**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
108-95-2	Phenol	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
129-00-0	**Pyrene**	**1.56**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*62.0 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*64.8 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*80.0 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*66.0 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*69.8 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*80.5 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	**4,4'-DDD**	**0.0591**		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
72-55-9	**4,4'-DDE**	**0.0562**		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
50-29-3	**4,4'-DDT**	**0.179**		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB

Sample Information

Client Sample ID: **SB-8 (0'-2')** **York Sample ID:** **18H0563-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:20 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	**Aldrin**	**0.00376**		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
319-84-6	alpha-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/17/2018 13:53	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0360	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
60-57-1	Dieldrin	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/17/2018 13:53	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
72-20-8	Endrin	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/17/2018 13:53	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00901	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.0911	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*40.4 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*38.8 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB-8 (0'-2')** **York Sample ID:** **18H0563-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:20 pm	08/13/2018

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:41	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:41	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:41	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:41	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:41	LAB
11097-69-1	**Aroclor 1254**	**0.571**		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:41	LAB
11096-82-5	**Aroclor 1260**	**0.387**		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:41	LAB
1336-36-3	*** Total PCBs**	**0.958**		mg/kg dry	0.0182	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 19:41	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*46.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*35.8 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**11700**	B	mg/kg dry	5.48	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:49	KML
7440-36-0	**Antimony**	**1.84**		mg/kg dry	0.548	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:49	KML
7440-38-2	**Arsenic**	**6.07**		mg/kg dry	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:49	KML
7440-39-3	**Barium**	**166**		mg/kg dry	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:49	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.110	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:49	KML
7440-43-9	**Cadmium**	**0.710**		mg/kg dry	0.329	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:49	KML
7440-70-2	**Calcium**	**24000**		mg/kg dry	5.48	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:49	KML
7440-47-3	**Chromium**	**21.3**		mg/kg dry	0.548	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:49	KML
7440-48-4	**Cobalt**	**15.6**		mg/kg dry	0.548	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:49	KML
7440-50-8	**Copper**	**39.4**		mg/kg dry	0.548	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:49	KML

Sample Information

Client Sample ID: **SB-8 (0'-2')** **York Sample ID:** **18H0563-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:20 pm	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	**Iron**	**18400**		mg/kg dry	2.19	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:49	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**225**		mg/kg dry	0.548	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:49	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**7260**		mg/kg dry	5.48	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:49	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**834**		mg/kg dry	0.548	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:49	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**25.5**		mg/kg dry	0.548	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:49	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**2740**		mg/kg dry	5.48	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:49	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.10	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:49	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.548	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:49	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**268**	B	mg/kg dry	11.0	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:49	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.10	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:49	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**26.7**		mg/kg dry	1.10	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:49	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**554**		mg/kg dry	1.65	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:49	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**1.71**		mg/kg dry	0.0329	1	EPA 7473	08/20/2018 09:08	08/20/2018 14:34	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.2**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB-8 (17'-19')** **York Sample ID:** **18H0563-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:35 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/17/2018 11:18	08/17/2018 11:18	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/17/2018 11:18	08/17/2018 11:18	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.053	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
78-93-3	**2-Butanone**	**0.0039**	J	mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL

Sample Information

Client Sample ID: **SB-8 (17'-19')** **York Sample ID:** **18H0563-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:35 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.027**		mg/kg dry	0.0053	0.011	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0053	0.011	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-8 (17'-19')** **York Sample ID:** **18H0563-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:35 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0053	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0053	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
127-18-4	**Tetrachloroethylene**	**0.012**		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH	08/17/2018 11:18	08/17/2018 11:18	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0080	0.016	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/17/2018 11:18	08/17/2018 11:18	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*92.3 %*	*77-125*

Sample Information

Client Sample ID: **SB-8 (17'-19')** **York Sample ID:** **18H0563-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:35 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*104 %*			*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*111 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0885	0.177	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0885	0.177	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0885	0.177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR

Sample Information

Client Sample ID: **SB-8 (17'-19')** **York Sample ID:** **18H0563-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:35 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0885	0.177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0885	0.177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0885	0.177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0885	0.177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0885	0.177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
83-32-9	**Acenaphthene**	**0.0481**	J	mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
62-53-3	Aniline	ND		mg/kg dry	0.177	0.354	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
120-12-7	**Anthracene**	**0.166**		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
92-87-5	Benzidine	ND		mg/kg dry	0.177	0.354	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
56-55-3	**Benzo(a)anthracene**	**0.395**		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
50-32-8	**Benzo(a)pyrene**	**0.377**		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
205-99-2	**Benzo(b)fluoranthene**	**0.291**		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR

Sample Information

Client Sample ID: **SB-8 (17'-19')** **York Sample ID:** **18H0563-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:35 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	**Benzo(g,h,i)perylene**	**0.189**		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
207-08-9	**Benzo(k)fluoranthene**	**0.310**		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.273**		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0885	0.177	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
86-74-8	Carbazole	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
218-01-9	**Chrysene**	**0.413**		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
53-70-3	**Dibenzo(a,h)anthracene**	**0.0637**	J	mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
206-44-0	**Fluoranthene**	**0.726**		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
86-73-7	**Fluorene**	**0.0502**	J	mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR

Sample Information

Client Sample ID: **SB-8 (17'-19')** **York Sample ID:** **18H0563-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:35 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.160**		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
85-01-8	**Phenanthrene**	**0.675**		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
108-95-2	Phenol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
129-00-0	**Pyrene**	**0.786**		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*51.7 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*50.8 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*58.6 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*56.9 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*53.4 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*78.6 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
50-29-3	**4,4'-DDT**	**0.00248**		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB

Sample Information

Client Sample ID: **SB-8 (17'-19')** **York Sample ID:** **18H0563-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:35 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/17/2018 00:06	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0349	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
60-57-1	Dieldrin	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/17/2018 00:06	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
72-20-8	**Endrin**	**0.00328**		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/17/2018 00:06	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00873	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.0884	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*58.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*47.0 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

Sample Information

Client Sample ID: **SB-8 (17'-19')** **York Sample ID:** **18H0563-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:35 pm	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 20:05	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 20:05	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 20:05	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 20:05	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 20:05	LAB
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 20:05	LAB
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 20:05	LAB
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 20:05	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*43.1 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*43.8 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**12200**	B	mg/kg dry	5.31	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:51	KML
7440-36-0	**Antimony**	**2.94**		mg/kg dry	0.531	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:51	KML
7440-38-2	**Arsenic**	**13.0**		mg/kg dry	1.06	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:51	KML
7440-39-3	**Barium**	**194**		mg/kg dry	1.06	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:51	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.106	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:51	KML
7440-43-9	**Cadmium**	**5.02**		mg/kg dry	0.318	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:51	KML
7440-70-2	**Calcium**	**35800**		mg/kg dry	5.31	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:51	KML
7440-47-3	**Chromium**	**27.8**		mg/kg dry	0.531	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:51	KML
7440-48-4	**Cobalt**	**13.6**		mg/kg dry	0.531	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:51	KML

Sample Information

Client Sample ID: **SB-8 (17'-19')** **York Sample ID:** **18H0563-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:35 pm	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**81.2**		mg/kg dry	0.531	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**29000**		mg/kg dry	2.12	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**273**		mg/kg dry	0.531	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**7230**		mg/kg dry	5.31	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**393**		mg/kg dry	0.531	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**27.6**		mg/kg dry	0.531	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**4510**		mg/kg dry	5.31	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.06	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.531	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**435**	B	mg/kg dry	10.6	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.06	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**31.2**		mg/kg dry	1.06	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**2110**		mg/kg dry	1.59	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.780**		mg/kg dry	0.0318	1	EPA 7473	08/20/2018 09:08	08/20/2018 14:46	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**94.2**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Analytical Batch Summary

Batch ID: BH80723 **Preparation Method:** EPA 3050B **Prepared By:** BML

YORK Sample ID	Client Sample ID	Preparation Date
18H0563-01	SB-1 (0'-2')	08/15/18
18H0563-02	SB-1 (21'-23')	08/15/18
18H0563-03	SB-2 (0'-2')	08/15/18
18H0563-04	SB-2 (21'-23')	08/15/18
18H0563-05	SB-3 (0'-2')	08/15/18
18H0563-06	SB-4 (0'-2')	08/15/18
18H0563-07	SB-4 (17'-19')	08/15/18
18H0563-08	SB-5 (0'-2')	08/15/18
BH80723-BLK1	Blank	08/15/18
BH80723-SRM1	Reference	08/15/18

Batch ID: BH80724 **Preparation Method:** EPA 3050B **Prepared By:** BML

YORK Sample ID	Client Sample ID	Preparation Date
18H0563-09	SB-5 (10'-12')	08/15/18
18H0563-10	SB-6 (0'-2')	08/15/18
18H0563-11	SB-6 (10'-12')	08/15/18
18H0563-12	SB-7 (0'-2')	08/15/18
18H0563-13	SB-7 (10'-12')	08/15/18
18H0563-14	SB-8 (0'-2')	08/15/18
18H0563-15	SB-8 (17'-19')	08/15/18
BH80724-BLK1	Blank	08/15/18
BH80724-SRM1	Reference	08/15/18

Batch ID: BH80762 **Preparation Method:** EPA 3550C **Prepared By:** MAT

YORK Sample ID	Client Sample ID	Preparation Date
18H0563-01	SB-1 (0'-2')	08/15/18
18H0563-01	SB-1 (0'-2')	08/15/18
18H0563-02	SB-1 (21'-23')	08/15/18
18H0563-02	SB-1 (21'-23')	08/15/18
18H0563-03	SB-2 (0'-2')	08/15/18
18H0563-03	SB-2 (0'-2')	08/15/18
18H0563-04	SB-2 (21'-23')	08/15/18
18H0563-04	SB-2 (21'-23')	08/15/18
18H0563-05	SB-3 (0'-2')	08/15/18
18H0563-05	SB-3 (0'-2')	08/15/18
18H0563-06	SB-4 (0'-2')	08/15/18
18H0563-06	SB-4 (0'-2')	08/15/18
18H0563-07	SB-4 (17'-19')	08/15/18
18H0563-07	SB-4 (17'-19')	08/15/18
18H0563-08	SB-5 (0'-2')	08/15/18
18H0563-08	SB-5 (0'-2')	08/15/18
18H0563-09	SB-5 (10'-12')	08/15/18
18H0563-09	SB-5 (10'-12')	08/15/18

18H0563-10	SB-6 (0'-2')	08/15/18
18H0563-10	SB-6 (0'-2')	08/15/18
18H0563-11	SB-6 (10'-12')	08/15/18
18H0563-11	SB-6 (10'-12')	08/15/18
18H0563-12	SB-7 (0'-2')	08/15/18
18H0563-12	SB-7 (0'-2')	08/15/18
18H0563-13	SB-7 (10'-12')	08/15/18
18H0563-13	SB-7 (10'-12')	08/15/18
18H0563-14	SB-8 (0'-2')	08/15/18
18H0563-14	SB-8 (0'-2')	08/15/18
18H0563-15	SB-8 (17'-19')	08/15/18
18H0563-15	SB-8 (17'-19')	08/15/18
BH80762-BLK1	Blank	08/15/18
BH80762-BLK2	Blank	08/15/18
BH80762-BS1	LCS	08/15/18
BH80762-BS2	LCS	08/15/18

Batch ID: BH80763 **Preparation Method:** EPA 3550C **Prepared By:** AB

YORK Sample ID	Client Sample ID	Preparation Date
18H0563-12	SB-7 (0'-2')	08/15/18
18H0563-12RE1	SB-7 (0'-2')	08/15/18
18H0563-13	SB-7 (10'-12')	08/15/18
18H0563-14	SB-8 (0'-2')	08/15/18
18H0563-15	SB-8 (17'-19')	08/15/18
BH80763-BLK1	Blank	08/15/18
BH80763-BS1	LCS	08/15/18
BH80763-MS1	Matrix Spike	08/15/18
BH80763-MSD1	Matrix Spike Dup	08/15/18

Batch ID: BH80799 **Preparation Method:** EPA 3550C **Prepared By:** SGM

YORK Sample ID	Client Sample ID	Preparation Date
18H0563-01	SB-1 (0'-2')	08/16/18
18H0563-02	SB-1 (21'-23')	08/16/18
18H0563-03	SB-2 (0'-2')	08/16/18
18H0563-04	SB-2 (21'-23')	08/16/18
18H0563-05	SB-3 (0'-2')	08/16/18
18H0563-06	SB-4 (0'-2')	08/16/18
18H0563-07	SB-4 (17'-19')	08/16/18
18H0563-08	SB-5 (0'-2')	08/16/18
18H0563-09	SB-5 (10'-12')	08/16/18
18H0563-10	SB-6 (0'-2')	08/16/18
18H0563-11	SB-6 (10'-12')	08/16/18
BH80799-BLK1	Blank	08/16/18
BH80799-BS1	LCS	08/16/18
BH80799-MS1	Matrix Spike	08/16/18
BH80799-MSD1	Matrix Spike Dup	08/16/18

Batch ID: BH80889 **Preparation Method:** % Solids Prep **Prepared By:** TAJ

YORK Sample ID	Client Sample ID	Preparation Date
18H0563-01	SB-1 (0'-2')	08/17/18
18H0563-02	SB-1 (21'-23')	08/17/18
18H0563-03	SB-2 (0'-2')	08/17/18
18H0563-04	SB-2 (21'-23')	08/17/18
18H0563-05	SB-3 (0'-2')	08/17/18
18H0563-06	SB-4 (0'-2')	08/17/18
18H0563-07	SB-4 (17'-19')	08/17/18
18H0563-08	SB-5 (0'-2')	08/17/18
18H0563-09	SB-5 (10'-12')	08/17/18
18H0563-10	SB-6 (0'-2')	08/17/18
18H0563-11	SB-6 (10'-12')	08/17/18
18H0563-12	SB-7 (0'-2')	08/17/18
18H0563-13	SB-7 (10'-12')	08/17/18
18H0563-14	SB-8 (0'-2')	08/17/18
18H0563-15	SB-8 (17'-19')	08/17/18

Batch ID: BH80900 **Preparation Method:** EPA 5035A **Prepared By:** LDS

YORK Sample ID	Client Sample ID	Preparation Date
18H0563-01	SB-1 (0'-2')	08/16/18
18H0563-02	SB-1 (21'-23')	08/16/18
18H0563-03	SB-2 (0'-2')	08/16/18
18H0563-04	SB-2 (21'-23')	08/16/18
18H0563-05	SB-3 (0'-2')	08/16/18
18H0563-06	SB-4 (0'-2')	08/16/18
18H0563-07	SB-4 (17'-19')	08/16/18
18H0563-08	SB-5 (0'-2')	08/16/18
18H0563-09	SB-5 (10'-12')	08/16/18
18H0563-10	SB-6 (0'-2')	08/16/18
18H0563-11	SB-6 (10'-12')	08/16/18
18H0563-12	SB-7 (0'-2')	08/16/18
18H0563-13	SB-7 (10'-12')	08/16/18
18H0563-14	SB-8 (0'-2')	08/16/18
BH80900-BLK1	Blank	08/16/18
BH80900-BS1	LCS	08/16/18
BH80900-BSD1	LCS Dup	08/16/18

Batch ID: BH80935 **Preparation Method:** EPA 7473 soil **Prepared By:** KML

YORK Sample ID	Client Sample ID	Preparation Date
18H0563-01	SB-1 (0'-2')	08/20/18
18H0563-02	SB-1 (21'-23')	08/20/18
18H0563-03	SB-2 (0'-2')	08/20/18
18H0563-04	SB-2 (21'-23')	08/20/18
18H0563-05	SB-3 (0'-2')	08/20/18
18H0563-06	SB-4 (0'-2')	08/20/18
18H0563-07	SB-4 (17'-19')	08/20/18
18H0563-08	SB-5 (0'-2')	08/20/18
18H0563-09	SB-5 (10'-12')	08/20/18
18H0563-10	SB-6 (0'-2')	08/20/18

18H0563-11	SB-6 (10'-12')	08/20/18
18H0563-12	SB-7 (0'-2')	08/20/18
18H0563-13	SB-7 (10'-12')	08/20/18
18H0563-14	SB-8 (0'-2')	08/20/18
18H0563-15	SB-8 (17'-19')	08/20/18
BH80935-BLK1	Blank	08/20/18
BH80935-SRM1	Reference	08/20/18

Batch ID: BH80979 **Preparation Method:** EPA 5035A **Prepared By:** LDS

YORK Sample ID	Client Sample ID	Preparation Date
18H0563-15	SB-8 (17'-19')	08/17/18
BH80979-BLK1	Blank	08/17/18
BH80979-BS1	LCS	08/17/18
BH80979-BSD1	LCS Dup	08/17/18

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80900 - EPA 5035A											
Blank (BH80900-BLK1)								Prepared & Analyzed: 08/16/2018			
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80900 - EPA 5035A											
Blank (BH80900-BLK1)								Prepared & Analyzed: 08/16/2018			
n-Butylbenzene	ND	0.0050	mg/kg wet								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
trans-1,4-dichloro-2-butene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: 1,2-Dichloroethane-d4	*41.2*		*ug/L*	*50.0*		*82.5*	*77-125*				
Surrogate: Toluene-d8	*48.9*		*"*	*50.0*		*97.8*	*85-120*				
Surrogate: p-Bromofluorobenzene	*52.5*		*"*	*50.0*		*105*	*76-130*				
LCS (BH80900-BS1)								Prepared & Analyzed: 08/16/2018			
1,1,1,2-Tetrachloroethane	52		ug/L	50.0		105	75-129				
1,1,1-Trichloroethane	45		"	50.0		90.4	71-137				
1,1,2,2-Tetrachloroethane	57		"	50.0		115	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	42		"	50.0		84.7	58-146				
1,1,2-Trichloroethane	50		"	50.0		101	83-123				
1,1-Dichloroethane	45		"	50.0		90.3	75-130				
1,1-Dichloroethylene	41		"	50.0		82.3	64-137				
1,2,3-Trichlorobenzene	57		"	50.0		113	81-140				
1,2,3-Trichloropropane	56		"	50.0		112	81-126				
1,2,4-Trichlorobenzene	57		"	50.0		115	80-141				
1,2,4-Trimethylbenzene	55		"	50.0		110	84-125				
1,2-Dibromo-3-chloropropane	58		"	50.0		117	74-142				
1,2-Dibromoethane	53		"	50.0		105	86-123				
1,2-Dichlorobenzene	53		"	50.0		106	85-122				
1,2-Dichloroethane	41		"	50.0		81.4	71-133				
1,2-Dichloropropane	50		"	50.0		100	81-122				
1,3,5-Trimethylbenzene	54		"	50.0		108	82-126				
1,3-Dichlorobenzene	54		"	50.0		108	84-124				
1,4-Dichlorobenzene	55		"	50.0		109	84-124				
1,4-Dioxane	370		"	1050		35.6	10-228				
2-Butanone	48		"	50.0		95.6	58-147				
2-Hexanone	50		"	50.0		99.3	70-139				
4-Methyl-2-pentanone	36		"	50.0		72.4	72-132				
Acetone	32		"	50.0		63.6	36-155				
Acrolein	30		"	50.0		59.4	10-238				
Acrylonitrile	45		"	50.0		89.3	66-141				
Benzene	47		"	50.0		93.6	77-127				
Bromochloromethane	46		"	50.0		91.6	74-129				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80900 - EPA 5035A											
LCS (BH80900-BS1)							Prepared & Analyzed: 08/16/2018				
Bromodichloromethane	50		ug/L	50.0		99.6	81-124				
Bromoform	58		"	50.0		116	80-136				
Bromomethane	23		"	50.0		45.2	32-177				
Carbon disulfide	43		"	50.0		85.1	10-136				
Carbon tetrachloride	46		"	50.0		92.4	66-143				
Chlorobenzene	50		"	50.0		100	86-120				
Chloroethane	23		"	50.0		46.8	51-142	Low Bias			
Chloroform	45		"	50.0		90.6	76-131				
Chloromethane	27		"	50.0		53.1	49-132				
cis-1,2-Dichloroethylene	45		"	50.0		90.7	74-132				
cis-1,3-Dichloropropylene	52		"	50.0		104	81-129				
Cyclohexane	40		"	50.0		79.8	70-130				
Dibromochloromethane	51		"	50.0		102	10-200				
Dibromomethane	48		"	50.0		95.7	83-124				
Dichlorodifluoromethane	54		"	50.0		108	28-158				
Ethyl Benzene	50		"	50.0		100	84-125				
Hexachlorobutadiene	56		"	50.0		111	83-133				
Isopropylbenzene	54		"	50.0		109	81-127				
Methyl acetate	40		"	50.0		80.6	41-143				
Methyl tert-butyl ether (MTBE)	43		"	50.0		86.8	74-131				
Methylcyclohexane	50		"	50.0		100	70-130				
Methylene chloride	42		"	50.0		84.2	57-141				
n-Butylbenzene	52		"	50.0		105	80-130				
n-Propylbenzene	55		"	50.0		109	74-136				
o-Xylene	49		"	50.0		97.6	83-123				
p- & m- Xylenes	94		"	100		93.6	82-128				
p-Isopropyltoluene	55		"	50.0		110	85-125				
sec-Butylbenzene	57		"	50.0		114	83-125				
Styrene	48		"	50.0		96.8	86-126				
tert-Butyl alcohol (TBA)	190		"	250		77.3	70-130				
tert-Butylbenzene	49		"	50.0		98.6	80-127				
Tetrachloroethylene	39		"	50.0		78.0	80-129	Low Bias			
Toluene	49		"	50.0		97.6	85-121				
trans-1,2-Dichloroethylene	43		"	50.0		86.0	72-132				
trans-1,3-Dichloropropylene	51		"	50.0		101	78-132				
trans-1,4-dichloro-2-butene	57		"	50.0		115	75-135				
Trichloroethylene	51		"	50.0		103	84-123				
Trichlorofluoromethane	24		"	50.0		48.1	62-140	Low Bias			
Vinyl Chloride	25		"	50.0		49.9	52-130	Low Bias			
Surrogate: 1,2-Dichloroethane-d4	*42.8*		*"*	*50.0*		*85.7*	*77-125*				
Surrogate: Toluene-d8	*48.9*		*"*	*50.0*		*97.7*	*85-120*				
Surrogate: p-Bromofluorobenzene	*55.5*		*"*	*50.0*		*111*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80900 - EPA 5035A											
LCS Dup (BH80900-BSD1)								Prepared & Analyzed: 08/16/2018			
1,1,1,2-Tetrachloroethane	50		ug/L	50.0		100	75-129		4.46	30	
1,1,1-Trichloroethane	44		"	50.0		87.4	71-137		3.37	30	
1,1,2,2-Tetrachloroethane	55		"	50.0		109	79-129		5.11	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	39		"	50.0		77.1	58-146		9.40	30	
1,1,2-Trichloroethane	49		"	50.0		97.9	83-123		3.06	30	
1,1-Dichloroethane	43		"	50.0		85.8	75-130		5.02	30	
1,1-Dichloroethylene	38		"	50.0		76.1	64-137		7.83	30	
1,2,3-Trichlorobenzene	53		"	50.0		107	81-140		6.07	30	
1,2,3-Trichloropropane	54		"	50.0		108	81-126		4.18	30	
1,2,4-Trichlorobenzene	53		"	50.0		106	80-141		8.30	30	
1,2,4-Trimethylbenzene	51		"	50.0		102	84-125		7.43	30	
1,2-Dibromo-3-chloropropane	57		"	50.0		114	74-142		2.20	30	
1,2-Dibromoethane	51		"	50.0		102	86-123		2.96	30	
1,2-Dichlorobenzene	50		"	50.0		99.2	85-122		6.55	30	
1,2-Dichloroethane	41		"	50.0		81.4	71-133		0.0737	30	
1,2-Dichloropropane	47		"	50.0		93.8	81-122		6.54	30	
1,3,5-Trimethylbenzene	50		"	50.0		101	82-126		6.59	30	
1,3-Dichlorobenzene	51		"	50.0		102	84-124		5.42	30	
1,4-Dichlorobenzene	52		"	50.0		104	84-124		5.27	30	
1,4-Dioxane	360		"	1050		33.8	10-228		5.23	30	
2-Butanone	48		"	50.0		95.7	58-147		0.146	30	
2-Hexanone	50		"	50.0		100	70-139		0.883	30	
4-Methyl-2-pentanone	36		"	50.0		71.4	72-132	Low Bias	1.34	30	
Acetone	34		"	50.0		68.8	36-155		7.79	30	
Acrolein	28		"	50.0		56.1	10-238		5.82	30	
Acrylonitrile	45		"	50.0		89.6	66-141		0.380	30	
Benzene	45		"	50.0		90.3	77-127		3.57	30	
Bromochloromethane	44		"	50.0		88.1	74-129		3.96	30	
Bromodichloromethane	48		"	50.0		95.1	81-124		4.58	30	
Bromoform	55		"	50.0		110	80-136		4.89	30	
Bromomethane	24		"	50.0		47.8	32-177		5.42	30	
Carbon disulfide	41		"	50.0		81.8	10-136		3.95	30	
Carbon tetrachloride	44		"	50.0		87.2	66-143		5.79	30	
Chlorobenzene	48		"	50.0		96.3	86-120		3.99	30	
Chloroethane	23		"	50.0		45.5	51-142	Low Bias	2.78	30	
Chloroform	44		"	50.0		88.2	76-131		2.71	30	
Chloromethane	26		"	50.0		51.8	49-132		2.40	30	
cis-1,2-Dichloroethylene	44		"	50.0		87.9	74-132		3.16	30	
cis-1,3-Dichloropropylene	50		"	50.0		100	81-129		3.65	30	
Cyclohexane	38		"	50.0		76.2	70-130		4.64	30	
Dibromochloromethane	50		"	50.0		100	10-200		1.70	30	
Dibromomethane	46		"	50.0		91.6	83-124		4.36	30	
Dichlorodifluoromethane	51		"	50.0		102	28-158		5.13	30	
Ethyl Benzene	48		"	50.0		95.9	84-125		4.53	30	
Hexachlorobutadiene	50		"	50.0		101	83-133		9.86	30	
Isopropylbenzene	51		"	50.0		102	81-127		6.30	30	
Methyl acetate	42		"	50.0		83.0	41-143		2.96	30	
Methyl tert-butyl ether (MTBE)	42		"	50.0		84.8	74-131		2.31	30	
Methylcyclohexane	48		"	50.0		95.1	70-130		5.36	30	
Methylene chloride	41		"	50.0		82.9	57-141		1.56	30	
n-Butylbenzene	49		"	50.0		97.4	80-130		7.47	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80900 - EPA 5035A											
LCS Dup (BH80900-BSD1)								Prepared & Analyzed: 08/16/2018			
n-Propylbenzene	51		ug/L	50.0		101	74-136		7.47	30	
o-Xylene	47		"	50.0		94.0	83-123		3.76	30	
p- & m- Xylenes	91		"	100		90.7	82-128		3.16	30	
p-Isopropyltoluene	51		"	50.0		103	85-125		7.02	30	
sec-Butylbenzene	54		"	50.0		107	83-125		6.04	30	
Styrene	47		"	50.0		93.9	86-126		3.04	30	
tert-Butyl alcohol (TBA)	200		"	250		79.9	70-130		3.33	30	
tert-Butylbenzene	45		"	50.0		90.5	80-127		8.59	30	
Tetrachloroethylene	36		"	50.0		72.8	80-129	Low Bias	6.90	30	
Toluene	47		"	50.0		93.5	85-121		4.29	30	
trans-1,2-Dichloroethylene	41		"	50.0		81.8	72-132		5.03	30	
trans-1,3-Dichloropropylene	49		"	50.0		98.2	78-132		3.22	30	
trans-1,4-dichloro-2-butene	55		"	50.0		110	75-135		4.10	30	
Trichloroethylene	48		"	50.0		96.8	84-123		6.05	30	
Trichlorofluoromethane	23		"	50.0		46.3	62-140	Low Bias	3.82	30	
Vinyl Chloride	24		"	50.0		48.7	52-130	Low Bias	2.39	30	
Surrogate: 1,2-Dichloroethane-d4	*42.8*		*"*	*50.0*		*85.5*	*77-125*				
Surrogate: Toluene-d8	*48.8*		*"*	*50.0*		*97.5*	*85-120*				
Surrogate: p-Bromofluorobenzene	*53.6*		*"*	*50.0*		*107*	*76-130*				
Batch BH80979 - EPA 5035A											
Blank (BH80979-BLK1)								Prepared & Analyzed: 08/17/2018			
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80979 - EPA 5035A											
Blank (BH80979-BLK1)								Prepared & Analyzed: 08/17/2018			
Bromodichloromethane	ND	0.0050	mg/kg wet								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
trans-1,4-dichloro-2-butene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: 1,2-Dichloroethane-d4	*43.9*		*ug/L*	*50.0*		*87.8*	*77-125*				
Surrogate: Toluene-d8	*49.2*		*"*	*50.0*		*98.4*	*85-120*				
Surrogate: p-Bromofluorobenzene	*51.8*		*"*	*50.0*		*104*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80979 - EPA 5035A											
LCS (BH80979-BS1)							Prepared & Analyzed: 08/17/2018				
1,1,1,2-Tetrachloroethane	55		ug/L	50.0		109	75-129				
1,1,1-Trichloroethane	50		"	50.0		99.3	71-137				
1,1,2,2-Tetrachloroethane	58		"	50.0		117	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	47		"	50.0		93.4	58-146				
1,1,2-Trichloroethane	53		"	50.0		107	83-123				
1,1-Dichloroethane	51		"	50.0		101	75-130				
1,1-Dichloroethylene	46		"	50.0		91.7	64-137				
1,2,3-Trichlorobenzene	59		"	50.0		117	81-140				
1,2,3-Trichloropropane	58		"	50.0		116	81-126				
1,2,4-Trichlorobenzene	57		"	50.0		114	80-141				
1,2,4-Trimethylbenzene	55		"	50.0		111	84-125				
1,2-Dibromo-3-chloropropane	61		"	50.0		121	74-142				
1,2-Dibromoethane	55		"	50.0		109	86-123				
1,2-Dichlorobenzene	54		"	50.0		107	85-122				
1,2-Dichloroethane	46		"	50.0		92.4	71-133				
1,2-Dichloropropane	53		"	50.0		106	81-122				
1,3,5-Trimethylbenzene	54		"	50.0		107	82-126				
1,3-Dichlorobenzene	54		"	50.0		108	84-124				
1,4-Dichlorobenzene	55		"	50.0		111	84-124				
1,4-Dioxane	400		"	1050		38.2	10-228				
2-Butanone	56		"	50.0		113	58-147				
2-Hexanone	53		"	50.0		107	70-139				
4-Methyl-2-pentanone	38		"	50.0		76.4	72-132				
Acetone	42		"	50.0		84.7	36-155				
Acrolein	32		"	50.0		63.1	10-238				
Acrylonitrile	56		"	50.0		112	66-141				
Benzene	51		"	50.0		102	77-127				
Bromochloromethane	52		"	50.0		104	74-129				
Bromodichloromethane	53		"	50.0		105	81-124				
Bromoform	62		"	50.0		123	80-136				
Bromomethane	25		"	50.0		50.7	32-177				
Carbon disulfide	48		"	50.0		96.6	10-136				
Carbon tetrachloride	49		"	50.0		98.8	66-143				
Chlorobenzene	51		"	50.0		103	86-120				
Chloroethane	27		"	50.0		53.4	51-142				
Chloroform	51		"	50.0		102	76-131				
Chloromethane	30		"	50.0		60.5	49-132				
cis-1,2-Dichloroethylene	51		"	50.0		103	74-132				
cis-1,3-Dichloropropylene	53		"	50.0		105	81-129				
Cyclohexane	44		"	50.0		87.7	70-130				
Dibromochloromethane	54		"	50.0		109	10-200				
Dibromomethane	52		"	50.0		104	83-124				
Dichlorodifluoromethane	57		"	50.0		114	28-158				
Ethyl Benzene	51		"	50.0		103	84-125				
Hexachlorobutadiene	56		"	50.0		112	83-133				
Isopropylbenzene	54		"	50.0		109	81-127				
Methyl acetate	53		"	50.0		105	41-143				
Methyl tert-butyl ether (MTBE)	50		"	50.0		99.1	74-131				
Methylcyclohexane	52		"	50.0		104	70-130				
Methylene chloride	49		"	50.0		97.6	57-141				
n-Butylbenzene	52		"	50.0		103	80-130				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80979 - EPA 5035A											
LCS (BH80979-BS1)								Prepared & Analyzed: 08/17/2018			
n-Propylbenzene	54		ug/L	50.0		108	74-136				
o-Xylene	51		"	50.0		101	83-123				
p- & m- Xylenes	97		"	100		96.9	82-128				
p-Isopropyltoluene	55		"	50.0		109	85-125				
sec-Butylbenzene	58		"	50.0		116	83-125				
Styrene	50		"	50.0		101	86-126				
tert-Butyl alcohol (TBA)	240		"	250		95.0	70-130				
tert-Butylbenzene	50		"	50.0		99.5	80-127				
Tetrachloroethylene	39		"	50.0		77.6	80-129	Low Bias			
Toluene	51		"	50.0		102	85-121				
trans-1,2-Dichloroethylene	48		"	50.0		95.9	72-132				
trans-1,3-Dichloropropylene	51		"	50.0		102	78-132				
trans-1,4-dichloro-2-butene	56		"	50.0		111	75-135				
Trichloroethylene	53		"	50.0		107	84-123				
Trichlorofluoromethane	26		"	50.0		51.9	62-140	Low Bias			
Vinyl Chloride	30		"	50.0		59.1	52-130				
Surrogate: 1,2-Dichloroethane-d4	*43.9*		*"*	*50.0*		*87.8*	*77-125*				
Surrogate: Toluene-d8	*48.6*		*"*	*50.0*		*97.3*	*85-120*				
Surrogate: p-Bromofluorobenzene	*52.6*		*"*	*50.0*		*105*	*76-130*				
LCS Dup (BH80979-BSD1)								Prepared & Analyzed: 08/17/2018			
1,1,1,2-Tetrachloroethane	54		ug/L	50.0		108	75-129		1.66	30	
1,1,1-Trichloroethane	49		"	50.0		97.8	71-137		1.46	30	
1,1,2,2-Tetrachloroethane	59		"	50.0		117	79-129		0.274	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	45		"	50.0		90.9	58-146		2.65	30	
1,1,2-Trichloroethane	52		"	50.0		104	83-123		3.19	30	
1,1-Dichloroethane	49		"	50.0		98.0	75-130		3.03	30	
1,1-Dichloroethylene	44		"	50.0		88.6	64-137		3.44	30	
1,2,3-Trichlorobenzene	55		"	50.0		110	81-140		6.20	30	
1,2,3-Trichloropropane	58		"	50.0		117	81-126		0.946	30	
1,2,4-Trichlorobenzene	52		"	50.0		103	80-141		9.45	30	
1,2,4-Trimethylbenzene	54		"	50.0		108	84-125		2.34	30	
1,2-Dibromo-3-chloropropane	57		"	50.0		114	74-142		6.18	30	
1,2-Dibromoethane	53		"	50.0		107	86-123		1.98	30	
1,2-Dichlorobenzene	52		"	50.0		104	85-122		2.89	30	
1,2-Dichloroethane	44		"	50.0		88.7	71-133		4.11	30	
1,2-Dichloropropane	52		"	50.0		104	81-122		1.03	30	
1,3,5-Trimethylbenzene	53		"	50.0		105	82-126		2.15	30	
1,3-Dichlorobenzene	53		"	50.0		105	84-124		2.87	30	
1,4-Dichlorobenzene	53		"	50.0		106	84-124		4.77	30	
1,4-Dioxane	360		"	1050		33.8	10-228		12.1	30	
2-Butanone	54		"	50.0		108	58-147		4.17	30	
2-Hexanone	51		"	50.0		102	70-139		4.84	30	
4-Methyl-2-pentanone	37		"	50.0		73.3	72-132		4.11	30	
Acetone	43		"	50.0		86.4	36-155		2.01	30	
Acrolein	27		"	50.0		54.8	10-238		14.1	30	
Acrylonitrile	50		"	50.0		99.8	66-141		11.9	30	
Benzene	50		"	50.0		100	77-127		1.92	30	
Bromochloromethane	50		"	50.0		101	74-129		2.68	30	
Bromodichloromethane	52		"	50.0		104	81-124		0.934	30	
Bromoform	59		"	50.0		118	80-136		4.24	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80979 - EPA 5035A											
LCS Dup (BH80979-BSD1)								Prepared & Analyzed: 08/17/2018			
Bromomethane	23		ug/L	50.0		46.5	32-177		8.68	30	
Carbon disulfide	48		"	50.0		95.1	10-136		1.56	30	
Carbon tetrachloride	49		"	50.0		97.1	66-143		1.74	30	
Chlorobenzene	50		"	50.0		101	86-120		1.89	30	
Chloroethane	27		"	50.0		54.8	51-142		2.48	30	
Chloroform	49		"	50.0		97.1	76-131		4.67	30	
Chloromethane	30		"	50.0		59.4	49-132		1.94	30	
cis-1,2-Dichloroethylene	50		"	50.0		101	74-132		2.24	30	
cis-1,3-Dichloropropylene	51		"	50.0		102	81-129		2.82	30	
Cyclohexane	43		"	50.0		85.7	70-130		2.28	30	
Dibromochloromethane	53		"	50.0		107	10-200		1.69	30	
Dibromomethane	51		"	50.0		102	83-124		1.05	30	
Dichlorodifluoromethane	56		"	50.0		112	28-158		2.00	30	
Ethyl Benzene	51		"	50.0		102	84-125		0.156	30	
Hexachlorobutadiene	56		"	50.0		112	83-133		0.161	30	
Isopropylbenzene	55		"	50.0		109	81-127		0.110	30	
Methyl acetate	49		"	50.0		98.4	41-143		6.63	30	
Methyl tert-butyl ether (MTBE)	47		"	50.0		94.7	74-131		4.50	30	
Methylcyclohexane	52		"	50.0		104	70-130		0.0959	30	
Methylene chloride	49		"	50.0		98.8	57-141		1.20	30	
n-Butylbenzene	50		"	50.0		99.6	80-130		3.69	30	
n-Propylbenzene	54		"	50.0		107	74-136		1.02	30	
o-Xylene	50		"	50.0		99.6	83-123		1.53	30	
p- & m- Xylenes	96		"	100		96.0	82-128		0.943	30	
p-Isopropyltoluene	54		"	50.0		108	85-125		0.900	30	
sec-Butylbenzene	58		"	50.0		115	83-125		0.778	30	
Styrene	49		"	50.0		98.7	86-126		1.97	30	
tert-Butyl alcohol (TBA)	230		"	250		92.2	70-130		3.07	30	
tert-Butylbenzene	50		"	50.0		100	80-127		0.481	30	
Tetrachloroethylene	38		"	50.0		76.7	80-129	Low Bias	1.22	30	
Toluene	51		"	50.0		101	85-121		0.551	30	
trans-1,2-Dichloroethylene	47		"	50.0		93.6	72-132		2.36	30	
trans-1,3-Dichloropropylene	50		"	50.0		101	78-132		1.67	30	
trans-1,4-dichloro-2-butene	55		"	50.0		109	75-135		1.89	30	
Trichloroethylene	54		"	50.0		108	84-123		0.616	30	
Trichlorofluoromethane	26		"	50.0		51.2	62-140	Low Bias	1.32	30	
Vinyl Chloride	29		"	50.0		57.4	52-130		2.88	30	
Surrogate: 1,2-Dichloroethane-d4	*42.9*		*"*	*50.0*		*85.8*	*77-125*				
Surrogate: Toluene-d8	*49.1*		*"*	*50.0*		*98.1*	*85-120*				
Surrogate: p-Bromofluorobenzene	*53.8*		*"*	*50.0*		*108*	*76-130*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80763 - EPA 3550C											
Blank (BH80763-BLK1)									Prepared: 08/15/2018 Analyzed: 08/16/2018		
1,1-Biphenyl	ND	0.0417	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0833	"								
1,2,4-Trichlorobenzene	ND	0.0417	"								
1,2-Dichlorobenzene	ND	0.0417	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0417	"								
1,3-Dichlorobenzene	ND	0.0417	"								
1,4-Dichlorobenzene	ND	0.0417	"								
2,3,4,6-Tetrachlorophenol	ND	0.0833	"								
2,4,5-Trichlorophenol	ND	0.0417	"								
2,4,6-Trichlorophenol	ND	0.0417	"								
2,4-Dichlorophenol	ND	0.0417	"								
2,4-Dimethylphenol	ND	0.0417	"								
2,4-Dinitrophenol	ND	0.0833	"								
2,4-Dinitrotoluene	ND	0.0417	"								
2,6-Dinitrotoluene	ND	0.0417	"								
2-Chloronaphthalene	ND	0.0417	"								
2-Chlorophenol	ND	0.0417	"								
2-Methylnaphthalene	ND	0.0417	"								
2-Methylphenol	ND	0.0417	"								
2-Nitroaniline	ND	0.0833	"								
2-Nitrophenol	ND	0.0417	"								
3- & 4-Methylphenols	ND	0.0417	"								
3,3-Dichlorobenzidine	ND	0.0417	"								
3-Nitroaniline	ND	0.0833	"								
4,6-Dinitro-2-methylphenol	ND	0.0833	"								
4-Bromophenyl phenyl ether	ND	0.0417	"								
4-Chloro-3-methylphenol	ND	0.0417	"								
4-Chloroaniline	ND	0.0417	"								
4-Chlorophenyl phenyl ether	ND	0.0417	"								
4-Nitroaniline	ND	0.0833	"								
4-Nitrophenol	ND	0.0833	"								
Acenaphthene	ND	0.0417	"								
Acenaphthylene	ND	0.0417	"								
Acetophenone	ND	0.0417	"								
Aniline	ND	0.167	"								
Anthracene	ND	0.0417	"								
Atrazine	ND	0.0417	"								
Benzaldehyde	ND	0.0417	"								
Benzidine	ND	0.167	"								
Benzo(a)anthracene	ND	0.0417	"								
Benzo(a)pyrene	ND	0.0417	"								
Benzo(b)fluoranthene	ND	0.0417	"								
Benzo(g,h,i)perylene	ND	0.0417	"								
Benzo(k)fluoranthene	ND	0.0417	"								
Benzoic acid	ND	0.0417	"								
Benzyl alcohol	ND	0.0417	"								
Benzyl butyl phthalate	ND	0.0417	"								
Bis(2-chloroethoxy)methane	ND	0.0417	"								
Bis(2-chloroethyl)ether	ND	0.0417	"								
Bis(2-chloroisopropyl)ether	ND	0.0417	"								
Bis(2-ethylhexyl)phthalate	ND	0.0417	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80763 - EPA 3550C											
Blank (BH80763-BLK1)								Prepared: 08/15/2018 Analyzed: 08/16/2018			
Caprolactam	ND	0.0833	mg/kg wet								
Carbazole	ND	0.0417	"								
Chrysene	ND	0.0417	"								
Dibenzo(a,h)anthracene	ND	0.0417	"								
Dibenzofuran	ND	0.0417	"								
Diethyl phthalate	ND	0.0417	"								
Dimethyl phthalate	ND	0.0417	"								
Di-n-butyl phthalate	ND	0.0417	"								
Di-n-octyl phthalate	ND	0.0417	"								
Fluoranthene	ND	0.0417	"								
Fluorene	ND	0.0417	"								
Hexachlorobenzene	ND	0.0417	"								
Hexachlorobutadiene	ND	0.0417	"								
Hexachlorocyclopentadiene	ND	0.0417	"								
Hexachloroethane	ND	0.0417	"								
Indeno(1,2,3-cd)pyrene	ND	0.0417	"								
Isophorone	ND	0.0417	"								
Naphthalene	ND	0.0417	"								
Nitrobenzene	ND	0.0417	"								
N-Nitrosodimethylamine	ND	0.0417	"								
N-nitroso-di-n-propylamine	ND	0.0417	"								
N-Nitrosodiphenylamine	ND	0.0417	"								
Pentachlorophenol	ND	0.0417	"								
Phenanthrene	ND	0.0417	"								
Phenol	ND	0.0417	"								
Pyrene	ND	0.0417	"								
Surrogate: 2-Fluorophenol	*1.46*		*"*	*1.67*		*87.4*	*20-108*				
Surrogate: Phenol-d5	*1.35*		*"*	*1.67*		*81.2*	*23-114*				
Surrogate: Nitrobenzene-d5	*0.725*		*"*	*0.833*		*87.0*	*22-108*				
Surrogate: 2-Fluorobiphenyl	*0.636*		*"*	*0.833*		*76.3*	*21-113*				
Surrogate: 2,4,6-Tribromophenol	*1.16*		*"*	*1.67*		*69.6*	*19-110*				
Surrogate: Terphenyl-d14	*0.708*		*"*	*0.833*		*85.0*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80763 - EPA 3550C											
LCS (BH80763-BS1)								Prepared: 08/15/2018 Analyzed: 08/16/2018			
1,1-Biphenyl	0.664	0.0417	mg/kg wet	0.833		79.7	22-103				
1,2,4,5-Tetrachlorobenzene	0.714	0.0833	"	0.833		85.6	10-144				
1,2,4-Trichlorobenzene	0.572	0.0417	"	0.833		68.7	23-130				
1,2-Dichlorobenzene	0.579	0.0417	"	0.833		69.4	26-113				
1,2-Diphenylhydrazine (as Azobenzene)	0.749	0.0417	"	0.833		89.9	10-140				
1,3-Dichlorobenzene	0.590	0.0417	"	0.833		70.8	32-113				
1,4-Dichlorobenzene	0.597	0.0417	"	0.833		71.7	28-111				
2,3,4,6-Tetrachlorophenol	1.57	0.0833	"	0.833		189	30-130	High Bias			
2,4,5-Trichlorophenol	0.583	0.0417	"	0.833		70.0	14-138				
2,4,6-Trichlorophenol	0.572	0.0417	"	0.833		68.6	27-122				
2,4-Dichlorophenol	0.620	0.0417	"	0.833		74.4	23-133				
2,4-Dimethylphenol	0.678	0.0417	"	0.833		81.4	15-131				
2,4-Dinitrophenol	0.588	0.0833	"	0.833		70.5	10-149				
2,4-Dinitrotoluene	0.609	0.0417	"	0.833		73.0	30-123				
2,6-Dinitrotoluene	0.567	0.0417	"	0.833		68.0	30-125				
2-Chloronaphthalene	0.598	0.0417	"	0.833		71.7	22-115				
2-Chlorophenol	0.633	0.0417	"	0.833		76.0	25-121				
2-Methylnaphthalene	0.630	0.0417	"	0.833		75.6	16-127				
2-Methylphenol	0.565	0.0417	"	0.833		67.8	10-146				
2-Nitroaniline	0.594	0.0833	"	0.833		71.3	24-126				
2-Nitrophenol	0.587	0.0417	"	0.833		70.4	17-129				
3- & 4-Methylphenols	0.555	0.0417	"	0.833		66.6	20-109				
3,3-Dichlorobenzidine	0.402	0.0417	"	0.833		48.2	10-147				
3-Nitroaniline	0.538	0.0833	"	0.833		64.5	23-123				
4,6-Dinitro-2-methylphenol	0.595	0.0833	"	0.833		71.4	10-149				
4-Bromophenyl phenyl ether	0.629	0.0417	"	0.833		75.4	30-138				
4-Chloro-3-methylphenol	0.652	0.0417	"	0.833		78.3	16-138				
4-Chloroaniline	0.467	0.0417	"	0.833		56.1	10-117				
4-Chlorophenyl phenyl ether	0.599	0.0417	"	0.833		71.9	18-132				
4-Nitroaniline	0.581	0.0833	"	0.833		69.7	14-125				
4-Nitrophenol	0.661	0.0833	"	0.833		79.3	10-136				
Acenaphthene	0.597	0.0417	"	0.833		71.6	17-124				
Acenaphthylene	0.615	0.0417	"	0.833		73.8	16-124				
Acetophenone	0.651	0.0417	"	0.833		78.2	28-105				
Aniline	0.435	0.167	"	0.833		52.2	10-111				
Anthracene	0.640	0.0417	"	0.833		76.8	24-124				
Atrazine	0.662	0.0417	"	0.833		79.4	22-120				
Benzaldehyde	0.681	0.0417	"	0.833		81.7	21-100				
Benzo(a)anthracene	0.641	0.0417	"	0.833		77.0	25-134				
Benzo(a)pyrene	0.733	0.0417	"	0.833		88.0	29-144				
Benzo(b)fluoranthene	0.674	0.0417	"	0.833		80.9	20-151				
Benzo(g,h,i)perylene	0.650	0.0417	"	0.833		78.0	10-153				
Benzo(k)fluoranthene	0.693	0.0417	"	0.833		83.2	10-148				
Benzoic acid	0.203	0.0417	"	0.842		24.1	10-116				
Benzyl alcohol	0.719	0.0417	"	0.833		86.2	17-128				
Benzyl butyl phthalate	0.676	0.0417	"	0.833		81.1	10-132				
Bis(2-chloroethoxy)methane	0.586	0.0417	"	0.833		70.3	10-129				
Bis(2-chloroethyl)ether	0.657	0.0417	"	0.833		78.8	14-125				
Bis(2-chloroisopropyl)ether	0.844	0.0417	"	0.833		101	14-122				
Bis(2-ethylhexyl)phthalate	0.705	0.0417	"	0.833		84.6	10-141				
Caprolactam	0.620	0.0833	"	0.833		74.4	10-123				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80763 - EPA 3550C											
LCS (BH80763-BS1)								Prepared: 08/15/2018 Analyzed: 08/16/2018			
Carbazole	0.613	0.0417	mg/kg wet	0.833		73.6	31-120				
Chrysene	0.658	0.0417	"	0.833		79.0	24-116				
Dibenzo(a,h)anthracene	0.644	0.0417	"	0.833		77.3	17-147				
Dibenzofuran	0.606	0.0417	"	0.833		72.7	23-123				
Diethyl phthalate	0.617	0.0417	"	0.833		74.0	23-122				
Dimethyl phthalate	0.632	0.0417	"	0.833		75.8	28-127				
Di-n-butyl phthalate	0.623	0.0417	"	0.833		74.8	19-123				
Di-n-octyl phthalate	0.721	0.0417	"	0.833		86.5	10-132				
Fluoranthene	0.650	0.0417	"	0.833		78.0	36-125				
Fluorene	0.613	0.0417	"	0.833		73.6	16-130				
Hexachlorobenzene	0.720	0.0417	"	0.833		86.4	10-129				
Hexachlorobutadiene	0.598	0.0417	"	0.833		71.8	22-153				
Hexachlorocyclopentadiene	0.431	0.0417	"	0.833		51.7	10-134				
Hexachloroethane	0.628	0.0417	"	0.833		75.3	20-112				
Indeno(1,2,3-cd)pyrene	0.651	0.0417	"	0.833		78.2	10-155				
Isophorone	0.629	0.0417	"	0.833		75.5	14-131				
Naphthalene	0.630	0.0417	"	0.833		75.6	20-121				
Nitrobenzene	0.670	0.0417	"	0.833		80.4	20-121				
N-Nitrosodimethylamine	0.639	0.0417	"	0.833		76.7	10-124				
N-nitroso-di-n-propylamine	0.649	0.0417	"	0.833		77.9	21-119				
N-Nitrosodiphenylamine	0.733	0.0417	"	0.833		88.0	10-163				
Pentachlorophenol	0.431	0.0417	"	0.833		51.8	10-143				
Phenanthrene	0.635	0.0417	"	0.833		76.2	24-123				
Phenol	0.726	0.0417	"	0.833		87.1	15-123				
Pyrene	0.664	0.0417	"	0.833		79.6	24-132				
Surrogate: 2-Fluorophenol	*1.32*		*"*	*1.67*		*78.9*	*20-108*				
Surrogate: Phenol-d5	*1.26*		*"*	*1.67*		*75.7*	*23-114*				
Surrogate: Nitrobenzene-d5	*0.698*		*"*	*0.833*		*83.8*	*22-108*				
Surrogate: 2-Fluorobiphenyl	*0.624*		*"*	*0.833*		*74.8*	*21-113*				
Surrogate: 2,4,6-Tribromophenol	*1.13*		*"*	*1.67*		*67.6*	*19-110*				
Surrogate: Terphenyl-d14	*0.697*		*"*	*0.833*		*83.6*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80763 - EPA 3550C											
Matrix Spike (BH80763-MS1)	*Source sample: 18H0563-15 (SB-8 (17'-19'))							Prepared: 08/15/2018 Analyzed: 08/16/2018			
1,1-Biphenyl	0.695	0.0885	mg/kg dry	0.884	ND	78.6	24-112				
1,2,4,5-Tetrachlorobenzene	0.728	0.177	"	0.884	ND	82.3	18-152				
1,2,4-Trichlorobenzene	0.592	0.0885	"	0.884	ND	67.0	15-139				
1,2-Dichlorobenzene	0.577	0.0885	"	0.884	ND	65.2	29-106				
1,2-Diphenylhydrazine (as Azobenzene)	0.799	0.0885	"	0.884	ND	90.4	10-135				
1,3-Dichlorobenzene	0.553	0.0885	"	0.884	ND	62.5	34-100				
1,4-Dichlorobenzene	0.535	0.0885	"	0.884	ND	60.5	26-107				
2,3,4,6-Tetrachlorophenol	0.884	0.177	"	0.884	ND	99.9	30-130				
2,4,5-Trichlorophenol	0.582	0.0885	"	0.884	ND	65.8	10-148				
2,4,6-Trichlorophenol	0.490	0.0885	"	0.884	ND	55.4	12-138				
2,4-Dichlorophenol	0.617	0.0885	"	0.884	ND	69.8	16-144				
2,4-Dimethylphenol	0.621	0.0885	"	0.884	ND	70.2	11-133				
2,4-Dinitrophenol	ND	0.177	"	0.884	ND		10-132	Low Bias			
2,4-Dinitrotoluene	0.584	0.0885	"	0.884	ND	66.1	42-113				
2,6-Dinitrotoluene	0.563	0.0885	"	0.884	ND	63.7	36-124				
2-Chloronaphthalene	0.621	0.0885	"	0.884	ND	70.2	31-116				
2-Chlorophenol	0.595	0.0885	"	0.884	ND	67.3	28-114				
2-Methylnaphthalene	0.668	0.0885	"	0.884	ND	75.5	10-143				
2-Methylphenol	0.552	0.0885	"	0.884	ND	62.4	10-160				
2-Nitroaniline	0.625	0.177	"	0.884	ND	70.7	33-122				
2-Nitrophenol	0.553	0.0885	"	0.884	ND	62.5	12-127				
3- & 4-Methylphenols	0.525	0.0885	"	0.884	ND	59.4	16-115				
3,3-Dichlorobenzidine	0.375	0.0885	"	0.884	ND	42.4	10-134				
3-Nitroaniline	0.524	0.177	"	0.884	ND	59.2	24-128				
4,6-Dinitro-2-methylphenol	ND	0.177	"	0.884	ND		10-149	Low Bias			
4-Bromophenyl phenyl ether	0.613	0.0885	"	0.884	ND	69.3	32-148				
4-Chloro-3-methylphenol	0.635	0.0885	"	0.884	ND	71.8	14-138				
4-Chloroaniline	0.445	0.0885	"	0.884	ND	50.3	10-124				
4-Chlorophenyl phenyl ether	0.594	0.0885	"	0.884	ND	67.1	10-153				
4-Nitroaniline	0.596	0.177	"	0.884	ND	67.4	10-151				
4-Nitrophenol	0.577	0.177	"	0.884	ND	65.2	10-141				
Acenaphthene	0.702	0.0885	"	0.884	0.0481	73.9	13-133				
Acenaphthylene	0.670	0.0885	"	0.884	ND	75.8	25-125				
Acetophenone	0.663	0.0885	"	0.884	ND	75.0	25-105				
Aniline	0.352	0.354	"	0.884	ND	39.8	10-112				
Anthracene	0.846	0.0885	"	0.884	0.166	76.9	27-128				
Atrazine	0.674	0.0885	"	0.884	ND	76.2	10-139				
Benzaldehyde	0.705	0.0885	"	0.884	ND	79.7	24-96				
Benzo(a)anthracene	1.13	0.0885	"	0.884	0.395	82.6	20-147				
Benzo(a)pyrene	1.24	0.0885	"	0.884	0.377	97.8	18-153				
Benzo(b)fluoranthene	1.08	0.0885	"	0.884	0.291	89.0	10-163				
Benzo(g,h,i)perylene	0.849	0.0885	"	0.884	0.189	74.6	10-157				
Benzo(k)fluoranthene	1.09	0.0885	"	0.884	0.310	87.9	10-157				
Benzoic acid	ND	0.0885	"	0.893	ND		10-130	Low Bias			
Benzyl alcohol	0.679	0.0885	"	0.884	ND	76.8	20-122				
Benzyl butyl phthalate	0.698	0.0885	"	0.884	ND	79.0	10-129				
Bis(2-chloroethoxy)methane	0.615	0.0885	"	0.884	ND	69.5	12-128				
Bis(2-chloroethyl)ether	0.640	0.0885	"	0.884	ND	72.3	18-113				
Bis(2-chloroisopropyl)ether	0.800	0.0885	"	0.884	ND	90.5	10-130				
Bis(2-ethylhexyl)phthalate	1.04	0.0885	"	0.884	0.273	86.6	10-138				
Caprolactam	0.653	0.177	"	0.884	ND	73.8	10-100				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80763 - EPA 3550C											
Matrix Spike (BH80763-MS1)	*Source sample: 18H0563-15 (SB-8 (17'-19'))						Prepared: 08/15/2018 Analyzed: 08/16/2018				
Carbazole	0.630	0.0885	mg/kg dry	0.884	ND	71.2	24-139				
Chrysene	1.17	0.0885	"	0.884	0.413	85.2	18-133				
Dibenzo(a,h)anthracene	0.734	0.0885	"	0.884	0.0637	75.8	10-146				
Dibenzofuran	0.656	0.0885	"	0.884	ND	74.2	26-134				
Diethyl phthalate	0.630	0.0885	"	0.884	ND	71.3	30-119				
Dimethyl phthalate	0.626	0.0885	"	0.884	ND	70.8	34-120				
Di-n-butyl phthalate	0.621	0.0885	"	0.884	ND	70.2	20-128				
Di-n-octyl phthalate	0.811	0.0885	"	0.884	ND	91.7	10-133				
Fluoranthene	1.50	0.0885	"	0.884	0.726	88.1	10-155				
Fluorene	0.679	0.0885	"	0.884	0.0502	71.1	12-150				
Hexachlorobenzene	0.783	0.0885	"	0.884	ND	88.6	16-142				
Hexachlorobutadiene	0.579	0.0885	"	0.884	ND	65.4	11-150				
Hexachlorocyclopentadiene	0.192	0.0885	"	0.884	ND	21.8	10-115				
Hexachloroethane	0.613	0.0885	"	0.884	ND	69.4	14-106				
Indeno(1,2,3-cd)pyrene	0.816	0.0885	"	0.884	0.160	74.2	10-155				
Isophorone	0.636	0.0885	"	0.884	ND	71.9	14-127				
Naphthalene	0.677	0.0885	"	0.884	ND	76.6	15-132				
Nitrobenzene	0.681	0.0885	"	0.884	ND	77.0	18-125				
N-Nitrosodimethylamine	0.568	0.0885	"	0.884	ND	64.2	10-123				
N-nitroso-di-n-propylamine	0.611	0.0885	"	0.884	ND	69.1	23-115				
N-Nitrosodiphenylamine	0.932	0.0885	"	0.884	ND	105	16-166				
Pentachlorophenol	0.121	0.0885	"	0.884	ND	13.7	10-160				
Phenanthrene	1.41	0.0885	"	0.884	0.675	82.7	10-151				
Phenol	0.687	0.0885	"	0.884	ND	77.7	11-124				
Pyrene	1.65	0.0885	"	0.884	0.786	98.0	13-148				
Surrogate: 2-Fluorophenol	*1.23*		*"*	*1.77*		*69.5*	*20-108*				
Surrogate: Phenol-d5	*1.20*		*"*	*1.77*		*68.0*	*23-114*				
Surrogate: Nitrobenzene-d5	*0.723*		*"*	*0.884*		*81.8*	*22-108*				
Surrogate: 2-Fluorobiphenyl	*0.653*		*"*	*0.884*		*73.8*	*21-113*				
Surrogate: 2,4,6-Tribromophenol	*1.02*		*"*	*1.77*		*57.8*	*19-110*				
Surrogate: Terphenyl-d14	*0.712*		*"*	*0.884*		*80.5*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80763 - EPA 3550C											
Matrix Spike Dup (BH80763-MSD1)	*Source sample: 18H0563-15 (SB-8 (17'-19'))							Prepared: 08/15/2018 Analyzed: 08/16/2018			
1,1-Biphenyl	0.603	0.0885	mg/kg dry	0.884	ND	68.2	24-112		14.1	30	
1,2,4,5-Tetrachlorobenzene	0.618	0.177	"	0.884	ND	69.9	18-152		16.3	30	
1,2,4-Trichlorobenzene	0.514	0.0885	"	0.884	ND	58.2	15-139		14.1	30	
1,2-Dichlorobenzene	0.480	0.0885	"	0.884	ND	54.2	29-106		18.4	30	
1,2-Diphenylhydrazine (as Azobenzene)	0.682	0.0885	"	0.884	ND	77.1	10-135		15.9	30	
1,3-Dichlorobenzene	0.494	0.0885	"	0.884	ND	55.8	34-100		11.2	30	
1,4-Dichlorobenzene	0.496	0.0885	"	0.884	ND	56.1	26-107		7.55	30	
2,3,4,6-Tetrachlorophenol	0.658	0.177	"	0.884	ND	74.4	30-130		29.3	30	
2,4,5-Trichlorophenol	0.473	0.0885	"	0.884	ND	53.4	10-148		20.8	30	
2,4,6-Trichlorophenol	0.392	0.0885	"	0.884	ND	44.3	12-138		22.3	30	
2,4-Dichlorophenol	0.559	0.0885	"	0.884	ND	63.2	16-144		9.87	30	
2,4-Dimethylphenol	0.528	0.0885	"	0.884	ND	59.8	11-133		16.1	30	
2,4-Dinitrophenol	ND	0.177	"	0.884	ND		10-132	Low Bias		30	
2,4-Dinitrotoluene	0.559	0.0885	"	0.884	ND	63.2	42-113		4.46	30	
2,6-Dinitrotoluene	0.552	0.0885	"	0.884	ND	62.4	36-124		2.03	30	
2-Chloronaphthalene	0.538	0.0885	"	0.884	ND	60.8	31-116		14.4	30	
2-Chlorophenol	0.514	0.0885	"	0.884	ND	58.2	28-114		14.5	30	
2-Methylnaphthalene	0.621	0.0885	"	0.884	ND	70.2	10-143		7.24	30	
2-Methylphenol	0.482	0.0885	"	0.884	ND	54.5	10-160		13.6	30	
2-Nitroaniline	0.569	0.177	"	0.884	ND	64.3	33-122		9.48	30	
2-Nitrophenol	0.512	0.0885	"	0.884	ND	57.9	12-127		7.57	30	
3- & 4-Methylphenols	0.469	0.0885	"	0.884	ND	53.0	16-115		11.2	30	
3,3-Dichlorobenzidine	0.322	0.0885	"	0.884	ND	36.4	10-134		15.2	30	
3-Nitroaniline	0.494	0.177	"	0.884	ND	55.8	24-128		5.84	30	
4,6-Dinitro-2-methylphenol	ND	0.177	"	0.884	ND		10-149	Low Bias		30	
4-Bromophenyl phenyl ether	0.566	0.0885	"	0.884	ND	64.0	32-148		7.92	30	
4-Chloro-3-methylphenol	0.601	0.0885	"	0.884	ND	67.9	14-138		5.61	30	
4-Chloroaniline	0.371	0.0885	"	0.884	ND	42.0	10-124		18.0	30	
4-Chlorophenyl phenyl ether	0.518	0.0885	"	0.884	ND	58.6	10-153		13.6	30	
4-Nitroaniline	0.503	0.177	"	0.884	ND	56.9	10-151		16.9	30	
4-Nitrophenol	0.490	0.177	"	0.884	ND	55.4	10-141		16.2	30	
Acenaphthene	0.633	0.0885	"	0.884	0.0481	66.2	13-133		10.3	30	
Acenaphthylene	0.584	0.0885	"	0.884	ND	66.0	25-125		13.8	30	
Acetophenone	0.551	0.0885	"	0.884	ND	62.3	25-105		18.4	30	
Aniline	0.299	0.354	"	0.884	ND	33.8	10-112		16.5	30	
Anthracene	0.750	0.0885	"	0.884	0.166	66.0	27-128		12.1	30	
Atrazine	0.597	0.0885	"	0.884	ND	67.5	10-139		12.1	30	
Benzaldehyde	0.614	0.0885	"	0.884	ND	69.4	24-96		13.7	30	
Benzo(a)anthracene	0.960	0.0885	"	0.884	0.395	63.9	20-147		15.9	30	
Benzo(a)pyrene	1.04	0.0885	"	0.884	0.377	75.4	18-153		17.3	30	
Benzo(b)fluoranthene	0.918	0.0885	"	0.884	0.291	70.9	10-163		16.0	30	
Benzo(g,h,i)perylene	0.698	0.0885	"	0.884	0.189	57.6	10-157		19.5	30	
Benzo(k)fluoranthene	0.908	0.0885	"	0.884	0.310	67.7	10-157		17.9	30	
Benzoic acid	ND	0.0885	"	0.893	ND		10-130	Low Bias		30	
Benzyl alcohol	0.574	0.0885	"	0.884	ND	64.9	20-122		16.8	30	
Benzyl butyl phthalate	0.621	0.0885	"	0.884	ND	70.2	10-129		11.7	30	
Bis(2-chloroethoxy)methane	0.506	0.0885	"	0.884	ND	57.2	12-128		19.4	30	
Bis(2-chloroethyl)ether	0.611	0.0885	"	0.884	ND	69.0	18-113		4.64	30	
Bis(2-chloroisopropyl)ether	0.730	0.0885	"	0.884	ND	82.6	10-130		9.15	30	
Bis(2-ethylhexyl)phthalate	0.906	0.0885	"	0.884	0.273	71.6	10-138		13.7	30	
Caprolactam	0.550	0.177	"	0.884	ND	62.2	10-100		17.0	30	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80763 - EPA 3550C											
Matrix Spike Dup (BH80763-MSD1)	*Source sample: 18H0563-15 (SB-8 (17'-19'))							Prepared: 08/15/2018 Analyzed: 08/16/2018			
Carbazole	0.574	0.0885	mg/kg dry	0.884	ND	65.0	24-139		9.17	30	
Chrysene	0.995	0.0885	"	0.884	0.413	65.8	18-133		15.8	30	
Dibenzo(a,h)anthracene	0.615	0.0885	"	0.884	0.0637	62.3	10-146		17.6	30	
Dibenzofuran	0.589	0.0885	"	0.884	ND	66.6	26-134		10.8	30	
Diethyl phthalate	0.562	0.0885	"	0.884	ND	63.5	30-119		11.5	30	
Dimethyl phthalate	0.533	0.0885	"	0.884	ND	60.2	34-120		16.1	30	
Di-n-butyl phthalate	0.573	0.0885	"	0.884	ND	64.8	20-128		8.06	30	
Di-n-octyl phthalate	0.703	0.0885	"	0.884	ND	79.5	10-133		14.2	30	
Fluoranthene	1.37	0.0885	"	0.884	0.726	73.1	10-155		9.20	30	
Fluorene	0.629	0.0885	"	0.884	0.0502	65.4	12-150		7.68	30	
Hexachlorobenzene	0.676	0.0885	"	0.884	ND	76.4	16-142		14.7	30	
Hexachlorobutadiene	0.530	0.0885	"	0.884	ND	59.9	11-150		8.81	30	
Hexachlorocyclopentadiene	0.122	0.0885	"	0.884	ND	13.8	10-115		45.0	30	Non-dir.
Hexachloroethane	0.512	0.0885	"	0.884	ND	57.8	14-106		18.1	30	
Indeno(1,2,3-cd)pyrene	0.703	0.0885	"	0.884	0.160	61.4	10-155		14.9	30	
Isophorone	0.574	0.0885	"	0.884	ND	64.9	14-127		10.3	30	
Naphthalene	0.597	0.0885	"	0.884	ND	67.5	15-132		12.5	30	
Nitrobenzene	0.574	0.0885	"	0.884	ND	65.0	18-125		17.0	30	
N-Nitrosodimethylamine	0.522	0.0885	"	0.884	ND	59.0	10-123		8.44	30	
N-nitroso-di-n-propylamine	0.561	0.0885	"	0.884	ND	63.4	23-115		8.57	30	
N-Nitrosodiphenylamine	0.805	0.0885	"	0.884	ND	91.0	16-166		14.7	30	
Pentachlorophenol	0.0524	0.0885	"	0.884	ND	5.92	10-160	Low Bias	79.2	30	Non-dir.
Phenanthrene	1.36	0.0885	"	0.884	0.675	78.0	10-151		3.01	30	
Phenol	0.595	0.0885	"	0.884	ND	67.3	11-124		14.3	30	
Pyrene	1.43	0.0885	"	0.884	0.786	73.2	13-148		14.2	30	
Surrogate: 2-Fluorophenol	*1.06*		*"*	*1.77*		*59.8*	*20-108*				
Surrogate: Phenol-d5	*1.07*		*"*	*1.77*		*60.2*	*23-114*				
Surrogate: Nitrobenzene-d5	*0.577*		*"*	*0.884*		*65.3*	*22-108*				
Surrogate: 2-Fluorobiphenyl	*0.541*		*"*	*0.884*		*61.2*	*21-113*				
Surrogate: 2,4,6-Tribromophenol	*0.795*		*"*	*1.77*		*45.0*	*19-110*				
Surrogate: Terphenyl-d14	*0.602*		*"*	*0.884*		*68.1*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80799 - EPA 3550C											
Blank (BH80799-BLK1)									Prepared: 08/16/2018 Analyzed: 08/17/2018		
1,1-Biphenyl	ND	0.0417	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0833	"								
1,2,4-Trichlorobenzene	ND	0.0417	"								
1,2-Dichlorobenzene	ND	0.0417	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0417	"								
1,3-Dichlorobenzene	ND	0.0417	"								
1,4-Dichlorobenzene	ND	0.0417	"								
2,3,4,6-Tetrachlorophenol	ND	0.0833	"								
2,4,5-Trichlorophenol	ND	0.0417	"								
2,4,6-Trichlorophenol	ND	0.0417	"								
2,4-Dichlorophenol	ND	0.0417	"								
2,4-Dimethylphenol	ND	0.0417	"								
2,4-Dinitrophenol	ND	0.0833	"								
2,4-Dinitrotoluene	ND	0.0417	"								
2,6-Dinitrotoluene	ND	0.0417	"								
2-Chloronaphthalene	ND	0.0417	"								
2-Chlorophenol	ND	0.0417	"								
2-Methylnaphthalene	ND	0.0417	"								
2-Methylphenol	ND	0.0417	"								
2-Nitroaniline	ND	0.0833	"								
2-Nitrophenol	ND	0.0417	"								
3- & 4-Methylphenols	ND	0.0417	"								
3,3-Dichlorobenzidine	ND	0.0417	"								
3-Nitroaniline	ND	0.0833	"								
4,6-Dinitro-2-methylphenol	ND	0.0833	"								
4-Bromophenyl phenyl ether	ND	0.0417	"								
4-Chloro-3-methylphenol	ND	0.0417	"								
4-Chloroaniline	ND	0.0417	"								
4-Chlorophenyl phenyl ether	ND	0.0417	"								
4-Nitroaniline	ND	0.0833	"								
4-Nitrophenol	ND	0.0833	"								
Acenaphthene	ND	0.0417	"								
Acenaphthylene	ND	0.0417	"								
Acetophenone	ND	0.0417	"								
Aniline	ND	0.167	"								
Anthracene	ND	0.0417	"								
Atrazine	ND	0.0417	"								
Benzaldehyde	ND	0.0417	"								
Benzidine	ND	0.167	"								
Benzo(a)anthracene	ND	0.0417	"								
Benzo(a)pyrene	ND	0.0417	"								
Benzo(b)fluoranthene	ND	0.0417	"								
Benzo(g,h,i)perylene	ND	0.0417	"								
Benzo(k)fluoranthene	ND	0.0417	"								
Benzoic acid	ND	0.0417	"								
Benzyl alcohol	ND	0.0417	"								
Benzyl butyl phthalate	ND	0.0417	"								
Bis(2-chloroethoxy)methane	ND	0.0417	"								
Bis(2-chloroethyl)ether	ND	0.0417	"								
Bis(2-chloroisopropyl)ether	ND	0.0417	"								
Bis(2-ethylhexyl)phthalate	ND	0.0417	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80799 - EPA 3550C											
Blank (BH80799-BLK1)								Prepared: 08/16/2018 Analyzed: 08/17/2018			
Caprolactam	ND	0.0833	mg/kg wet								
Carbazole	ND	0.0417	"								
Chrysene	ND	0.0417	"								
Dibenzo(a,h)anthracene	ND	0.0417	"								
Dibenzofuran	ND	0.0417	"								
Diethyl phthalate	ND	0.0417	"								
Dimethyl phthalate	ND	0.0417	"								
Di-n-butyl phthalate	ND	0.0417	"								
Di-n-octyl phthalate	ND	0.0417	"								
Fluoranthene	ND	0.0417	"								
Fluorene	ND	0.0417	"								
Hexachlorobenzene	ND	0.0417	"								
Hexachlorobutadiene	ND	0.0417	"								
Hexachlorocyclopentadiene	ND	0.0417	"								
Hexachloroethane	ND	0.0417	"								
Indeno(1,2,3-cd)pyrene	ND	0.0417	"								
Isophorone	ND	0.0417	"								
Naphthalene	ND	0.0417	"								
Nitrobenzene	ND	0.0417	"								
N-Nitrosodimethylamine	ND	0.0417	"								
N-nitroso-di-n-propylamine	ND	0.0417	"								
N-Nitrosodiphenylamine	ND	0.0417	"								
Pentachlorophenol	ND	0.0417	"								
Phenanthrene	ND	0.0417	"								
Phenol	ND	0.0417	"								
Pyrene	ND	0.0417	"								
Surrogate: 2-Fluorophenol	*1.35*		*"*	*1.67*		*81.2*	*20-108*				
Surrogate: Phenol-d5	*1.29*		*"*	*1.67*		*77.7*	*23-114*				
Surrogate: Nitrobenzene-d5	*0.834*		*"*	*0.833*		*100*	*22-108*				
Surrogate: 2-Fluorobiphenyl	*0.693*		*"*	*0.833*		*83.2*	*21-113*				
Surrogate: 2,4,6-Tribromophenol	*1.37*		*"*	*1.67*		*82.1*	*19-110*				
Surrogate: Terphenyl-d14	*0.810*		*"*	*0.833*		*97.2*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80799 - EPA 3550C											
LCS (BH80799-BS1)								Prepared: 08/16/2018 Analyzed: 08/17/2018			
1,1-Biphenyl	0.679	0.0417	mg/kg wet	0.833		81.4	22-103				
1,2,4,5-Tetrachlorobenzene	0.672	0.0833	"	0.833		80.6	10-144				
1,2,4-Trichlorobenzene	0.583	0.0417	"	0.833		70.0	23-130				
1,2-Dichlorobenzene	0.582	0.0417	"	0.833		69.8	26-113				
1,2-Diphenylhydrazine (as Azobenzene)	0.815	0.0417	"	0.833		97.8	10-140				
1,3-Dichlorobenzene	0.567	0.0417	"	0.833		68.1	32-113				
1,4-Dichlorobenzene	0.631	0.0417	"	0.833		75.8	28-111				
2,3,4,6-Tetrachlorophenol	1.64	0.0833	"	0.833		197	30-130	High Bias			
2,4,5-Trichlorophenol	0.611	0.0417	"	0.833		73.3	14-138				
2,4,6-Trichlorophenol	0.588	0.0417	"	0.833		70.6	27-122				
2,4-Dichlorophenol	0.668	0.0417	"	0.833		80.1	23-133				
2,4-Dimethylphenol	0.606	0.0417	"	0.833		72.8	15-131				
2,4-Dinitrophenol	0.623	0.0833	"	0.833		74.7	10-149				
2,4-Dinitrotoluene	0.631	0.0417	"	0.833		75.8	30-123				
2,6-Dinitrotoluene	0.608	0.0417	"	0.833		73.0	30-125				
2-Chloronaphthalene	0.566	0.0417	"	0.833		68.0	22-115				
2-Chlorophenol	0.591	0.0417	"	0.833		70.9	25-121				
2-Methylnaphthalene	0.652	0.0417	"	0.833		78.3	16-127				
2-Methylphenol	0.556	0.0417	"	0.833		66.7	10-146				
2-Nitroaniline	0.610	0.0833	"	0.833		73.2	24-126				
2-Nitrophenol	0.573	0.0417	"	0.833		68.8	17-129				
3- & 4-Methylphenols	0.561	0.0417	"	0.833		67.3	20-109				
3,3-Dichlorobenzidine	0.424	0.0417	"	0.833		50.8	10-147				
3-Nitroaniline	0.541	0.0833	"	0.833		65.0	23-123				
4,6-Dinitro-2-methylphenol	0.671	0.0833	"	0.833		80.6	10-149				
4-Bromophenyl phenyl ether	0.629	0.0417	"	0.833		75.5	30-138				
4-Chloro-3-methylphenol	0.703	0.0417	"	0.833		84.4	16-138				
4-Chloroaniline	0.498	0.0417	"	0.833		59.7	10-117				
4-Chlorophenyl phenyl ether	0.590	0.0417	"	0.833		70.8	18-132				
4-Nitroaniline	0.576	0.0833	"	0.833		69.1	14-125				
4-Nitrophenol	0.701	0.0833	"	0.833		84.1	10-136				
Acenaphthene	0.613	0.0417	"	0.833		73.6	17-124				
Acenaphthylene	0.617	0.0417	"	0.833		74.1	16-124				
Acetophenone	0.658	0.0417	"	0.833		79.0	28-105				
Aniline	0.428	0.167	"	0.833		51.4	10-111				
Anthracene	0.667	0.0417	"	0.833		80.0	24-124				
Atrazine	0.692	0.0417	"	0.833		83.0	22-120				
Benzaldehyde	0.680	0.0417	"	0.833		81.6	21-100				
Benzo(a)anthracene	0.649	0.0417	"	0.833		77.9	25-134				
Benzo(a)pyrene	0.720	0.0417	"	0.833		86.4	29-144				
Benzo(b)fluoranthene	0.672	0.0417	"	0.833		80.6	20-151				
Benzo(g,h,i)perylene	0.692	0.0417	"	0.833		83.0	10-153				
Benzo(k)fluoranthene	0.671	0.0417	"	0.833		80.5	10-148				
Benzoic acid	0.455	0.0417	"	0.842		54.1	10-116				
Benzyl alcohol	0.701	0.0417	"	0.833		84.2	17-128				
Benzyl butyl phthalate	0.678	0.0417	"	0.833		81.3	10-132				
Bis(2-chloroethoxy)methane	0.623	0.0417	"	0.833		74.8	10-129				
Bis(2-chloroethyl)ether	0.628	0.0417	"	0.833		75.3	14-125				
Bis(2-chloroisopropyl)ether	0.913	0.0417	"	0.833		110	14-122				
Bis(2-ethylhexyl)phthalate	0.730	0.0417	"	0.833		87.6	10-141				
Caprolactam	0.604	0.0833	"	0.833		72.5	10-123				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80799 - EPA 3550C											
LCS (BH80799-BS1)								Prepared: 08/16/2018 Analyzed: 08/17/2018			
Carbazole	0.618	0.0417	mg/kg wet	0.833		74.1	31-120				
Chrysene	0.650	0.0417	"	0.833		78.0	24-116				
Dibenzo(a,h)anthracene	0.698	0.0417	"	0.833		83.8	17-147				
Dibenzofuran	0.609	0.0417	"	0.833		73.1	23-123				
Diethyl phthalate	0.667	0.0417	"	0.833		80.1	23-122				
Dimethyl phthalate	0.642	0.0417	"	0.833		77.0	28-127				
Di-n-butyl phthalate	0.657	0.0417	"	0.833		78.9	19-123				
Di-n-octyl phthalate	0.717	0.0417	"	0.833		86.1	10-132				
Fluoranthene	0.661	0.0417	"	0.833		79.4	36-125				
Fluorene	0.641	0.0417	"	0.833		76.9	16-130				
Hexachlorobenzene	0.803	0.0417	"	0.833		96.4	10-129				
Hexachlorobutadiene	0.644	0.0417	"	0.833		77.3	22-153				
Hexachlorocyclopentadiene	0.315	0.0417	"	0.833		37.8	10-134				
Hexachloroethane	0.677	0.0417	"	0.833		81.2	20-112				
Indeno(1,2,3-cd)pyrene	0.683	0.0417	"	0.833		81.9	10-155				
Isophorone	0.647	0.0417	"	0.833		77.6	14-131				
Naphthalene	0.631	0.0417	"	0.833		75.7	20-121				
Nitrobenzene	0.701	0.0417	"	0.833		84.1	20-121				
N-Nitrosodimethylamine	0.591	0.0417	"	0.833		70.9	10-124				
N-nitroso-di-n-propylamine	0.641	0.0417	"	0.833		76.9	21-119				
N-Nitrosodiphenylamine	0.754	0.0417	"	0.833		90.5	10-163				
Pentachlorophenol	0.511	0.0417	"	0.833		61.3	10-143				
Phenanthrene	0.679	0.0417	"	0.833		81.5	24-123				
Phenol	0.695	0.0417	"	0.833		83.4	15-123				
Pyrene	0.680	0.0417	"	0.833		81.6	24-132				
Surrogate: 2-Fluorophenol	*1.26*		*"*	*1.67*		*75.8*	*20-108*				
Surrogate: Phenol-d5	*1.21*		*"*	*1.67*		*72.9*	*23-114*				
Surrogate: Nitrobenzene-d5	*0.721*		*"*	*0.833*		*86.5*	*22-108*				
Surrogate: 2-Fluorobiphenyl	*0.617*		*"*	*0.833*		*74.1*	*21-113*				
Surrogate: 2,4,6-Tribromophenol	*1.17*		*"*	*1.67*		*70.4*	*19-110*				
Surrogate: Terphenyl-d14	*0.694*		*"*	*0.833*		*83.2*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80799 - EPA 3550C											
Matrix Spike (BH80799-MS1)	*Source sample: 18H0563-07 (SB-4 (17'-19'))							Prepared: 08/16/2018 Analyzed: 08/17/2018			
1,1-Biphenyl	0.538	0.0895	mg/kg dry	0.894	ND	60.2	24-112				
1,2,4,5-Tetrachlorobenzene	0.563	0.179	"	0.894	ND	63.0	18-152				
1,2,4-Trichlorobenzene	0.468	0.0895	"	0.894	ND	52.4	15-139				
1,2-Dichlorobenzene	0.471	0.0895	"	0.894	ND	52.7	29-106				
1,2-Diphenylhydrazine (as Azobenzene)	0.585	0.0895	"	0.894	ND	65.4	10-135				
1,3-Dichlorobenzene	0.418	0.0895	"	0.894	ND	46.8	34-100				
1,4-Dichlorobenzene	0.478	0.0895	"	0.894	ND	53.4	26-107				
2,3,4,6-Tetrachlorophenol	1.51	0.179	"	0.894	ND	169	30-130	High Bias			
2,4,5-Trichlorophenol	0.521	0.0895	"	0.894	ND	58.2	10-148				
2,4,6-Trichlorophenol	0.487	0.0895	"	0.894	ND	54.5	12-138				
2,4-Dichlorophenol	0.560	0.0895	"	0.894	ND	62.6	16-144				
2,4-Dimethylphenol	0.434	0.0895	"	0.894	ND	48.6	11-133				
2,4-Dinitrophenol	ND	0.179	"	0.894	ND		10-132	Low Bias			
2,4-Dinitrotoluene	0.459	0.0895	"	0.894	ND	51.4	42-113				
2,6-Dinitrotoluene	0.460	0.0895	"	0.894	ND	51.4	36-124				
2-Chloronaphthalene	0.457	0.0895	"	0.894	ND	51.1	31-116				
2-Chlorophenol	0.548	0.0895	"	0.894	ND	61.3	28-114				
2-Methylnaphthalene	0.509	0.0895	"	0.894	ND	57.0	10-143				
2-Methylphenol	0.518	0.0895	"	0.894	ND	57.9	10-160				
2-Nitroaniline	0.522	0.179	"	0.894	ND	58.4	33-122				
2-Nitrophenol	0.303	0.0895	"	0.894	ND	33.9	12-127				
3- & 4-Methylphenols	0.463	0.0895	"	0.894	ND	51.8	16-115				
3,3-Dichlorobenzidine	0.335	0.0895	"	0.894	ND	37.5	10-134				
3-Nitroaniline	0.529	0.179	"	0.894	ND	59.2	24-128				
4,6-Dinitro-2-methylphenol	ND	0.179	"	0.894	ND		10-149	Low Bias			
4-Bromophenyl phenyl ether	0.409	0.0895	"	0.894	ND	45.8	32-148				
4-Chloro-3-methylphenol	0.588	0.0895	"	0.894	ND	65.8	14-138				
4-Chloroaniline	0.445	0.0895	"	0.894	ND	49.8	10-124				
4-Chlorophenyl phenyl ether	0.453	0.0895	"	0.894	ND	50.7	10-153				
4-Nitroaniline	0.536	0.179	"	0.894	ND	60.0	10-151				
4-Nitrophenol	0.679	0.179	"	0.894	ND	75.9	10-141				
Acenaphthene	0.509	0.0895	"	0.894	ND	57.0	13-133				
Acenaphthylene	0.501	0.0895	"	0.894	ND	56.1	25-125				
Acetophenone	0.559	0.0895	"	0.894	ND	62.6	25-105				
Aniline	0.348	0.358	"	0.894	ND	39.0	10-112				
Anthracene	0.488	0.0895	"	0.894	ND	54.6	27-128				
Atrazine	0.578	0.0895	"	0.894	ND	64.7	10-139				
Benzaldehyde	0.567	0.0895	"	0.894	ND	63.4	24-96				
Benzo(a)anthracene	0.519	0.0895	"	0.894	ND	58.1	20-147				
Benzo(a)pyrene	0.585	0.0895	"	0.894	ND	65.4	18-153				
Benzo(b)fluoranthene	0.523	0.0895	"	0.894	ND	58.5	10-163				
Benzo(g,h,i)perylene	0.493	0.0895	"	0.894	ND	55.2	10-157				
Benzo(k)fluoranthene	0.541	0.0895	"	0.894	ND	60.5	10-157				
Benzoic acid	0.509	0.0895	"	0.903	ND	56.4	10-130				
Benzyl alcohol	0.605	0.0895	"	0.894	ND	67.7	20-122				
Benzyl butyl phthalate	0.524	0.0895	"	0.894	ND	58.6	10-129				
Bis(2-chloroethoxy)methane	0.496	0.0895	"	0.894	ND	55.5	12-128				
Bis(2-chloroethyl)ether	0.591	0.0895	"	0.894	ND	66.2	18-113				
Bis(2-chloroisopropyl)ether	0.721	0.0895	"	0.894	ND	80.6	10-130				
Bis(2-ethylhexyl)phthalate	0.588	0.0895	"	0.894	ND	65.8	10-138				
Caprolactam	0.522	0.179	"	0.894	ND	58.4	10-100				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80799 - EPA 3550C											
Matrix Spike (BH80799-MS1)	*Source sample: 18H0563-07 (SB-4 (17'-19'))							Prepared: 08/16/2018 Analyzed: 08/17/2018			
Carbazole	0.499	0.0895	mg/kg dry	0.894	ND	55.8	24-139				
Chrysene	0.520	0.0895	"	0.894	ND	58.2	18-133				
Dibenzo(a,h)anthracene	0.516	0.0895	"	0.894	ND	57.8	10-146				
Dibenzofuran	0.479	0.0895	"	0.894	ND	53.6	26-134				
Diethyl phthalate	0.498	0.0895	"	0.894	ND	55.7	30-119				
Dimethyl phthalate	0.476	0.0895	"	0.894	ND	53.2	34-120				
Di-n-butyl phthalate	0.473	0.0895	"	0.894	ND	53.0	20-128				
Di-n-octyl phthalate	0.576	0.0895	"	0.894	ND	64.5	10-133				
Fluoranthene	0.528	0.0895	"	0.894	ND	59.1	10-155				
Fluorene	0.508	0.0895	"	0.894	ND	56.9	12-150				
Hexachlorobenzene	0.634	0.0895	"	0.894	ND	70.9	16-142				
Hexachlorobutadiene	0.443	0.0895	"	0.894	ND	49.5	11-150				
Hexachlorocyclopentadiene	0.0529	0.0895	"	0.894	ND	5.92	10-115	Low Bias			
Hexachloroethane	0.434	0.0895	"	0.894	ND	48.6	14-106				
Indeno(1,2,3-cd)pyrene	0.494	0.0895	"	0.894	ND	55.3	10-155				
Isophorone	0.558	0.0895	"	0.894	ND	62.4	14-127				
Naphthalene	0.530	0.0895	"	0.894	ND	59.3	15-132				
Nitrobenzene	0.612	0.0895	"	0.894	ND	68.5	18-125				
N-Nitrosodimethylamine	0.470	0.0895	"	0.894	ND	52.6	10-123				
N-nitroso-di-n-propylamine	0.518	0.0895	"	0.894	ND	58.0	23-115				
N-Nitrosodiphenylamine	0.548	0.0895	"	0.894	ND	61.4	16-166				
Pentachlorophenol	0.498	0.0895	"	0.894	ND	55.7	10-160				
Phenanthrene	0.506	0.0895	"	0.894	ND	56.6	10-151				
Phenol	0.569	0.0895	"	0.894	ND	63.7	11-124				
Pyrene	0.569	0.0895	"	0.894	ND	63.7	13-148				
Surrogate: 2-Fluorophenol	*1.05*		*"*	*1.79*		*58.7*	*20-108*				
Surrogate: Phenol-d5	*1.03*		*"*	*1.79*		*57.5*	*23-114*				
Surrogate: Nitrobenzene-d5	*0.631*		*"*	*0.894*		*70.6*	*22-108*				
Surrogate: 2-Fluorobiphenyl	*0.480*		*"*	*0.894*		*53.7*	*21-113*				
Surrogate: 2,4,6-Tribromophenol	*1.04*		*"*	*1.79*		*58.2*	*19-110*				
Surrogate: Terphenyl-d14	*0.621*		*"*	*0.894*		*69.4*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80799 - EPA 3550C											
Matrix Spike Dup (BH80799-MSD1)	*Source sample: 18H0563-07 (SB-4 (17'-19'))							Prepared: 08/16/2018 Analyzed: 08/17/2018			
1,1-Biphenyl	0.591	0.0895	mg/kg dry	0.894	ND	66.2	24-112		9.37	30	
1,2,4,5-Tetrachlorobenzene	0.588	0.179	"	0.894	ND	65.8	18-152		4.47	30	
1,2,4-Trichlorobenzene	0.496	0.0895	"	0.894	ND	55.4	15-139		5.64	30	
1,2-Dichlorobenzene	0.513	0.0895	"	0.894	ND	57.4	29-106		8.57	30	
1,2-Diphenylhydrazine (as Azobenzene)	0.671	0.0895	"	0.894	ND	75.1	10-135		13.8	30	
1,3-Dichlorobenzene	0.469	0.0895	"	0.894	ND	52.5	34-100		11.4	30	
1,4-Dichlorobenzene	0.523	0.0895	"	0.894	ND	58.5	26-107		9.01	30	
2,3,4,6-Tetrachlorophenol	1.75	0.179	"	0.894	ND	196	30-130	High Bias	14.9	30	
2,4,5-Trichlorophenol	0.588	0.0895	"	0.894	ND	65.8	10-148		12.3	30	
2,4,6-Trichlorophenol	0.609	0.0895	"	0.894	ND	68.2	12-138		22.3	30	
2,4-Dichlorophenol	0.656	0.0895	"	0.894	ND	73.4	16-144		15.9	30	
2,4-Dimethylphenol	0.559	0.0895	"	0.894	ND	62.6	11-133		25.2	30	
2,4-Dinitrophenol	ND	0.179	"	0.894	ND		10-132	Low Bias		30	
2,4-Dinitrotoluene	0.519	0.0895	"	0.894	ND	58.1	42-113		12.3	30	
2,6-Dinitrotoluene	0.517	0.0895	"	0.894	ND	57.8	36-124		11.7	30	
2-Chloronaphthalene	0.493	0.0895	"	0.894	ND	55.1	31-116		7.53	30	
2-Chlorophenol	0.554	0.0895	"	0.894	ND	62.0	28-114		1.17	30	
2-Methylnaphthalene	0.598	0.0895	"	0.894	ND	66.9	10-143		16.0	30	
2-Methylphenol	0.482	0.0895	"	0.894	ND	53.9	10-160		7.15	30	
2-Nitroaniline	0.583	0.179	"	0.894	ND	65.2	33-122		11.0	30	
2-Nitrophenol	0.398	0.0895	"	0.894	ND	44.6	12-127		27.1	30	
3- & 4-Methylphenols	0.500	0.0895	"	0.894	ND	55.9	16-115		7.57	30	
3,3-Dichlorobenzidine	0.361	0.0895	"	0.894	ND	40.4	10-134		7.39	30	
3-Nitroaniline	0.581	0.179	"	0.894	ND	65.0	24-128		9.40	30	
4,6-Dinitro-2-methylphenol	ND	0.179	"	0.894	ND		10-149	Low Bias		30	
4-Bromophenyl phenyl ether	0.481	0.0895	"	0.894	ND	53.8	32-148		16.2	30	
4-Chloro-3-methylphenol	0.640	0.0895	"	0.894	ND	71.6	14-138		8.38	30	
4-Chloroaniline	0.506	0.0895	"	0.894	ND	56.6	10-124		12.9	30	
4-Chlorophenyl phenyl ether	0.460	0.0895	"	0.894	ND	51.4	10-153		1.41	30	
4-Nitroaniline	0.587	0.179	"	0.894	ND	65.7	10-151		9.04	30	
4-Nitrophenol	0.729	0.179	"	0.894	ND	81.5	10-141		7.11	30	
Acenaphthene	0.537	0.0895	"	0.894	ND	60.1	13-133		5.33	30	
Acenaphthylene	0.518	0.0895	"	0.894	ND	58.0	25-125		3.37	30	
Acetophenone	0.577	0.0895	"	0.894	ND	64.6	25-105		3.15	30	
Aniline	0.342	0.358	"	0.894	ND	38.2	10-112		1.87	30	
Anthracene	0.550	0.0895	"	0.894	ND	61.5	27-128		11.8	30	
Atrazine	0.571	0.0895	"	0.894	ND	63.8	10-139		1.37	30	
Benzaldehyde	0.593	0.0895	"	0.894	ND	66.4	24-96		4.56	30	
Benzo(a)anthracene	0.543	0.0895	"	0.894	ND	60.7	20-147		4.44	30	
Benzo(a)pyrene	0.566	0.0895	"	0.894	ND	63.4	18-153		3.23	30	
Benzo(b)fluoranthene	0.546	0.0895	"	0.894	ND	61.0	10-163		4.28	30	
Benzo(g,h,i)perylene	0.501	0.0895	"	0.894	ND	56.1	10-157		1.58	30	
Benzo(k)fluoranthene	0.553	0.0895	"	0.894	ND	61.8	10-157		2.22	30	
Benzoic acid	0.516	0.0895	"	0.903	ND	57.1	10-130		1.26	30	
Benzyl alcohol	0.678	0.0895	"	0.894	ND	75.8	20-122		11.4	30	
Benzyl butyl phthalate	0.571	0.0895	"	0.894	ND	63.8	10-129		8.49	30	
Bis(2-chloroethoxy)methane	0.531	0.0895	"	0.894	ND	59.4	12-128		6.69	30	
Bis(2-chloroethyl)ether	0.599	0.0895	"	0.894	ND	67.0	18-113		1.20	30	
Bis(2-chloroisopropyl)ether	0.776	0.0895	"	0.894	ND	86.8	10-130		7.36	30	
Bis(2-ethylhexyl)phthalate	0.615	0.0895	"	0.894	ND	68.8	10-138		4.40	30	
Caprolactam	0.541	0.179	"	0.894	ND	60.6	10-100		3.63	30	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80799 - EPA 3550C											
Matrix Spike Dup (BH80799-MSD1)	*Source sample: 18H0563-07 (SB-4 (17'-19'))							Prepared: 08/16/2018 Analyzed: 08/17/2018			
Carbazole	0.564	0.0895	mg/kg dry	0.894	ND	63.1	24-139		12.2	30	
Chrysene	0.556	0.0895	"	0.894	ND	62.2	18-133		6.78	30	
Dibenzo(a,h)anthracene	0.517	0.0895	"	0.894	ND	57.8	10-146		0.138	30	
Dibenzofuran	0.541	0.0895	"	0.894	ND	60.5	26-134		12.1	30	
Diethyl phthalate	0.561	0.0895	"	0.894	ND	62.7	30-119		11.9	30	
Dimethyl phthalate	0.583	0.0895	"	0.894	ND	65.2	34-120		20.3	30	
Di-n-butyl phthalate	0.536	0.0895	"	0.894	ND	60.0	20-128		12.5	30	
Di-n-octyl phthalate	0.611	0.0895	"	0.894	ND	68.4	10-133		5.90	30	
Fluoranthene	0.583	0.0895	"	0.894	ND	65.3	10-155		9.90	30	
Fluorene	0.558	0.0895	"	0.894	ND	62.5	12-150		9.38	30	
Hexachlorobenzene	0.696	0.0895	"	0.894	ND	77.8	16-142		9.36	30	
Hexachlorobutadiene	0.554	0.0895	"	0.894	ND	62.0	11-150		22.4	30	
Hexachlorocyclopentadiene	0.0479	0.0895	"	0.894	ND	5.36	10-115	Low Bias	9.93	30	
Hexachloroethane	0.486	0.0895	"	0.894	ND	54.3	14-106		11.2	30	
Indeno(1,2,3-cd)pyrene	0.521	0.0895	"	0.894	ND	58.3	10-155		5.35	30	
Isophorone	0.605	0.0895	"	0.894	ND	67.7	14-127		8.12	30	
Naphthalene	0.573	0.0895	"	0.894	ND	64.2	15-132		7.91	30	
Nitrobenzene	0.670	0.0895	"	0.894	ND	75.0	18-125		9.04	30	
N-Nitrosodimethylamine	0.511	0.0895	"	0.894	ND	57.2	10-123		8.45	30	
N-nitroso-di-n-propylamine	0.569	0.0895	"	0.894	ND	63.7	23-115		9.34	30	
N-Nitrosodiphenylamine	0.600	0.0895	"	0.894	ND	67.1	16-166		8.97	30	
Pentachlorophenol	0.480	0.0895	"	0.894	ND	53.7	10-160		3.66	30	
Phenanthrene	0.549	0.0895	"	0.894	ND	61.4	10-151		8.27	30	
Phenol	0.619	0.0895	"	0.894	ND	69.2	11-124		8.31	30	
Pyrene	0.587	0.0895	"	0.894	ND	65.7	13-148		3.09	30	
Surrogate: 2-Fluorophenol	*1.18*		*"*	*1.79*		*65.8*	*20-108*				
Surrogate: Phenol-d5	*1.10*		*"*	*1.79*		*61.4*	*23-114*				
Surrogate: Nitrobenzene-d5	*0.658*		*"*	*0.894*		*73.6*	*22-108*				
Surrogate: 2-Fluorobiphenyl	*0.552*		*"*	*0.894*		*61.8*	*21-113*				
Surrogate: 2,4,6-Tribromophenol	*1.15*		*"*	*1.79*		*64.5*	*19-110*				
Surrogate: Terphenyl-d14	*0.638*		*"*	*0.894*		*71.4*	*24-116*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80762 - EPA 3550C											
Blank (BH80762-BLK1)								Prepared: 08/15/2018 Analyzed: 08/16/2018			
4,4'-DDD	ND	0.000330	mg/kg wet								
4,4'-DDE	ND	0.000330	"								
4,4'-DDT	ND	0.000330	"								
Aldrin	ND	0.000330	"								
alpha-BHC	ND	0.000330	"								
alpha-Chlordane	ND	0.000330	"								
beta-BHC	ND	0.000330	"								
Chlordane, total	ND	0.00660	"								
delta-BHC	ND	0.000330	"								
Dieldrin	ND	0.000330	"								
Endosulfan I	ND	0.000330	"								
Endosulfan II	ND	0.000330	"								
Endosulfan sulfate	ND	0.000330	"								
Endrin	ND	0.000330	"								
Endrin aldehyde	ND	0.000330	"								
Endrin ketone	ND	0.000330	"								
gamma-BHC (Lindane)	ND	0.000330	"								
gamma-Chlordane	ND	0.000330	"								
Heptachlor	ND	0.000330	"								
Heptachlor epoxide	ND	0.000330	"								
Methoxychlor	ND	0.00165	"								
Toxaphene	ND	0.0167	"								
Surrogate: Decachlorobiphenyl	*0.0475*		*"*	*0.0670*		*70.9*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0559*		*"*	*0.0673*		*83.0*	*30-150*				
LCS (BH80762-BS1)								Prepared: 08/15/2018 Analyzed: 08/16/2018			
4,4'-DDD	0.0380	0.000330	mg/kg wet	0.0333		114	40-140				
4,4'-DDE	0.0342	0.000330	"	0.0333		103	40-140				
4,4'-DDT	0.0387	0.000330	"	0.0333		116	40-140				
Aldrin	0.0362	0.000330	"	0.0333		109	40-140				
alpha-BHC	0.0406	0.000330	"	0.0333		122	40-140				
alpha-Chlordane	0.0347	0.000330	"	0.0333		104	40-140				
beta-BHC	0.0340	0.000330	"	0.0333		102	40-140				
delta-BHC	0.0417	0.000330	"	0.0333		125	40-140				
Dieldrin	0.0305	0.000330	"	0.0333		91.6	40-140				
Endosulfan I	0.0353	0.000330	"	0.0333		106	40-140				
Endosulfan II	0.0365	0.000330	"	0.0333		110	40-140				
Endosulfan sulfate	0.0344	0.000330	"	0.0333		103	40-140				
Endrin	0.0375	0.000330	"	0.0333		112	40-140				
Endrin aldehyde	0.0352	0.000330	"	0.0333		106	40-140				
Endrin ketone	0.0342	0.000330	"	0.0333		103	40-140				
gamma-BHC (Lindane)	0.0386	0.000330	"	0.0333		116	40-140				
gamma-Chlordane	0.0346	0.000330	"	0.0333		104	40-140				
Heptachlor	0.0338	0.000330	"	0.0333		101	40-140				
Heptachlor epoxide	0.0334	0.000330	"	0.0333		100	40-140				
Methoxychlor	0.0330	0.00165	"	0.0333		98.9	40-140				
Surrogate: Decachlorobiphenyl	*0.0512*		*"*	*0.0670*		*76.5*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0585*		*"*	*0.0673*		*86.9*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch Y8H1714 - BH80158											
Performance Mix (Y8H1714-PEM1)								Prepared & Analyzed: 08/16/2018			
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	1.12		"	0.00			0-200				
4,4'-DDT	331		"	200		165	0-200				
Endrin	211		"	100		211	0-200	High Bias			
Endrin aldehyde	9.16		"	0.00			0-200				
Endrin ketone	11.8		"	0.00			0-200				
Performance Mix (Y8H1714-PEM2)								Prepared & Analyzed: 08/16/2018			
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.571		"	0.00			0-200				
4,4'-DDT	331		"	200		166	0-200				
Endrin	195		"	100		195	0-200				
Endrin aldehyde	2.75		"	0.00			0-200				
Endrin ketone	4.88		"	0.00			0-200				
Performance Mix (Y8H1714-PEM3)								Prepared: 08/16/2018 Analyzed: 08/17/2018			
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.984		"	0.00			0-200				
4,4'-DDT	311		"	200		155	0-200				
Endrin	205		"	100		205	0-200	High Bias			
Endrin aldehyde	2.96		"	0.00			0-200				
Endrin ketone	11.4		"	0.00			0-200				
Batch Y8H2015 - BH80158											
Performance Mix (Y8H2015-PEM1)								Prepared & Analyzed: 08/17/2018			
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.766		"	0.00			0-200				
4,4'-DDT	311		"	200		156	0-200				
Endrin	189		"	100		189	0-200				
Endrin aldehyde	2.18		"	0.00			0-200				
Endrin ketone	9.22		"	0.00			0-200				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch Y8H2015 - BH80158											
Performance Mix (Y8H2015-PEM2)							Prepared & Analyzed: 08/17/2018				
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.867		"	0.00			0-200				
4,4'-DDT	288		"	200		144	0-200				
Endrin	193		"	100		193	0-200				
Endrin aldehyde	2.52		"	0.00			0-200				
Endrin ketone	10.7		"	0.00			0-200				
Performance Mix (Y8H2015-PEM3)							Prepared: 08/17/2018 Analyzed: 08/18/2018				
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.939		"	0.00			0-200				
4,4'-DDT	292		"	200		146	0-200				
Endrin	200		"	100		200	0-200				
Endrin aldehyde	2.87		"	0.00			0-200				
Endrin ketone	10.4		"	0.00			0-200				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80762 - EPA 3550C											
Blank (BH80762-BLK2)								Prepared: 08/15/2018 Analyzed: 08/16/2018			
Aroclor 1016	ND	0.0167	mg/kg wet								
Aroclor 1221	ND	0.0167	"								
Aroclor 1232	ND	0.0167	"								
Aroclor 1242	ND	0.0167	"								
Aroclor 1248	ND	0.0167	"								
Aroclor 1254	ND	0.0167	"								
Aroclor 1260	ND	0.0167	"								
Total PCBs	ND	0.0167	"								
Surrogate: Tetrachloro-m-xylene	*0.0677*		*"*	*0.0673*		*100*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0670*		*"*	*0.0670*		*100*	*30-140*				
LCS (BH80762-BS2)								Prepared: 08/15/2018 Analyzed: 08/16/2018			
Aroclor 1016	0.360	0.0167	mg/kg wet	0.333		108	40-130				
Aroclor 1260	0.355	0.0167	"	0.333		106	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0680*		*"*	*0.0673*		*101*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0670*		*"*	*0.0670*		*100*	*30-140*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80723 - EPA 3050B											
Blank (BH80723-BLK1)								Prepared & Analyzed: 08/15/2018			
Aluminum	ND	5.00	mg/kg wet								
Antimony	1.38	0.500	"								
Arsenic	ND	1.00	"								
Barium	ND	1.00	"								
Beryllium	ND	0.100	"								
Cadmium	ND	0.300	"								
Calcium	ND	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.500	"								
Copper	ND	0.500	"								
Iron	ND	2.00	"								
Lead	ND	0.500	"								
Magnesium	ND	5.00	"								
Manganese	ND	0.500	"								
Nickel	ND	0.500	"								
Potassium	10.8	5.00	"								
Selenium	1.40	1.00	"								
Silver	ND	0.500	"								
Sodium	43.5	10.0	"								
Thallium	ND	1.00	"								
Vanadium	ND	1.00	"								
Zinc	ND	1.50	"								
Reference (BH80723-SRM1)								Prepared & Analyzed: 08/15/2018			
Aluminum	7050	5.00	mg/kg wet	8040		87.7	39.4-160.5				
Antimony	131	0.500	"	91.4		143	25.1-275.7				
Arsenic	152	1.00	"	146		104	69.9-132.9				
Barium	98.5	1.00	"	102		96.6	71.5-136.3				
Beryllium	142	0.100	"	134		106	75.4-138.1				
Cadmium	63.8	0.300	"	63.2		101	73.3-141.5				
Calcium	5700	5.00	"	5930		96.2	73.7-136.1				
Chromium	93.2	0.500	"	89.3		104	69.1-143.3				
Cobalt	127	0.500	"	119		106	74.6-142				
Copper	64.8	0.500	"	60.8		107	72.7-141.6				
Iron	14800	2.00	"	14400		103	35.6-163.9				
Lead	101	0.500	"	98.5		102	70.8-137.1				
Magnesium	2450	5.00	"	2580		94.8	63.6-136.1				
Manganese	392	0.500	"	370		106	75.7-134.3				
Nickel	77.7	0.500	"	66.6		117	70.7-146.3				
Potassium	2070	5.00	"	2340		88.6	59.8-140.2				
Selenium	113	1.00	"	136		82.7	67.1-136.8				
Silver	48.3	0.500	"	48.9		98.7	66.5-139.5				
Sodium	394	10.0	"	318		124	40.6-159.8				
Thallium	153	1.00	"	138		111	68-136.2				
Vanadium	71.3	1.00	"	69.7		102	58.9-141.8				
Zinc	181	1.50	"	177		102	69.5-131.1				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80724 - EPA 3050B											
Blank (BH80724-BLK1)								Prepared: 08/15/2018 Analyzed: 08/20/2018			
Aluminum	5.91	5.00	mg/kg wet								
Antimony	ND	0.500	"								
Arsenic	ND	1.00	"								
Barium	ND	1.00	"								
Beryllium	ND	0.100	"								
Cadmium	ND	0.300	"								
Calcium	ND	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.500	"								
Copper	ND	0.500	"								
Iron	ND	2.00	"								
Lead	ND	0.500	"								
Magnesium	ND	5.00	"								
Manganese	ND	0.500	"								
Nickel	ND	0.500	"								
Potassium	ND	5.00	"								
Selenium	ND	1.00	"								
Silver	ND	0.500	"								
Sodium	11.6	10.0	"								
Thallium	ND	1.00	"								
Vanadium	ND	1.00	"								
Zinc	ND	1.50	"								
Reference (BH80724-SRM1)								Prepared: 08/15/2018 Analyzed: 08/20/2018			
Aluminum	8270	5.00	mg/kg wet	8040		103	39.4-160.5				
Antimony	113	0.500	"	91.4		124	25.1-275.7				
Arsenic	164	1.00	"	146		112	69.9-132.9				
Barium	112	1.00	"	102		109	71.5-136.3				
Beryllium	152	0.100	"	134		113	75.4-138.1				
Cadmium	68.0	0.300	"	63.2		108	73.3-141.5				
Calcium	6610	5.00	"	5930		111	73.7-136.1				
Chromium	97.0	0.500	"	89.3		109	69.1-143.3				
Cobalt	141	0.500	"	119		118	74.6-142				
Copper	69.2	0.500	"	60.8		114	72.7-141.6				
Iron	14700	2.00	"	14400		102	35.6-163.9				
Lead	112	0.500	"	98.5		114	70.8-137.1				
Magnesium	2810	5.00	"	2580		109	63.6-136.1				
Manganese	420	0.500	"	370		113	75.7-134.3				
Nickel	82.5	0.500	"	66.6		124	70.7-146.3				
Potassium	2610	5.00	"	2340		111	59.8-140.2				
Selenium	129	1.00	"	136		94.5	67.1-136.8				
Silver	52.2	0.500	"	48.9		107	66.5-139.5				
Sodium	364	10.0	"	318		114	40.6-159.8				
Thallium	153	1.00	"	138		111	68-136.2				
Vanadium	72.2	1.00	"	69.7		104	58.9-141.8				
Zinc	195	1.50	"	177		110	69.5-131.1				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80935 - EPA 7473 soil											
Blank (BH80935-BLK1)								Prepared & Analyzed: 08/20/2018			
Mercury	ND	0.0300	mg/kg wet								
Reference (BH80935-SRM1)								Prepared & Analyzed: 08/20/2018			
Mercury	13.003		mg/kg	13.8		94.2	57.1-143.5				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18H0563-01	SB-1 (0'-2')	40mL Vial with Stir Bar-Cool 4° C
18H0563-02	SB-1 (21'-23')	40mL Vial with Stir Bar-Cool 4° C
18H0563-03	SB-2 (0'-2')	40mL Vial with Stir Bar-Cool 4° C
18H0563-04	SB-2 (21'-23')	40mL Vial with Stir Bar-Cool 4° C
18H0563-05	SB-3 (0'-2')	40mL Vial with Stir Bar-Cool 4° C
18H0563-06	SB-4 (0'-2')	40mL Vial with Stir Bar-Cool 4° C
18H0563-07	SB-4 (17'-19')	40mL Vial with Stir Bar-Cool 4° C
18H0563-08	SB-5 (0'-2')	40mL Vial with Stir Bar-Cool 4° C
18H0563-09	SB-5 (10'-12')	40mL Vial with Stir Bar-Cool 4° C
18H0563-10	SB-6 (0'-2')	40mL Vial with Stir Bar-Cool 4° C
18H0563-11	SB-6 (10'-12')	40mL Vial with Stir Bar-Cool 4° C
18H0563-12	SB-7 (0'-2')	40mL Vial with Stir Bar-Cool 4° C
18H0563-13	SB-7 (10'-12')	40mL Vial with Stir Bar-Cool 4° C
18H0563-14	SB-8 (0'-2')	40mL Vial with Stir Bar-Cool 4° C
18H0563-15	SB-8 (17'-19')	2 oz. WM Clear Glass Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

S-GC	Two surrogates are used for this analysis. One surrogate recovered within control limits therefore the analysis is acceptable.
S-08	The recovery of this surrogate was outside of QC limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QL-03	This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
M-MBLk	Analyte was detected in the batch method blank above the Reporting Limit.
M-CRL	The RL check for this element recovered outside of control limits.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
IS-LO	The internal std associated with this target compound did not meet acceptance criteria (area <50% CCV) at the stated dilution due to matrix effects. Sample was rerun to confirm matrix effects.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

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

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

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Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 18H0563

YOUR Information	Report To:	Invoice To:
Company: GEI Consultants	Company: GEI Consultants	Company:
Address: 110 Walt Whitman Road	Address: 110 Walt Whitman Road	Address: → same
Phone: 631-760-9300	Phone: 631-760-9300	Phone:
Contact: Wendy William J. Fitchett	Contact: Wendy Monteasso	Contact:
E-mail: wfitchett@geiconsultants.com	E-mail: wMonteasso@geiconsultants.com	E-mail:

YOUR Project Number:

YOUR Project Name: 580 Gerard Ave

YOUR PO#:

Turn-Around Time
- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard (5-7 Day) ✓

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

Samples Collected by: (print your name above and sign below)
William J. Fitchett
W J Fitchett

Matrix Codes
- S - soil / solid
- GW - groundwater
- DW - drinking water
- WW - wastewater
- O - Oil ⋮ Other

Samples From
- New York ✓
- New Jersey
- Connecticut
- Pennsylvania
- Other

Report / EDD Type (circle selections)
- Summary Report
- QA Report
- NY ASP A Package
- NY ASP B Package
- CT RCP
- CT RCP DQA/DUE
- NJDEP Reduced Deliverables
- NJDKQP
- Standard Excel EDD
- EQuIS (Standard)
- NYSDEC EQuIS
- NJDEP SRP HazSite
- Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB-1 (0'-2')	S	8/10/18 1540	TCL VOCs/SVOCs, TAL Metals, PCBs, Pesticides (8260) (8270) (8082) (8081)	Terracore Kit, one 4oz, one 8-oz jar
SB-1 (10'-12')	S	8/10/18 1600		
SB-2 (0'-2')	S	8/10/18 1021		
SB-2 (21'-23')	S	8/10/18 1055		
SB-3 (0'-2')	S	8/10/18 1430		
SB-4 (0'-2')	S	8/10/18 1315		
SB-4 (17'-19')	S	8/10/18 1325		
SB-5 (0'-2')	S	8/10/18 1125		
SB-5 (10'-12')	S	8/10/18 1145		
SB-6 (0'-2')	S	8/10/18 1207		

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: _____

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
W J Fitchett / GEI	8/13/18 1025AM	K Buch	8/13/18 1025AM	K Buch	8/13/18 1645
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				[illegible] 8-13-18	1645

Temp. Received at Lab: 1.6 Degrees C

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

YORK ANALYTICAL LABORATORIES INC

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 18H0563

YOUR Information	Report To:	Invoice To:
Company: GEI Consultants	Company: GEI Consultants	Company:
Address: 110 Walt Whitman Rd, Huntington Station, NY	Address: → same	Address: → (same)
Phone: 631-760-9300	Phone: → same	Phone:
Contact: William J. Fitchett	Contact: Wendy Monterosso	Contact:
E-mail: wfitchett@geiconsultants.com	E-mail: wmonterosso@geiconsultants.com	E-mail:

YOUR Project Number:

YOUR Project Name: 580 Gerard Ave

YOUR PO#:

Turn-Around Time

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

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

Samples Collected by: (print your name above and sign below)
William J. Fitchett
W J Fitchett

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil ⋮ Other

Samples From: New York ✓; New Jersey; Connecticut; Pennsylvania; Other

Report / EDD Type (circle selections): Summary Report; QA Report; NY ASP A Package; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB-6 (10'-12')	S	8/10/18 1225	TCL VOCs/SVOCs TAL Metals, PCBs, Pesticides (8260) (8270) (8082) (8081)	Terracore kit one 4oz, one 8oz
SB-7 (0'-2')	S	8/10/18 1415		
SB-7 (10'-12')	S	8/10/18 1346		
SB-8 (0'-2')	S	8/10/18 1620		
SB-8 (17'-19')	S	8/10/18 1635		

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: _____

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
W J Fitchett / GEI	8/13/18 1025AM	[illegible]	8/13/18 1025AM	[illegible]	8/13/18 1645
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				[illegible]	8-13-18 1645

Temp. Received at Lab: 1.6 Degrees C

Technical Report

prepared for:

GEI Consultants, Inc
110 Walt Whitman Road, Suite 204
Huntington Station NY, 11746
Attention: Wendy Monterosso

Report Date: 08/21/2018
Client Project ID: 580 Gerard Ave
York Project (SDG) No.: 18H0570

Report Date: 08/21/2018
Client Project ID: 580 Gerard Ave
York Project (SDG) No.: 18H0570

GEI Consultants, Inc
110 Walt Whitman Road, Suite 204
Huntington Station NY, 11746
Attention: Wendy Monterosso

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 13, 2018 and listed below. The project was identified as your project: **580 Gerard Ave**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
18H0570-01	SB-2 (GW)	Water	08/10/2018	08/13/2018
18H0570-02	Trip Blank	Water	08/10/2018	08/13/2018

General Notes for York Project (SDG) No.: 18H0570

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: **Date:** 08/21/2018

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **SB-2 (GW)** **York Sample ID:** **18H0570-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 5:15 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
95-63-6	**1,2,4-Trimethylbenzene**	**1200**		ug/L	2.0	5.0	10	EPA 8260C Certifications:	08/17/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 13:44	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
108-67-8	**1,3,5-Trimethylbenzene**	**340**		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
123-91-1	1,4-Dioxane	ND		ug/L	200	1000	5	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
78-93-3	2-Butanone	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
591-78-6	2-Hexanone	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS

Sample Information

Client Sample ID: **SB-2 (GW)** **York Sample ID:** **18H0570-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 5:15 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
67-64-1	Acetone	ND		ug/L	5.0	10	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
107-02-8	Acrolein	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	10	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
71-43-2	Benzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
74-97-5	Bromochloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
75-27-4	Bromodichloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
75-25-2	Bromoform	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
74-83-9	Bromomethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
75-15-0	Carbon disulfide	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
56-23-5	Carbon tetrachloride	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
108-90-7	Chlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
75-00-3	Chloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
67-66-3	**Chloroform**	**10**		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
74-87-3	Chloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
110-82-7	**Cyclohexane**	**95**		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
124-48-1	Dibromochloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
74-95-3	Dibromomethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
100-41-4	Ethyl Benzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS

Sample Information

Client Sample ID: **SB-2 (GW)** **York Sample ID:** **18H0570-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 5:15 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	**Isopropylbenzene**	**47**		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
79-20-9	Methyl acetate	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
108-87-2	**Methylcyclohexane**	**180**		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
75-09-2	Methylene chloride	ND		ug/L	5.0	10	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
104-51-8	**n-Butylbenzene**	**43**		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
103-65-1	**n-Propylbenzene**	**110**		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
95-47-6	o-Xylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
179601-23-1	**p- & m- Xylenes**	**3.2**	SCAL-E, J	ug/L	2.5	5.0	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
99-87-6	**p-Isopropyltoluene**	**7.2**		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
135-98-8	**sec-Butylbenzene**	**12**		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
100-42-5	Styrene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	2.5	12	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
98-06-6	tert-Butylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
127-18-4	Tetrachloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
108-88-3	**Toluene**	**1.6**	J	ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 07:30	08/16/2018 18:45	SS
79-01-6	Trichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
75-01-4	Vinyl Chloride	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
1330-20-7	**Xylenes, Total**	**3.2**	J	ug/L	3.0	7.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 07:30	08/16/2018 18:45	SS

Sample Information

Client Sample ID: **SB-2 (GW)** **York Sample ID:** **18H0570-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 5:15 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

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

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*118 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*98.6 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*91.3 %*	*79-122*

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
95-57-8	2-Chlorophenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
91-57-6	**2-Methylnaphthalene**	**96.6**		ug/L	15.6	31.2	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/17/2018 13:01	KH

Sample Information

Client Sample ID: **SB-2 (GW)** **York Sample ID:** **18H0570-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 5:15 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
88-74-4	2-Nitroaniline	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
88-75-5	2-Nitrophenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
99-09-2	3-Nitroaniline	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
106-47-8	4-Chloroaniline	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
100-01-6	4-Nitroaniline	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
100-02-7	4-Nitrophenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
83-32-9	**Acenaphthene**	**0.100**		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
98-86-2	Acetophenone	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
62-53-3	Aniline	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
120-12-7	Anthracene	ND		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
1912-24-9	Atrazine	ND		ug/L	0.625	0.625	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
100-52-7	Benzaldehyde	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
92-87-5	Benzidine	ND		ug/L	12.5	25.0	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR

Sample Information

Client Sample ID: **SB-2 (GW)** **York Sample ID:** **18H0570-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 5:15 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
65-85-0	Benzoic acid	ND		ug/L	31.2	62.5	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
100-51-6	Benzyl alcohol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.750**		ug/L	0.625	0.625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
105-60-2	Caprolactam	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
86-74-8	Carbazole	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
218-01-9	Chrysene	ND		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
132-64-9	Dibenzofuran	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
84-66-2	Diethyl phthalate	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
131-11-3	Dimethyl phthalate	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
206-44-0	Fluoranthene	ND		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
86-73-7	**Fluorene**	**0.100**		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0250	0.0250	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	0.625	0.625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR

Sample Information

Client Sample ID: **SB-2 (GW)** **York Sample ID:** **18H0570-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 5:15 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
67-72-1	Hexachloroethane	ND		ug/L	0.625	0.625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
78-59-1	Isophorone	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
91-20-3	**Naphthalene**	**19.6**		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
98-95-3	Nitrobenzene	ND		ug/L	0.312	0.312	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.625	0.625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.312	0.312	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
85-01-8	**Phenanthrene**	**0.150**		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
108-95-2	Phenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
129-00-0	Pyrene	ND		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*42.1 %*	*19.7-63.1*
4165-62-2	*Surrogate: Phenol-d5*	*25.3 %*	*10.1-41.7*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*80.3 %*	*50.2-113*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*84.4 %*	*39.9-105*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*94.1 %*	*39.3-151*
1718-51-0	*Surrogate: Terphenyl-d14*	*101 %*	*30.7-106*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:** **EXT-EM**

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

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
72-55-9	4,4'-DDE	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
50-29-3	4,4'-DDT	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB

Sample Information

Client Sample ID: **SB-2 (GW)** **York Sample ID:** **18H0570-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 5:15 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:** EXT-EM

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

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
319-84-6	alpha-BHC	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
5103-71-9	alpha-Chlordane	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
319-85-7	beta-BHC	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
57-74-9	Chlordane, total	ND		ug/L	0.0229	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
319-86-8	delta-BHC	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
60-57-1	Dieldrin	ND		ug/L	0.00229	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
959-98-8	Endosulfan I	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
33213-65-9	Endosulfan II	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
72-20-8	Endrin	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
7421-93-4	Endrin aldehyde	ND		ug/L	0.0114	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
53494-70-5	Endrin ketone	ND		ug/L	0.0114	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
5566-34-7	gamma-Chlordane	ND		ug/L	0.0114	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
76-44-8	Heptachlor	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
72-43-5	Methoxychlor	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
8001-35-2	Toxaphene	ND		ug/L	0.114	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*59.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*47.2 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:** EXT-EM

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

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

Sample Information

Client Sample ID: **SB-2 (GW)** **York Sample ID:** **18H0570-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 5:15 pm	08/13/2018

12674-11-2	Aroclor 1016	ND	ug/L	0.0571	1	EPA 8082A Certifications:	08/14/2018 08:21 NELAC-NY10854,CTDOH,NJDEP,PADEP	08/20/2018 14:47	LAB
11104-28-2	Aroclor 1221	ND	ug/L	0.0571	1	EPA 8082A Certifications:	08/14/2018 08:21 NELAC-NY10854,CTDOH,NJDEP,PADEP	08/20/2018 14:47	LAB
11141-16-5	Aroclor 1232	ND	ug/L	0.0571	1	EPA 8082A Certifications:	08/14/2018 08:21 NELAC-NY10854,CTDOH,NJDEP,PADEP	08/20/2018 14:47	LAB
53469-21-9	Aroclor 1242	ND	ug/L	0.0571	1	EPA 8082A Certifications:	08/14/2018 08:21 NELAC-NY10854,CTDOH,NJDEP,PADEP	08/20/2018 14:47	LAB
12672-29-6	Aroclor 1248	ND	ug/L	0.0571	1	EPA 8082A Certifications:	08/14/2018 08:21 NELAC-NY10854,CTDOH,NJDEP,PADEP	08/20/2018 14:47	LAB
11097-69-1	Aroclor 1254	ND	ug/L	0.0571	1	EPA 8082A Certifications:	08/14/2018 08:21 NELAC-NY10854,CTDOH,NJDEP,PADEP	08/20/2018 14:47	LAB
11096-82-5	Aroclor 1260	ND	ug/L	0.0571	1	EPA 8082A Certifications:	08/14/2018 08:21 NELAC-NY10854,CTDOH,NJDEP,PADEP	08/20/2018 14:47	LAB
1336-36-3	* Total PCBs	ND	ug/L	0.0571	1	EPA 8082A Certifications:	08/14/2018 08:21	08/20/2018 14:47	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*62.9 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*%*	*30-120*

Metals, TAL, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**830**		ug/L	10.0	1	EPA 6020A Certifications:	08/15/2018 10:59 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/21/2018 18:43	ZZZ
7440-36-0	Antimony	ND		ug/L	1.00	1	EPA 6020A Certifications:	08/15/2018 10:59 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/21/2018 18:43	ZZZ
7440-38-2	Arsenic	ND		ug/L	1.00	1	EPA 6020A Certifications:	08/15/2018 10:59 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/21/2018 18:43	ZZZ
7440-39-3	**Barium**	**68.0**		ug/L	1.00	1	EPA 6020A Certifications:	08/15/2018 10:59 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/21/2018 18:43	ZZZ
7440-41-7	Beryllium	ND		ug/L	0.300	1	EPA 6020A Certifications:	08/15/2018 10:59 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/21/2018 18:43	ZZZ
7440-43-9	**Cadmium**	**0.746**		ug/L	0.500	1	EPA 6020A Certifications:	08/15/2018 10:59 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/21/2018 18:43	ZZZ
7440-47-3	**Chromium**	**4.79**		ug/L	1.00	1	EPA 6020A Certifications:	08/15/2018 10:59 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/21/2018 18:43	ZZZ
7440-48-4	**Cobalt**	**2.94**		ug/L	1.00	1	EPA 6020A Certifications:	08/15/2018 10:59 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/21/2018 18:43	ZZZ
7440-50-8	**Copper**	**11.0**		ug/L	1.00	1	EPA 6020A Certifications:	08/15/2018 10:59 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/21/2018 18:43	ZZZ
7439-89-6	**Iron**	**1730**	B	ug/L	10.0	1	EPA 6020A Certifications:	08/15/2018 10:59 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/21/2018 18:43	ZZZ
7439-92-1	**Lead**	**22.3**		ug/L	1.00	1	EPA 6020A Certifications:	08/15/2018 10:59 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/21/2018 18:43	ZZZ
7439-96-5	**Manganese**	**111**		ug/L	1.00	1	EPA 6020A Certifications:	08/15/2018 10:59 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/21/2018 18:43	ZZZ

Sample Information

Client Sample ID: **SB-2 (GW)** **York Sample ID:** **18H0570-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 5:15 pm	08/13/2018

Metals, TAL, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	**Nickel**	**3.40**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:43	ZZZ
7782-49-2	Selenium	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:43	ZZZ
7440-22-4	Silver	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:43	ZZZ
7440-28-0	Thallium	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:43	ZZZ
7440-62-2	**Vanadium**	**3.51**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:43	ZZZ
7440-66-6	**Zinc**	**19.9**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:43	ZZZ

Metals, TAL, ICPMS Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**396**		ug/L	10.0	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7440-36-0	Antimony	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7440-38-2	Arsenic	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7440-39-3	**Barium**	**68.7**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7440-41-7	Beryllium	ND		ug/L	0.300	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7440-43-9	**Cadmium**	**0.760**		ug/L	0.500	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7440-47-3	**Chromium**	**3.17**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7440-48-4	**Cobalt**	**2.51**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7440-50-8	**Copper**	**6.75**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7439-89-6	**Iron**	**1290**		ug/L	10.0	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7439-92-1	**Lead**	**19.6**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7439-96-5	**Manganese**	**105**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7440-02-0	**Nickel**	**2.42**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7782-49-2	Selenium	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML

Sample Information

Client Sample ID: **SB-2 (GW)** **York Sample ID:** **18H0570-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 5:15 pm	08/13/2018

Metals, TAL, ICPMS Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7440-28-0	Thallium	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7440-62-2	**Vanadium**	**1.40**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7440-66-6	**Zinc**	**18.8**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		ug/L	0.20	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/20/2018 09:12	08/20/2018 14:26	SY

Mercury by 7473, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/20/2018 09:14	08/20/2018 12:24	SY

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **18H0570-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 3:00 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **18H0570-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 3:00 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	200	1	EPA 8260C Certifications:	08/15/2018 15:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **18H0570-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 3:00 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **18H0570-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 3:00 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	2.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/15/2018 15:52	08/16/2018 01:04	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/15/2018 15:52	08/16/2018 01:04	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*103 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*101 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*106 %*	*79-122*

Analytical Batch Summary

Batch ID: BH80646 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
18H0570-01	SB-2 (GW)	08/14/18
18H0570-01	SB-2 (GW)	08/14/18
BH80646-BLK1	Blank	08/14/18
BH80646-BLK2	Blank	08/14/18
BH80646-BS1	LCS	08/14/18
BH80646-BS2	LCS	08/14/18
BH80646-BSD2	LCS Dup	08/14/18

Batch ID: BH80648 **Preparation Method:** EPA 3510C **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
18H0570-01	SB-2 (GW)	08/14/18
18H0570-01RE1	SB-2 (GW)	08/14/18
BH80648-BLK1	Blank	08/14/18
BH80648-BLK2	Blank	08/14/18
BH80648-BS1	LCS	08/14/18
BH80648-BS2	LCS	08/14/18
BH80648-BSD1	LCS Dup	08/14/18

Batch ID: BH80751 **Preparation Method:** EPA 3015A **Prepared By:** BML

YORK Sample ID	Client Sample ID	Preparation Date
18H0570-01	SB-2 (GW)	08/15/18
BH80751-BLK1	Blank	08/15/18
BH80751-BS1	LCS	08/15/18

Batch ID: BH80752 **Preparation Method:** EPA 3015A **Prepared By:** BML

YORK Sample ID	Client Sample ID	Preparation Date
18H0570-01	SB-2 (GW)	08/15/18
BH80752-BLK1	Blank	08/15/18
BH80752-BS1	LCS	08/15/18

Batch ID: BH80772 **Preparation Method:** EPA 5030B **Prepared By:** RDS

YORK Sample ID	Client Sample ID	Preparation Date
18H0570-02	Trip Blank	08/15/18
BH80772-BLK1	Blank	08/15/18
BH80772-BS1	LCS	08/15/18
BH80772-BSD1	LCS Dup	08/15/18

Batch ID: BH80792 **Preparation Method:** EPA 5030B **Prepared By:** TAB

YORK Sample ID	Client Sample ID	Preparation Date
18H0570-01	SB-2 (GW)	08/16/18
BH80792-BLK1	Blank	08/16/18
BH80792-BS1	LCS	08/16/18
BH80792-BSD1	LCS Dup	08/16/18

Batch ID: BH80893 **Preparation Method:** EPA 5030B **Prepared By:** RDS

YORK Sample ID	Client Sample ID	Preparation Date
18H0570-01RE1	SB-2 (GW)	08/17/18
BH80893-BLK1	Blank	08/17/18
BH80893-BS1	LCS	08/17/18
BH80893-BSD1	LCS Dup	08/17/18

Batch ID: BH80937 **Preparation Method:** EPA 7473 water **Prepared By:** KML

YORK Sample ID	Client Sample ID	Preparation Date
18H0570-01	SB-2 (GW)	08/20/18
BH80937-BLK1	Blank	08/20/18
BH80937-SRM1	Reference	08/20/18

Batch ID: BH80938 **Preparation Method:** EPA 7473 water **Prepared By:** KML

YORK Sample ID	Client Sample ID	Preparation Date
18H0570-01	SB-2 (GW)	08/20/18
BH80938-BLK1	Blank	08/20/18
BH80938-SRM1	Reference	08/20/18

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80772 - EPA 5030B											
Blank (BH80772-BLK1)									Prepared: 08/15/2018 Analyzed: 08/16/2018		
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80772 - EPA 5030B											
Blank (BH80772-BLK1)								Prepared: 08/15/2018 Analyzed: 08/16/2018			
n-Butylbenzene	ND	0.50	ug/L								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: 1,2-Dichloroethane-d4	*10.8*		*"*	*10.0*		*108*	*69-130*				
Surrogate: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*79-122*				
LCS (BH80772-BS1)								Prepared & Analyzed: 08/15/2018			
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		102	82-126				
1,1,1-Trichloroethane	9.9		"	10.0		99.4	78-136				
1,1,2,2-Tetrachloroethane	9.6		"	10.0		95.8	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10		"	10.0		99.9	54-165				
1,1,2-Trichloroethane	9.7		"	10.0		97.4	82-123				
1,1-Dichloroethane	10		"	10.0		103	82-129				
1,1-Dichloroethylene	10		"	10.0		101	68-138				
1,2,3-Trichlorobenzene	10		"	10.0		103	76-136				
1,2,3-Trichloropropane	9.8		"	10.0		98.2	77-128				
1,2,4-Trichlorobenzene	9.8		"	10.0		97.6	76-137				
1,2,4-Trimethylbenzene	10		"	10.0		102	82-132				
1,2-Dibromo-3-chloropropane	9.7		"	10.0		97.3	45-147				
1,2-Dibromoethane	9.8		"	10.0		98.3	83-124				
1,2-Dichlorobenzene	9.9		"	10.0		98.7	79-123				
1,2-Dichloroethane	11		"	10.0		107	73-132				
1,2-Dichloropropane	10		"	10.0		100	78-126				
1,3,5-Trimethylbenzene	10		"	10.0		103	80-131				
1,3-Dichlorobenzene	9.9		"	10.0		98.8	86-122				
1,4-Dichlorobenzene	9.7		"	10.0		96.7	85-124				
1,4-Dioxane	250		"	210		120	10-349				
2-Butanone	10		"	10.0		102	49-152				
2-Hexanone	11		"	10.0		106	51-146				
4-Methyl-2-pentanone	11		"	10.0		109	57-145				
Acetone	11		"	10.0		108	14-150				
Acrolein	7.1		"	10.0		70.8	10-153				
Acrylonitrile	7.9		"	10.0		79.0	51-150				
Benzene	9.8		"	10.0		98.5	85-126				
Bromochloromethane	10		"	10.0		102	77-128				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80772 - EPA 5030B											
LCS (BH80772-BS1)							Prepared & Analyzed: 08/15/2018				
Bromodichloromethane	10		ug/L	10.0		101	79-128				
Bromoform	9.6		"	10.0		96.4	78-133				
Bromomethane	9.2		"	10.0		91.7	43-168				
Carbon disulfide	10		"	10.0		104	68-146				
Carbon tetrachloride	10		"	10.0		99.7	77-141				
Chlorobenzene	10		"	10.0		101	88-120				
Chloroethane	9.6		"	10.0		95.5	65-136				
Chloroform	9.9		"	10.0		98.6	82-128				
Chloromethane	9.1		"	10.0		90.7	43-155				
cis-1,2-Dichloroethylene	9.9		"	10.0		99.1	83-129				
cis-1,3-Dichloropropylene	9.9		"	10.0		99.1	80-131				
Cyclohexane	10		"	10.0		104	63-149				
Dibromochloromethane	10		"	10.0		102	80-130				
Dibromomethane	10		"	10.0		100	72-134				
Dichlorodifluoromethane	9.4		"	10.0		94.5	44-144				
Ethyl Benzene	10		"	10.0		105	80-131				
Hexachlorobutadiene	10		"	10.0		103	67-146				
Isopropylbenzene	10		"	10.0		100	76-140				
Methyl acetate	10		"	10.0		102	51-139				
Methyl tert-butyl ether (MTBE)	11		"	10.0		106	76-135				
Methylcyclohexane	10		"	10.0		102	72-143				
Methylene chloride	11		"	10.0		109	55-137				
n-Butylbenzene	10		"	10.0		105	79-132				
n-Propylbenzene	10		"	10.0		104	78-133				
o-Xylene	11		"	10.0		106	78-130				
p- & m- Xylenes	19		"	20.0		94.6	77-133				
p-Isopropyltoluene	10		"	10.0		104	81-136				
sec-Butylbenzene	11		"	10.0		108	79-137				
Styrene	10		"	10.0		101	67-132				
tert-Butyl alcohol (TBA)	52		"	50.0		104	25-162				
tert-Butylbenzene	10		"	10.0		102	77-138				
Tetrachloroethylene	7.3		"	10.0		73.4	82-131	Low Bias			
Toluene	10		"	10.0		102	80-127				
trans-1,2-Dichloroethylene	10		"	10.0		102	80-132				
trans-1,3-Dichloropropylene	9.7		"	10.0		97.1	78-131				
trans-1,4-dichloro-2-butene	9.7		"	10.0		97.4	63-141				
Trichloroethylene	11		"	10.0		106	82-128				
Trichlorofluoromethane	9.8		"	10.0		97.5	67-139				
Vinyl Chloride	9.7		"	10.0		97.1	58-145				
Surrogate: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*69-130*				
Surrogate: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.0*		*"*	*10.0*		*100*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80772 - EPA 5030B											
LCS Dup (BH80772-BSD1)							Prepared & Analyzed: 08/15/2018				
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		101	82-126		1.28	30	
1,1,1-Trichloroethane	10		"	10.0		104	78-136		4.43	30	
1,1,2,2-Tetrachloroethane	9.5		"	10.0		94.7	76-129		1.15	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		106	54-165		5.64	30	
1,1,2-Trichloroethane	9.7		"	10.0		96.9	82-123		0.515	30	
1,1-Dichloroethane	10		"	10.0		104	82-129		1.25	30	
1,1-Dichloroethylene	11		"	10.0		106	68-138		5.41	30	
1,2,3-Trichlorobenzene	9.9		"	10.0		98.7	76-136		3.97	30	
1,2,3-Trichloropropane	9.6		"	10.0		96.2	77-128		2.06	30	
1,2,4-Trichlorobenzene	9.4		"	10.0		94.1	76-137		3.65	30	
1,2,4-Trimethylbenzene	10		"	10.0		101	82-132		1.08	30	
1,2-Dibromo-3-chloropropane	9.9		"	10.0		98.6	45-147		1.33	30	
1,2-Dibromoethane	9.8		"	10.0		98.5	83-124		0.203	30	
1,2-Dichlorobenzene	9.8		"	10.0		98.1	79-123		0.610	30	
1,2-Dichloroethane	11		"	10.0		107	73-132		0.0933	30	
1,2-Dichloropropane	9.8		"	10.0		98.1	78-126		2.22	30	
1,3,5-Trimethylbenzene	10		"	10.0		102	80-131		0.0975	30	
1,3-Dichlorobenzene	9.7		"	10.0		96.7	86-122		2.15	30	
1,4-Dichlorobenzene	9.5		"	10.0		95.3	85-124		1.46	30	
1,4-Dioxane	310		"	210		148	10-349		20.8	30	
2-Butanone	10		"	10.0		105	49-152		2.51	30	
2-Hexanone	11		"	10.0		108	51-146		2.06	30	
4-Methyl-2-pentanone	11		"	10.0		109	57-145		0.0920	30	
Acetone	12		"	10.0		117	14-150		8.00	30	
Acrolein	7.2		"	10.0		72.1	10-153		1.82	30	
Acrylonitrile	9.1		"	10.0		91.0	51-150		14.1	30	
Benzene	10		"	10.0		100	85-126		1.61	30	
Bromochloromethane	10		"	10.0		101	77-128		1.08	30	
Bromodichloromethane	9.9		"	10.0		98.9	79-128		2.50	30	
Bromoform	9.8		"	10.0		97.9	78-133		1.54	30	
Bromomethane	8.9		"	10.0		88.6	43-168		3.44	30	
Carbon disulfide	11		"	10.0		109	68-146		4.59	30	
Carbon tetrachloride	11		"	10.0		106	77-141		5.94	30	
Chlorobenzene	10		"	10.0		101	88-120		0.0993	30	
Chloroethane	9.9		"	10.0		98.7	65-136		3.30	30	
Chloroform	10		"	10.0		99.9	82-128		1.31	30	
Chloromethane	9.2		"	10.0		91.8	43-155		1.21	30	
cis-1,2-Dichloroethylene	9.8		"	10.0		98.2	83-129		0.912	30	
cis-1,3-Dichloropropylene	9.7		"	10.0		96.6	80-131		2.55	30	
Cyclohexane	11		"	10.0		111	63-149		6.49	30	
Dibromochloromethane	10		"	10.0		101	80-130		0.989	30	
Dibromomethane	9.9		"	10.0		98.9	72-134		1.11	30	
Dichlorodifluoromethane	10		"	10.0		99.6	44-144		5.26	30	
Ethyl Benzene	11		"	10.0		105	80-131		0.476	30	
Hexachlorobutadiene	10		"	10.0		103	67-146		0.291	30	
Isopropylbenzene	10		"	10.0		102	76-140		1.78	30	
Methyl acetate	9.6		"	10.0		95.5	51-139		6.29	30	
Methyl tert-butyl ether (MTBE)	11		"	10.0		106	76-135		0.754	30	
Methylcyclohexane	11		"	10.0		108	72-143		5.24	30	
Methylene chloride	11		"	10.0		108	55-137		0.831	30	
n-Butylbenzene	11		"	10.0		105	79-132		0.666	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80772 - EPA 5030B											
LCS Dup (BH80772-BSD1)								Prepared & Analyzed: 08/15/2018			
n-Propylbenzene	10		ug/L	10.0		104	78-133		0.577	30	
o-Xylene	11		"	10.0		105	78-130		0.946	30	
p- & m- Xylenes	19		"	20.0		93.6	77-133		1.01	30	
p-Isopropyltoluene	11		"	10.0		105	81-136		1.43	30	
sec-Butylbenzene	11		"	10.0		109	79-137		1.57	30	
Styrene	10		"	10.0		99.9	67-132		0.996	30	
tert-Butyl alcohol (TBA)	57		"	50.0		113	25-162		8.43	30	
tert-Butylbenzene	10		"	10.0		102	77-138		0.685	30	
Tetrachloroethylene	7.5		"	10.0		75.0	82-131	Low Bias	2.16	30	
Toluene	10		"	10.0		102	80-127		0.0982	30	
trans-1,2-Dichloroethylene	10		"	10.0		104	80-132		1.94	30	
trans-1,3-Dichloropropylene	9.4		"	10.0		94.5	78-131		2.71	30	
trans-1,4-dichloro-2-butene	9.5		"	10.0		95.4	63-141		2.07	30	
Trichloroethylene	11		"	10.0		106	82-128		0.378	30	
Trichlorofluoromethane	11		"	10.0		109	67-139		11.0	30	
Vinyl Chloride	10		"	10.0		102	58-145		5.22	30	
Surrogate: 1,2-Dichloroethane-d4	*10.5*		*"*	*10.0*		*105*	*69-130*				
Surrogate: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.0*		*"*	*10.0*		*100*	*79-122*				
Batch BH80792 - EPA 5030B											
Blank (BH80792-BLK1)								Prepared & Analyzed: 08/16/2018			
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80792 - EPA 5030B											
Blank (BH80792-BLK1)								Prepared & Analyzed: 08/16/2018			
Bromodichloromethane	ND	0.50	ug/L								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: 1,2-Dichloroethane-d4	*10.8*		*"*	*10.0*		*108*	*69-130*				
Surrogate: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80792 - EPA 5030B											
LCS (BH80792-BS1)							Prepared & Analyzed: 08/16/2018				
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		103	82-126				
1,1,1-Trichloroethane	11		"	10.0		106	78-136				
1,1,2,2-Tetrachloroethane	10		"	10.0		104	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		116	54-165				
1,1,2-Trichloroethane	9.7		"	10.0		96.9	82-123				
1,1-Dichloroethane	11		"	10.0		108	82-129				
1,1-Dichloroethylene	11		"	10.0		109	68-138				
1,2,3-Trichlorobenzene	11		"	10.0		109	76-136				
1,2,3-Trichloropropane	10		"	10.0		103	77-128				
1,2,4-Trichlorobenzene	10		"	10.0		99.9	76-137				
1,2,4-Trimethylbenzene	11		"	10.0		105	82-132				
1,2-Dibromo-3-chloropropane	10		"	10.0		103	45-147				
1,2-Dibromoethane	10		"	10.0		100	83-124				
1,2-Dichlorobenzene	10		"	10.0		101	79-123				
1,2-Dichloroethane	11		"	10.0		107	73-132				
1,2-Dichloropropane	10		"	10.0		100	78-126				
1,3,5-Trimethylbenzene	11		"	10.0		106	80-131				
1,3-Dichlorobenzene	10		"	10.0		99.9	86-122				
1,4-Dichlorobenzene	9.9		"	10.0		98.9	85-124				
1,4-Dioxane	350		"	210		165	10-349				
2-Butanone	11		"	10.0		114	49-152				
2-Hexanone	11		"	10.0		108	51-146				
4-Methyl-2-pentanone	11		"	10.0		108	57-145				
Acetone	10		"	10.0		101	14-150				
Acrolein	18		"	10.0		184	10-153	High Bias			
Acrylonitrile	8.5		"	10.0		84.8	51-150				
Benzene	10		"	10.0		102	85-126				
Bromochloromethane	11		"	10.0		105	77-128				
Bromodichloromethane	10		"	10.0		100	79-128				
Bromoform	10		"	10.0		99.6	78-133				
Bromomethane	10		"	10.0		99.8	43-168				
Carbon disulfide	12		"	10.0		120	68-146				
Carbon tetrachloride	11		"	10.0		109	77-141				
Chlorobenzene	10		"	10.0		102	88-120				
Chloroethane	9.6		"	10.0		96.1	65-136				
Chloroform	10		"	10.0		102	82-128				
Chloromethane	10		"	10.0		104	43-155				
cis-1,2-Dichloroethylene	11		"	10.0		106	83-129				
cis-1,3-Dichloropropylene	10		"	10.0		102	80-131				
Cyclohexane	12		"	10.0		116	63-149				
Dibromochloromethane	10		"	10.0		99.6	80-130				
Dibromomethane	10		"	10.0		101	72-134				
Dichlorodifluoromethane	14		"	10.0		141	44-144				
Ethyl Benzene	11		"	10.0		107	80-131				
Hexachlorobutadiene	11		"	10.0		107	67-146				
Isopropylbenzene	10		"	10.0		105	76-140				
Methyl acetate	10		"	10.0		102	51-139				
Methyl tert-butyl ether (MTBE)	11		"	10.0		111	76-135				
Methylcyclohexane	11		"	10.0		112	72-143				
Methylene chloride	11		"	10.0		112	55-137				
n-Butylbenzene	11		"	10.0		111	79-132				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80792 - EPA 5030B											
LCS (BH80792-BS1)								Prepared & Analyzed: 08/16/2018			
n-Propylbenzene	11		ug/L	10.0		109	78-133				
o-Xylene	11		"	10.0		107	78-130				
p- & m- Xylenes	19		"	20.0		96.1	77-133				
p-Isopropyltoluene	11		"	10.0		109	81-136				
sec-Butylbenzene	11		"	10.0		114	79-137				
Styrene	10		"	10.0		103	67-132				
tert-Butyl alcohol (TBA)	57		"	50.0		115	25-162				
tert-Butylbenzene	11		"	10.0		106	77-138				
Tetrachloroethylene	7.6		"	10.0		76.5	82-131	Low Bias			
Toluene	10		"	10.0		104	80-127				
trans-1,2-Dichloroethylene	11		"	10.0		109	80-132				
trans-1,3-Dichloropropylene	10		"	10.0		101	78-131				
trans-1,4-dichloro-2-butene	10		"	10.0		102	63-141				
Trichloroethylene	10		"	10.0		104	82-128				
Trichlorofluoromethane	10		"	10.0		100	67-139				
Vinyl Chloride	11		"	10.0		107	58-145				
Surrogate: 1,2-Dichloroethane-d4	*10.3*		*"*	*10.0*		*103*	*69-130*				
Surrogate: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*79-122*				
LCS Dup (BH80792-BSD1)								Prepared & Analyzed: 08/16/2018			
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		102	82-126		0.681	30	
1,1,1-Trichloroethane	10		"	10.0		101	78-136		4.53	30	
1,1,2,2-Tetrachloroethane	10		"	10.0		100	76-129		3.42	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		107	54-165		8.42	30	
1,1,2-Trichloroethane	9.8		"	10.0		98.2	82-123		1.33	30	
1,1-Dichloroethane	10		"	10.0		105	82-129		3.10	30	
1,1-Dichloroethylene	9.8		"	10.0		98.2	68-138		10.6	30	
1,2,3-Trichlorobenzene	10		"	10.0		104	76-136		5.07	30	
1,2,3-Trichloropropane	9.8		"	10.0		98.3	77-128		4.57	30	
1,2,4-Trichlorobenzene	9.8		"	10.0		98.1	76-137		1.82	30	
1,2,4-Trimethylbenzene	10		"	10.0		102	82-132		2.70	30	
1,2-Dibromo-3-chloropropane	9.9		"	10.0		99.0	45-147		4.06	30	
1,2-Dibromoethane	10		"	10.0		99.8	83-124		0.400	30	
1,2-Dichlorobenzene	9.9		"	10.0		99.2	79-123		1.60	30	
1,2-Dichloroethane	11		"	10.0		106	73-132		0.844	30	
1,2-Dichloropropane	10		"	10.0		101	78-126		0.397	30	
1,3,5-Trimethylbenzene	10		"	10.0		103	80-131		2.87	30	
1,3-Dichlorobenzene	9.8		"	10.0		98.4	86-122		1.51	30	
1,4-Dichlorobenzene	9.8		"	10.0		97.5	85-124		1.43	30	
1,4-Dioxane	170		"	210		81.1	10-349		68.1	30	Non-dir.
2-Butanone	9.6		"	10.0		95.7	49-152		17.5	30	
2-Hexanone	10		"	10.0		105	51-146		2.92	30	
4-Methyl-2-pentanone	11		"	10.0		106	57-145		2.71	30	
Acetone	8.9		"	10.0		89.2	14-150		12.0	30	
Acrolein	18		"	10.0		178	10-153	High Bias	3.38	30	
Acrylonitrile	7.6		"	10.0		76.2	51-150		10.7	30	
Benzene	10		"	10.0		101	85-126		1.18	30	
Bromochloromethane	10		"	10.0		104	77-128		1.53	30	
Bromodichloromethane	10		"	10.0		101	79-128		0.596	30	
Bromoform	9.8		"	10.0		98.4	78-133		1.21	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80792 - EPA 5030B											
LCS Dup (BH80792-BSD1)								Prepared & Analyzed: 08/16/2018			
Bromomethane	9.5		ug/L	10.0		94.6	43-168		5.35	30	
Carbon disulfide	11		"	10.0		113	68-146		6.36	30	
Carbon tetrachloride	10		"	10.0		104	77-141		4.89	30	
Chlorobenzene	10		"	10.0		101	88-120		1.08	30	
Chloroethane	9.1		"	10.0		90.8	65-136		5.67	30	
Chloroform	10		"	10.0		100	82-128		1.39	30	
Chloromethane	10		"	10.0		102	43-155		1.85	30	
cis-1,2-Dichloroethylene	10		"	10.0		104	83-129		1.24	30	
cis-1,3-Dichloropropylene	10		"	10.0		101	80-131		0.494	30	
Cyclohexane	11		"	10.0		110	63-149		5.51	30	
Dibromochloromethane	10		"	10.0		102	80-130		2.18	30	
Dibromomethane	10		"	10.0		100	72-134		0.598	30	
Dichlorodifluoromethane	13		"	10.0		132	44-144		6.65	30	
Ethyl Benzene	11		"	10.0		105	80-131		1.70	30	
Hexachlorobutadiene	10		"	10.0		104	67-146		2.94	30	
Isopropylbenzene	10		"	10.0		102	76-140		2.61	30	
Methyl acetate	9.2		"	10.0		92.3	51-139		9.79	30	
Methyl tert-butyl ether (MTBE)	11		"	10.0		108	76-135		2.01	30	
Methylcyclohexane	11		"	10.0		107	72-143		4.31	30	
Methylene chloride	11		"	10.0		106	55-137		5.40	30	
n-Butylbenzene	11		"	10.0		108	79-132		2.74	30	
n-Propylbenzene	10		"	10.0		105	78-133		3.75	30	
o-Xylene	11		"	10.0		106	78-130		1.69	30	
p- & m- Xylenes	19		"	20.0		94.3	77-133		1.89	30	
p-Isopropyltoluene	10		"	10.0		105	81-136		3.65	30	
sec-Butylbenzene	11		"	10.0		109	79-137		4.23	30	
Styrene	10		"	10.0		100	67-132		2.17	30	
tert-Butyl alcohol (TBA)	43		"	50.0		86.2	25-162		28.4	30	
tert-Butylbenzene	10		"	10.0		103	77-138		3.73	30	
Tetrachloroethylene	7.4		"	10.0		73.9	82-131	Low Bias	3.46	30	
Toluene	10		"	10.0		102	80-127		2.13	30	
trans-1,2-Dichloroethylene	11		"	10.0		106	80-132		3.36	30	
trans-1,3-Dichloropropylene	10		"	10.0		101	78-131		0.198	30	
trans-1,4-dichloro-2-butene	10		"	10.0		99.9	63-141		1.98	30	
Trichloroethylene	10		"	10.0		101	82-128		2.24	30	
Trichlorofluoromethane	9.3		"	10.0		92.9	67-139		7.56	30	
Vinyl Chloride	10		"	10.0		100	58-145		6.19	30	
Surrogate: 1,2-Dichloroethane-d4	*10.4*		*"*	*10.0*		*104*	*69-130*				
Surrogate: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*81-117*				
Surrogate: p-Bromofluorobenzene	*9.98*		*"*	*10.0*		*99.8*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80893 - EPA 5030B											
Blank (BH80893-BLK1)								Prepared & Analyzed: 08/17/2018			
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80893 - EPA 5030B											
Blank (BH80893-BLK1)								Prepared & Analyzed: 08/17/2018			
n-Propylbenzene	ND	0.50	ug/L								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: 1,2-Dichloroethane-d4	*9.89*		*"*	*10.0*		*98.9*	*69-130*				
Surrogate: Toluene-d8	*9.55*		*"*	*10.0*		*95.5*	*81-117*				
Surrogate: p-Bromofluorobenzene	*9.63*		*"*	*10.0*		*96.3*	*79-122*				
LCS (BH80893-BS1)								Prepared & Analyzed: 08/17/2018			
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		104	82-126				
1,1,1-Trichloroethane	11		"	10.0		111	78-136				
1,1,2,2-Tetrachloroethane	9.1		"	10.0		91.4	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	14		"	10.0		137	54-165				
1,1,2-Trichloroethane	9.5		"	10.0		94.7	82-123				
1,1-Dichloroethane	11		"	10.0		110	82-129				
1,1-Dichloroethylene	12		"	10.0		115	68-138				
1,2,3-Trichlorobenzene	11		"	10.0		114	76-136				
1,2,3-Trichloropropane	9.1		"	10.0		91.4	77-128				
1,2,4-Trichlorobenzene	11		"	10.0		109	76-137				
1,2,4-Trimethylbenzene	9.9		"	10.0		99.4	82-132				
1,2-Dibromo-3-chloropropane	8.7		"	10.0		87.2	45-147				
1,2-Dibromoethane	9.7		"	10.0		96.9	83-124				
1,2-Dichlorobenzene	10		"	10.0		99.5	79-123				
1,2-Dichloroethane	10		"	10.0		99.8	73-132				
1,2-Dichloropropane	9.3		"	10.0		92.7	78-126				
1,3,5-Trimethylbenzene	10		"	10.0		102	80-131				
1,3-Dichlorobenzene	10		"	10.0		101	86-122				
1,4-Dichlorobenzene	10		"	10.0		101	85-124				
1,4-Dioxane	220		"	210		105	10-349				
2-Butanone	11		"	10.0		115	49-152				
2-Hexanone	9.4		"	10.0		94.1	51-146				
4-Methyl-2-pentanone	8.9		"	10.0		89.1	57-145				
Acetone	11		"	10.0		112	14-150				
Acrolein	18		"	10.0		176	10-153	High Bias			
Acrylonitrile	10		"	10.0		101	51-150				
Benzene	11		"	10.0		108	85-126				
Bromochloromethane	10		"	10.0		101	77-128				
Bromodichloromethane	9.2		"	10.0		92.4	79-128				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80893 - EPA 5030B											
LCS (BH80893-BS1)							Prepared & Analyzed: 08/17/2018				
Bromoform	10		ug/L	10.0		104	78-133				
Bromomethane	3.0		"	10.0		30.0	43-168	Low Bias			
Carbon disulfide	13		"	10.0		129	68-146				
Carbon tetrachloride	12		"	10.0		119	77-141				
Chlorobenzene	10		"	10.0		102	88-120				
Chloroethane	9.8		"	10.0		98.1	65-136				
Chloroform	10		"	10.0		102	82-128				
Chloromethane	8.2		"	10.0		82.4	43-155				
cis-1,2-Dichloroethylene	11		"	10.0		106	83-129				
cis-1,3-Dichloropropylene	9.5		"	10.0		95.0	80-131				
Cyclohexane	12		"	10.0		124	63-149				
Dibromochloromethane	10		"	10.0		99.6	80-130				
Dibromomethane	9.2		"	10.0		91.9	72-134				
Dichlorodifluoromethane	13		"	10.0		135	44-144				
Ethyl Benzene	10		"	10.0		104	80-131				
Hexachlorobutadiene	12		"	10.0		124	67-146				
Isopropylbenzene	10		"	10.0		102	76-140				
Methyl acetate	9.2		"	10.0		92.2	51-139				
Methyl tert-butyl ether (MTBE)	11		"	10.0		109	76-135				
Methylcyclohexane	11		"	10.0		115	72-143				
Methylene chloride	11		"	10.0		110	55-137				
n-Butylbenzene	10		"	10.0		103	79-132				
n-Propylbenzene	10		"	10.0		100	78-133				
o-Xylene	10		"	10.0		103	78-130				
p- & m- Xylenes	19		"	20.0		93.0	77-133				
p-Isopropyltoluene	11		"	10.0		108	81-136				
sec-Butylbenzene	11		"	10.0		109	79-137				
Styrene	10		"	10.0		100	67-132				
tert-Butyl alcohol (TBA)	56		"	50.0		112	25-162				
tert-Butylbenzene	11		"	10.0		107	77-138				
Tetrachloroethylene	8.8		"	10.0		88.4	82-131				
Toluene	10		"	10.0		101	80-127				
trans-1,2-Dichloroethylene	11		"	10.0		111	80-132				
trans-1,3-Dichloropropylene	9.3		"	10.0		93.1	78-131				
trans-1,4-dichloro-2-butene	8.7		"	10.0		87.2	63-141				
Trichloroethylene	10		"	10.0		102	82-128				
Trichlorofluoromethane	12		"	10.0		115	67-139				
Vinyl Chloride	10		"	10.0		104	58-145				
Surrogate: 1,2-Dichloroethane-d4	*9.60*		*"*	*10.0*		*96.0*	*69-130*				
Surrogate: Toluene-d8	*9.60*		*"*	*10.0*		*96.0*	*81-117*				
Surrogate: p-Bromofluorobenzene	*9.33*		*"*	*10.0*		*93.3*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80893 - EPA 5030B											
LCS Dup (BH80893-BSD1)								Prepared & Analyzed: 08/17/2018			
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		101	82-126		3.02	30	
1,1,1-Trichloroethane	11		"	10.0		106	78-136		4.59	30	
1,1,2,2-Tetrachloroethane	8.8		"	10.0		87.5	76-129		4.36	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	13		"	10.0		128	54-165		6.62	30	
1,1,2-Trichloroethane	9.1		"	10.0		91.2	82-123		3.77	30	
1,1-Dichloroethane	10		"	10.0		104	82-129		5.04	30	
1,1-Dichloroethylene	11		"	10.0		109	68-138		5.17	30	
1,2,3-Trichlorobenzene	11		"	10.0		110	76-136		3.30	30	
1,2,3-Trichloropropane	9.0		"	10.0		89.6	77-128		1.99	30	
1,2,4-Trichlorobenzene	11		"	10.0		106	76-137		3.26	30	
1,2,4-Trimethylbenzene	9.8		"	10.0		98.0	82-132		1.42	30	
1,2-Dibromo-3-chloropropane	8.3		"	10.0		82.8	45-147		5.18	30	
1,2-Dibromoethane	9.4		"	10.0		94.0	83-124		3.04	30	
1,2-Dichlorobenzene	9.9		"	10.0		99.3	79-123		0.201	30	
1,2-Dichloroethane	9.6		"	10.0		95.6	73-132		4.30	30	
1,2-Dichloropropane	8.8		"	10.0		88.0	78-126		5.20	30	
1,3,5-Trimethylbenzene	9.9		"	10.0		99.3	80-131		2.39	30	
1,3-Dichlorobenzene	9.9		"	10.0		99.1	86-122		2.10	30	
1,4-Dichlorobenzene	9.8		"	10.0		97.9	85-124		3.12	30	
1,4-Dioxane	160		"	210		77.9	10-349		29.3	30	
2-Butanone	12		"	10.0		116	49-152		0.521	30	
2-Hexanone	9.9		"	10.0		98.8	51-146		4.87	30	
4-Methyl-2-pentanone	9.0		"	10.0		89.8	57-145		0.783	30	
Acetone	12		"	10.0		117	14-150		4.98	30	
Acrolein	16		"	10.0		164	10-153	High Bias	6.71	30	
Acrylonitrile	9.2		"	10.0		92.0	51-150		9.23	30	
Benzene	10		"	10.0		103	85-126		5.22	30	
Bromochloromethane	9.5		"	10.0		95.3	77-128		5.61	30	
Bromodichloromethane	8.8		"	10.0		88.5	79-128		4.31	30	
Bromoform	10		"	10.0		101	78-133		3.12	30	
Bromomethane	3.4		"	10.0		34.4	43-168	Low Bias	13.7	30	
Carbon disulfide	12		"	10.0		120	68-146		7.38	30	
Carbon tetrachloride	11		"	10.0		112	77-141		5.28	30	
Chlorobenzene	9.8		"	10.0		98.4	88-120		3.79	30	
Chloroethane	9.5		"	10.0		95.0	65-136		3.21	30	
Chloroform	9.9		"	10.0		98.8	82-128		3.38	30	
Chloromethane	7.9		"	10.0		78.7	43-155		4.59	30	
cis-1,2-Dichloroethylene	10		"	10.0		99.7	83-129		5.94	30	
cis-1,3-Dichloropropylene	9.4		"	10.0		93.5	80-131		1.59	30	
Cyclohexane	12		"	10.0		117	63-149		6.22	30	
Dibromochloromethane	9.9		"	10.0		99.3	80-130		0.302	30	
Dibromomethane	8.9		"	10.0		88.7	72-134		3.54	30	
Dichlorodifluoromethane	13		"	10.0		129	44-144		4.78	30	
Ethyl Benzene	10		"	10.0		101	80-131		2.84	30	
Hexachlorobutadiene	12		"	10.0		119	67-146		4.02	30	
Isopropylbenzene	10		"	10.0		99.7	76-140		2.77	30	
Methyl acetate	9.1		"	10.0		90.7	51-139		1.64	30	
Methyl tert-butyl ether (MTBE)	11		"	10.0		106	76-135		3.16	30	
Methylcyclohexane	11		"	10.0		110	72-143		4.18	30	
Methylene chloride	10		"	10.0		105	55-137		5.21	30	
n-Butylbenzene	10		"	10.0		99.9	79-132		2.67	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80893 - EPA 5030B											
LCS Dup (BH80893-BSD1)							Prepared & Analyzed: 08/17/2018				
n-Propylbenzene	9.8		ug/L	10.0		98.3	78-133		2.11	30	
o-Xylene	10		"	10.0		100	78-130		3.05	30	
p- & m- Xylenes	18		"	20.0		89.9	77-133		3.39	30	
p-Isopropyltoluene	10		"	10.0		104	81-136		3.21	30	
sec-Butylbenzene	11		"	10.0		106	79-137		2.60	30	
Styrene	9.8		"	10.0		98.1	67-132		2.42	30	
tert-Butyl alcohol (TBA)	45		"	50.0		91.0	25-162		20.3	30	
tert-Butylbenzene	10		"	10.0		103	77-138		3.52	30	
Tetrachloroethylene	8.6		"	10.0		86.5	82-131		2.17	30	
Toluene	9.7		"	10.0		97.0	80-127		3.74	30	
trans-1,2-Dichloroethylene	11		"	10.0		105	80-132		5.10	30	
trans-1,3-Dichloropropylene	9.0		"	10.0		90.2	78-131		3.16	30	
trans-1,4-dichloro-2-butene	8.6		"	10.0		86.0	63-141		1.39	30	
Trichloroethylene	9.8		"	10.0		98.2	82-128		3.89	30	
Trichlorofluoromethane	11		"	10.0		109	67-139		5.81	30	
Vinyl Chloride	9.8		"	10.0		98.4	58-145		5.63	30	
Surrogate: 1,2-Dichloroethane-d4	*9.59*		*"*	*10.0*		*95.9*	*69-130*				
Surrogate: Toluene-d8	*9.60*		*"*	*10.0*		*96.0*	*81-117*				
Surrogate: p-Bromofluorobenzene	*9.50*		*"*	*10.0*		*95.0*	*79-122*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
Blank (BH80648-BLK1)								Prepared & Analyzed: 08/14/2018			
1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2,4-Trichlorobenzene	ND	5.00	"								
1,2-Dichlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
1,3-Dichlorobenzene	ND	5.00	"								
1,4-Dichlorobenzene	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acenaphthene	ND	0.0500	"								
Acenaphthylene	ND	0.0500	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	20.0	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Benzoic acid	ND	50.0	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
Blank (BH80648-BLK1)								Prepared & Analyzed: 08/14/2018			
Caprolactam	ND	5.00	ug/L								
Carbazole	ND	5.00	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachlorocyclopentadiene	ND	5.00	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Isophorone	ND	5.00	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Phenol	ND	5.00	"								
Pyrene	ND	0.0500	"								
Surrogate: 2-Fluorophenol	*25.3*		*"*	*50.0*		*50.5*	*19.7-63.1*				
Surrogate: Phenol-d5	*13.3*		*"*	*50.0*		*26.6*	*10.1-41.7*				
Surrogate: Nitrobenzene-d5	*20.4*		*"*	*25.0*		*81.7*	*50.2-113*				
Surrogate: 2-Fluorobiphenyl	*26.1*		*"*	*25.0*		*105*	*39.9-105*				
Surrogate: 2,4,6-Tribromophenol	*50.6*		*"*	*50.0*		*101*	*39.3-151*				
Surrogate: Terphenyl-d14	*27.8*		*"*	*25.0*		*111*	*30.7-106*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
Blank (BH80648-BLK2)								Prepared & Analyzed: 08/14/2018			
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								
LCS (BH80648-BS1)								Prepared & Analyzed: 08/14/2018			
1,1-Biphenyl	21.8	5.00	ug/L	25.0		87.2	21-102				
1,2,4,5-Tetrachlorobenzene	22.7	5.00	"	25.0		90.8	28-105				
1,2,4-Trichlorobenzene	24.0	5.00	"	25.0		96.2	35-91	High Bias			
1,2-Dichlorobenzene	21.1	5.00	"	25.0		84.6	42-85				
1,2-Diphenylhydrazine (as Azobenzene)	21.0	5.00	"	25.0		84.0	16-137				
1,3-Dichlorobenzene	20.0	5.00	"	25.0		79.8	45-80				
1,4-Dichlorobenzene	17.9	5.00	"	25.0		71.6	42-82				
2,3,4,6-Tetrachlorophenol	48.3	5.00	"	25.0		193	30-130	High Bias			
2,4,5-Trichlorophenol	25.7	5.00	"	25.0		103	36-112				
2,4,6-Trichlorophenol	25.2	5.00	"	25.0		101	41-107				
2,4-Dichlorophenol	27.4	5.00	"	25.0		110	43-92	High Bias			
2,4-Dimethylphenol	23.2	5.00	"	25.0		92.8	25-92	High Bias			
2,4-Dinitrophenol	35.4	5.00	"	25.0		141	10-149				
2,4-Dinitrotoluene	24.3	5.00	"	25.0		97.0	41-114				
2,6-Dinitrotoluene	24.1	5.00	"	25.0		96.3	49-106				
2-Chloronaphthalene	22.0	5.00	"	25.0		88.0	40-96				
2-Chlorophenol	20.0	5.00	"	25.0		80.1	35-84				
2-Methylnaphthalene	23.6	5.00	"	25.0		94.3	33-101				
2-Methylphenol	16.9	5.00	"	25.0		67.5	10-90				
2-Nitroaniline	20.2	5.00	"	25.0		80.7	31-122				
2-Nitrophenol	24.2	5.00	"	25.0		96.9	37-97				
3- & 4-Methylphenols	14.0	5.00	"	25.0		56.0	10-101				
3,3-Dichlorobenzidine	23.6	5.00	"	25.0		94.3	25-155				
3-Nitroaniline	17.5	5.00	"	25.0		70.0	29-128				
4,6-Dinitro-2-methylphenol	29.9	5.00	"	25.0		119	10-135				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
LCS (BH80648-BS1)							Prepared & Analyzed: 08/14/2018				
4-Bromophenyl phenyl ether	23.4	5.00	ug/L	25.0		93.5	38-116				
4-Chloro-3-methylphenol	22.4	5.00	"	25.0		89.7	28-101				
4-Chloroaniline	13.9	5.00	"	25.0		55.8	10-154				
4-Chlorophenyl phenyl ether	23.1	5.00	"	25.0		92.3	34-112				
4-Nitroaniline	18.2	5.00	"	25.0		72.8	15-143				
4-Nitrophenol	10.2	5.00	"	25.0		40.8	10-112				
Acenaphthene	19.5	0.0500	"	25.0		78.1	24-114				
Acenaphthylene	20.0	0.0500	"	25.0		80.0	26-112				
Acetophenone	20.0	5.00	"	25.0		79.9	47-92				
Aniline	7.41	5.00	"	25.0		29.6	10-107				
Anthracene	20.3	0.0500	"	25.0		81.1	35-114				
Atrazine	25.4	0.500	"	25.0		101	43-101				
Benzaldehyde	21.6	5.00	"	25.0		86.4	17-117				
Benzo(a)anthracene	23.9	0.0500	"	25.0		95.7	38-127				
Benzo(a)pyrene	24.1	0.0500	"	25.0		96.5	30-146				
Benzo(b)fluoranthene	24.7	0.0500	"	25.0		98.7	36-145				
Benzo(g,h,i)perylene	20.0	0.0500	"	25.0		80.1	10-163				
Benzo(k)fluoranthene	22.6	0.0500	"	25.0		90.4	16-149				
Benzoic acid	ND	50.0	"	25.4			30-130	Low Bias			
Benzyl alcohol	15.5	5.00	"	25.0		62.1	18-75				
Benzyl butyl phthalate	23.5	5.00	"	25.0		94.0	28-129				
Bis(2-chloroethoxy)methane	23.3	5.00	"	25.0		93.4	27-112				
Bis(2-chloroethyl)ether	18.1	5.00	"	25.0		72.6	24-114				
Bis(2-chloroisopropyl)ether	20.3	5.00	"	25.0		81.1	21-124				
Bis(2-ethylhexyl)phthalate	23.3	0.500	"	25.0		93.2	10-171				
Caprolactam	4.53	5.00	"	25.0		18.1	10-29				
Carbazole	24.4	5.00	"	25.0		97.5	49-116				
Chrysene	21.7	0.0500	"	25.0		86.8	33-120				
Dibenzo(a,h)anthracene	21.4	0.0500	"	25.0		85.5	10-149				
Dibenzofuran	22.3	5.00	"	25.0		89.0	42-105				
Diethyl phthalate	23.6	5.00	"	25.0		94.3	38-112				
Dimethyl phthalate	23.1	5.00	"	25.0		92.4	49-106				
Di-n-butyl phthalate	20.4	5.00	"	25.0		81.7	36-110				
Di-n-octyl phthalate	23.9	5.00	"	25.0		95.6	12-149				
Fluoranthene	20.8	0.0500	"	25.0		83.0	33-126				
Fluorene	20.2	0.0500	"	25.0		80.7	28-117				
Hexachlorobenzene	19.4	0.0200	"	25.0		77.8	27-120				
Hexachlorobutadiene	23.5	0.500	"	25.0		93.9	25-106				
Hexachlorocyclopentadiene	12.8	5.00	"	25.0		51.2	10-99				
Hexachloroethane	17.5	0.500	"	25.0		70.0	33-84				
Indeno(1,2,3-cd)pyrene	21.3	0.0500	"	25.0		85.2	10-150				
Isophorone	22.2	5.00	"	25.0		88.6	29-115				
Naphthalene	19.6	0.0500	"	25.0		78.3	30-99				
Nitrobenzene	21.5	0.250	"	25.0		86.2	32-113				
N-Nitrosodimethylamine	11.1	0.500	"	25.0		44.2	10-63				
N-nitroso-di-n-propylamine	20.5	5.00	"	25.0		81.9	36-118				
N-Nitrosodiphenylamine	27.0	5.00	"	25.0		108	27-145				
Pentachlorophenol	25.3	0.250	"	25.0		101	19-127				
Phenanthrene	20.4	0.0500	"	25.0		81.4	31-112				
Phenol	8.00	5.00	"	25.0		32.0	10-37				
Pyrene	23.0	0.0500	"	25.0		92.0	42-125				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
LCS (BH80648-BS1)							Prepared & Analyzed: 08/14/2018				
Surrogate: 2-Fluorophenol	*29.4*		*ug/L*	*50.0*		*58.7*	*19.7-63.1*				
Surrogate: Phenol-d5	*15.2*		*"*	*50.0*		*30.5*	*10.1-41.7*				
Surrogate: Nitrobenzene-d5	*21.8*		*"*	*25.0*		*87.3*	*50.2-113*				
Surrogate: 2-Fluorobiphenyl	*26.1*		*"*	*25.0*		*104*	*39.9-105*				
Surrogate: 2,4,6-Tribromophenol	*60.2*		*"*	*50.0*		*120*	*39.3-151*				
Surrogate: Terphenyl-d14	*29.7*		*"*	*25.0*		*119*	*30.7-106*				
LCS (BH80648-BS2)							Prepared & Analyzed: 08/14/2018				
Acenaphthene	0.780	0.0500	ug/L	1.00		78.0	24-114				
Acenaphthylene	0.810	0.0500	"	1.00		81.0	26-112				
Anthracene	0.850	0.0500	"	1.00		85.0	35-114				
Atrazine	ND	0.500	"				43-101				
Benzo(a)anthracene	0.900	0.0500	"	1.00		90.0	38-127				
Benzo(a)pyrene	0.900	0.0500	"	1.00		90.0	30-146				
Benzo(b)fluoranthene	0.910	0.0500	"	1.00		91.0	36-145				
Benzo(g,h,i)perylene	0.970	0.0500	"	1.00		97.0	10-163				
Benzo(k)fluoranthene	0.900	0.0500	"	1.00		90.0	16-149				
Bis(2-ethylhexyl)phthalate	0.710	0.500	"	1.00		71.0	10-171				
Chrysene	0.820	0.0500	"	1.00		82.0	33-120				
Dibenzo(a,h)anthracene	0.960	0.0500	"	1.00		96.0	10-149				
Fluoranthene	0.980	0.0500	"	1.00		98.0	33-126				
Fluorene	0.890	0.0500	"	1.00		89.0	28-117				
Hexachlorobenzene	1.03	0.0200	"	1.00		103	27-120				
Hexachlorobutadiene	0.800	0.500	"	1.00		80.0	25-106				
Hexachloroethane	0.600	0.500	"	1.00		60.0	33-84				
Indeno(1,2,3-cd)pyrene	0.960	0.0500	"	1.00		96.0	10-150				
Naphthalene	0.800	0.0500	"	1.00		80.0	30-99				
Nitrobenzene	0.870	0.250	"	1.00		87.0	32-113				
N-Nitrosodimethylamine	ND	0.500	"	1.00			10-63	Low Bias			
Pentachlorophenol	1.17	0.250	"	1.00		117	19-127				
Phenanthrene	0.900	0.0500	"	1.00		90.0	31-112				
Pyrene	0.870	0.0500	"	1.00		87.0	42-125				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
LCS Dup (BH80648-BSD1)								Prepared & Analyzed: 08/14/2018			
1,1-Biphenyl	21.6	5.00	ug/L	25.0		86.4	21-102		0.922	20	
1,2,4,5-Tetrachlorobenzene	26.6	5.00	"	25.0		106	28-105	High Bias	15.6	20	
1,2,4-Trichlorobenzene	26.6	5.00	"	25.0		107	35-91	High Bias	10.3	20	
1,2-Dichlorobenzene	20.6	5.00	"	25.0		82.3	42-85		2.73	20	
1,2-Diphenylhydrazine (as Azobenzene)	18.0	5.00	"	25.0		71.8	16-137		15.6	20	
1,3-Dichlorobenzene	22.4	5.00	"	25.0		89.4	45-80	High Bias	11.3	20	
1,4-Dichlorobenzene	18.2	5.00	"	25.0		72.9	42-82		1.72	20	
2,3,4,6-Tetrachlorophenol	54.2	5.00	"	25.0		217	30-130	High Bias	11.6	20	
2,4,5-Trichlorophenol	25.2	5.00	"	25.0		101	36-112		1.93	20	
2,4,6-Trichlorophenol	26.8	5.00	"	25.0		107	41-107		6.08	20	
2,4-Dichlorophenol	27.9	5.00	"	25.0		112	43-92	High Bias	1.77	20	
2,4-Dimethylphenol	21.4	5.00	"	25.0		85.8	25-92		7.88	20	
2,4-Dinitrophenol	39.8	5.00	"	25.0		159	10-149	High Bias	11.8	20	
2,4-Dinitrotoluene	27.3	5.00	"	25.0		109	41-114		11.9	20	
2,6-Dinitrotoluene	25.7	5.00	"	25.0		103	49-106		6.35	20	
2-Chloronaphthalene	22.1	5.00	"	25.0		88.3	40-96		0.363	20	
2-Chlorophenol	20.4	5.00	"	25.0		81.6	35-84		1.88	20	
2-Methylnaphthalene	22.4	5.00	"	25.0		89.8	33-101		4.91	20	
2-Methylphenol	15.5	5.00	"	25.0		62.1	10-90		8.34	20	
2-Nitroaniline	22.8	5.00	"	25.0		91.1	31-122		12.1	20	
2-Nitrophenol	24.6	5.00	"	25.0		98.5	37-97	High Bias	1.68	20	
3- & 4-Methylphenols	14.4	5.00	"	25.0		57.6	10-101		2.82	20	
3,3-Dichlorobenzidine	23.0	5.00	"	25.0		92.2	25-155		2.23	20	
3-Nitroaniline	17.9	5.00	"	25.0		71.6	29-128		2.37	20	
4,6-Dinitro-2-methylphenol	31.0	5.00	"	25.0		124	10-135		3.68	20	
4-Bromophenyl phenyl ether	23.8	5.00	"	25.0		95.3	38-116		1.86	20	
4-Chloro-3-methylphenol	25.3	5.00	"	25.0		101	28-101		11.9	20	
4-Chloroaniline	14.1	5.00	"	25.0		56.4	10-154		1.07	20	
4-Chlorophenyl phenyl ether	26.5	5.00	"	25.0		106	34-112		13.8	20	
4-Nitroaniline	18.3	5.00	"	25.0		73.4	15-143		0.821	20	
4-Nitrophenol	10.8	5.00	"	25.0		43.2	10-112		5.71	20	
Acenaphthene	19.8	0.0500	"	25.0		79.0	24-114		1.22	20	
Acenaphthylene	21.1	0.0500	"	25.0		84.6	26-112		5.49	20	
Acetophenone	21.0	5.00	"	25.0		84.0	47-92		5.03	20	
Aniline	8.65	5.00	"	25.0		34.6	10-107		15.4	20	
Anthracene	20.8	0.0500	"	25.0		83.1	35-114		2.48	20	
Atrazine	25.0	0.500	"	25.0		99.9	43-101		1.47	20	
Benzaldehyde	24.3	5.00	"	25.0		97.2	17-117		11.7	20	
Benzo(a)anthracene	22.3	0.0500	"	25.0		89.0	38-127		7.19	20	
Benzo(a)pyrene	23.3	0.0500	"	25.0		93.0	30-146		3.63	20	
Benzo(b)fluoranthene	24.1	0.0500	"	25.0		96.4	36-145		2.38	20	
Benzo(g,h,i)perylene	22.4	0.0500	"	25.0		89.6	10-163		11.3	20	
Benzo(k)fluoranthene	23.9	0.0500	"	25.0		95.6	16-149		5.68	20	
Benzoic acid	ND	50.0	"	25.4			30-130	Low Bias		20	
Benzyl alcohol	15.3	5.00	"	25.0		61.2	18-75		1.56	20	
Benzyl butyl phthalate	22.6	5.00	"	25.0		90.4	28-129		3.86	20	
Bis(2-chloroethoxy)methane	24.2	5.00	"	25.0		96.6	27-112		3.41	20	
Bis(2-chloroethyl)ether	20.6	5.00	"	25.0		82.2	24-114		12.5	20	
Bis(2-chloroisopropyl)ether	19.1	5.00	"	25.0		76.5	21-124		5.84	20	
Bis(2-ethylhexyl)phthalate	22.8	0.500	"	25.0		91.1	10-171		2.30	20	
Caprolactam	4.91	5.00	"	25.0		19.6	10-29		8.05	20	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
LCS Dup (BH80648-BSD1)							Prepared & Analyzed: 08/14/2018				
Carbazole	25.6	5.00	ug/L	25.0		102	49-116		4.96	20	
Chrysene	20.2	0.0500	"	25.0		81.0	33-120		6.91	20	
Dibenzo(a,h)anthracene	23.1	0.0500	"	25.0		92.4	10-149		7.78	20	
Dibenzofuran	23.6	5.00	"	25.0		94.2	42-105		5.63	20	
Diethyl phthalate	25.3	5.00	"	25.0		101	38-112		6.92	20	
Dimethyl phthalate	24.5	5.00	"	25.0		97.8	49-106		5.72	20	
Di-n-butyl phthalate	22.3	5.00	"	25.0		89.4	36-110		8.98	20	
Di-n-octyl phthalate	22.0	5.00	"	25.0		88.0	12-149		8.28	20	
Fluoranthene	23.8	0.0500	"	25.0		95.3	33-126		13.8	20	
Fluorene	23.6	0.0500	"	25.0		94.3	28-117		15.6	20	
Hexachlorobenzene	21.0	0.0200	"	25.0		84.0	27-120		7.62	20	
Hexachlorobutadiene	25.0	0.500	"	25.0		100	25-106		6.31	20	
Hexachlorocyclopentadiene	14.2	5.00	"	25.0		56.9	10-99		10.5	20	
Hexachloroethane	18.8	0.500	"	25.0		75.1	33-84		7.11	20	
Indeno(1,2,3-cd)pyrene	23.7	0.0500	"	25.0		94.8	10-150		10.7	20	
Isophorone	23.1	5.00	"	25.0		92.2	29-115		3.98	20	
Naphthalene	19.0	0.0500	"	25.0		76.0	30-99		2.95	20	
Nitrobenzene	20.6	0.250	"	25.0		82.4	32-113		4.51	20	
N-Nitrosodimethylamine	12.4	0.500	"	25.0		49.6	10-63		11.3	20	
N-nitroso-di-n-propylamine	20.9	5.00	"	25.0		83.6	36-118		2.08	20	
N-Nitrosodiphenylamine	26.7	5.00	"	25.0		107	27-145		0.968	20	
Pentachlorophenol	27.3	0.250	"	25.0		109	19-127		7.53	20	
Phenanthrene	22.4	0.0500	"	25.0		89.8	31-112		9.77	20	
Phenol	7.61	5.00	"	25.0		30.4	10-37		5.00	20	
Pyrene	21.5	0.0500	"	25.0		86.0	42-125		6.83	20	
Surrogate: 2-Fluorophenol	*29.4*		*"*	*50.0*		*58.9*	*19.7-63.1*				
Surrogate: Phenol-d5	*15.9*		*"*	*50.0*		*31.8*	*10.1-41.7*				
Surrogate: Nitrobenzene-d5	*23.8*		*"*	*25.0*		*95.0*	*50.2-113*				
Surrogate: 2-Fluorobiphenyl	*26.1*		*"*	*25.0*		*104*	*39.9-105*				
Surrogate: 2,4,6-Tribromophenol	*60.7*		*"*	*50.0*		*121*	*39.3-151*				
Surrogate: Terphenyl-d14	*29.4*		*"*	*25.0*		*118*	*30.7-106*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80646 - EPA SW846-3510C Low Level											
Blank (BH80646-BLK1)								Prepared: 08/14/2018 Analyzed: 08/15/2018			
4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
alpha-Chlordane	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
Chlordane, total	ND	0.0200	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
gamma-Chlordane	ND	0.0100	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
Surrogate: Decachlorobiphenyl	*0.111*		*"*	*0.201*		*55.4*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.105*		*"*	*0.202*		*51.9*	*30-150*				
LCS (BH80646-BS1)								Prepared: 08/14/2018 Analyzed: 08/15/2018			
4,4'-DDD	0.119	0.00400	ug/L	0.100		119	40-140				
4,4'-DDE	0.105	0.00400	"	0.100		105	40-140				
4,4'-DDT	0.119	0.00400	"	0.100		119	40-140				
Aldrin	0.105	0.00400	"	0.100		105	40-140				
alpha-BHC	0.115	0.00400	"	0.100		115	40-140				
alpha-Chlordane	0.103	0.00400	"	0.100		103	40-140				
beta-BHC	0.0985	0.00400	"	0.100		98.5	40-140				
delta-BHC	0.119	0.00400	"	0.100		119	40-140				
Dieldrin	0.0923	0.00200	"	0.100		92.3	40-140				
Endosulfan I	0.105	0.00400	"	0.100		105	40-140				
Endosulfan II	0.112	0.00400	"	0.100		112	40-140				
Endosulfan sulfate	0.110	0.00400	"	0.100		110	40-140				
Endrin	0.114	0.00400	"	0.100		114	40-140				
Endrin aldehyde	0.110	0.0100	"	0.100		110	40-140				
Endrin ketone	0.109	0.0100	"	0.100		109	40-140				
gamma-BHC (Lindane)	0.115	0.00400	"	0.100		115	40-140				
gamma-Chlordane	0.102	0.0100	"	0.100		102	40-140				
Heptachlor	0.0987	0.00400	"	0.100		98.7	40-140				
Heptachlor epoxide	0.0973	0.00400	"	0.100		97.3	40-140				
Methoxychlor	0.105	0.00400	"	0.100		105	40-140				
Surrogate: Decachlorobiphenyl	*0.182*		*"*	*0.201*		*90.4*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.174*		*"*	*0.202*		*86.3*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch Y8H1603 - BH80158											
Performance Mix (Y8H1603-PEM1)							Prepared & Analyzed: 08/15/2018				
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.571		"	0.00			0-200				
4,4'-DDT	277		"	200		138	0-200				
Endrin	167		"	100		167	0-200				
Endrin aldehyde	2.72		"	0.00			0-200				
Endrin ketone	8.53		"	0.00			0-200				
Performance Mix (Y8H1603-PEM2)							Prepared & Analyzed: 08/15/2018				
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.496		"	0.00			0-200				
4,4'-DDT	316		"	200		158	0-200				
Endrin	185		"	100		185	0-200				
Endrin aldehyde	1.70		"	0.00			0-200				
Endrin ketone	7.15		"	0.00			0-200				
Batch Y8H2015 - BH80158											
Performance Mix (Y8H2015-PEM1)							Prepared & Analyzed: 08/17/2018				
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.766		"	0.00			0-200				
4,4'-DDT	311		"	200		156	0-200				
Endrin	189		"	100		189	0-200				
Endrin aldehyde	2.18		"	0.00			0-200				
Endrin ketone	9.22		"	0.00			0-200				
Performance Mix (Y8H2015-PEM2)							Prepared & Analyzed: 08/17/2018				
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.867		"	0.00			0-200				
4,4'-DDT	288		"	200		144	0-200				
Endrin	193		"	100		193	0-200				
Endrin aldehyde	2.52		"	0.00			0-200				
Endrin ketone	10.7		"	0.00			0-200				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch Y8H2015 - BH80158											
Performance Mix (Y8H2015-PEM3)							Prepared: 08/17/2018 Analyzed: 08/18/2018				
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.939		"	0.00			0-200				
4,4'-DDT	292		"	200		146	0-200				
Endrin	200		"	100		200	0-200				
Endrin aldehyde	2.87		"	0.00			0-200				
Endrin ketone	10.4		"	0.00			0-200				
Batch Y8H2101 - BH80158											
Performance Mix (Y8H2101-PEM1)							Prepared & Analyzed: 08/20/2018				
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.696		"	0.00			0-200				
4,4'-DDT	209		"	200		104	0-200				
Endrin	152		"	100		152	0-200				
Endrin aldehyde	4.18		"	0.00			0-200				
Endrin ketone	11.0		"	0.00			0-200				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80646 - EPA SW846-3510C Low Level											
Blank (BH80646-BLK2)								Prepared & Analyzed: 08/14/2018			
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.202*		*"*	*0.202*		*100*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.173*		*"*	*0.201*		*86.1*	*30-120*				
LCS (BH80646-BS2)								Prepared & Analyzed: 08/14/2018			
Aroclor 1016	1.11	0.0500	ug/L	1.00		111	40-120				
Aroclor 1260	1.07	0.0500	"	1.00		107	40-120				
Surrogate: Tetrachloro-m-xylene	*0.202*		*"*	*0.202*		*100*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.167*		*"*	*0.201*		*83.1*	*30-120*				
LCS Dup (BH80646-BSD2)								Prepared: 08/14/2018 Analyzed: 08/15/2018			
Aroclor 1016	1.06	0.0500	ug/L	1.00		106	40-120		4.82	30	
Aroclor 1260	1.24	0.0500	"	1.00		124	40-120	High Bias	14.4	30	
Surrogate: Tetrachloro-m-xylene	*0.222*		*"*	*0.202*		*110*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.231*		*"*	*0.201*		*115*	*30-120*				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80751 - EPA 3015A											
Blank (BH80751-BLK1)								Prepared: 08/15/2018 Analyzed: 08/20/2018			
Aluminum	ND	10.0	ug/L								
Antimony	ND	1.00	"								
Arsenic	ND	1.00	"								
Barium	ND	1.00	"								
Beryllium	ND	0.300	"								
Cadmium	ND	0.500	"								
Chromium	ND	1.00	"								
Cobalt	ND	1.00	"								
Copper	ND	1.00	"								
Iron	74.4	10.0	"								
Lead	ND	1.00	"								
Manganese	ND	1.00	"								
Nickel	ND	1.00	"								
Selenium	ND	1.00	"								
Silver	ND	1.00	"								
Thallium	ND	1.00	"								
Vanadium	ND	1.00	"								
Zinc	ND	1.00	"								
LCS (BH80751-BS1)								Prepared: 08/15/2018 Analyzed: 08/20/2018			
Aluminum	2260		ug/L	2500		90.3	80-120				
Antimony	49.8		"	50.0		99.6	80-120				
Arsenic	46.1		"	50.0		92.2	80-120				
Barium	45.7		"	50.0		91.3	80-120				
Beryllium	45.9		"	50.0		91.9	80-120				
Cadmium	47.5		"	50.0		95.1	80-120				
Chromium	46.1		"	50.0		92.2	80-120				
Cobalt	45.0		"	50.0		90.0	80-120				
Copper	46.8		"	50.0		93.7	80-120				
Iron	2370		"	2500		94.7	80-120				
Lead	49.1		"	50.0		98.3	80-120				
Manganese	44.5		"	50.0		88.9	80-120				
Nickel	47.0		"	50.0		94.0	80-120				
Selenium	40.3		"	50.0		80.7	80-120				
Silver	48.1		"	50.0		96.2	80-120				
Thallium	47.4		"	50.0		94.9	80-120				
Vanadium	44.6		"	50.0		89.2	80-120				
Zinc	45.5		"	50.0		90.9	80-120				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80752 - EPA 3015A											
Blank (BH80752-BLK1)								Prepared: 08/15/2018 Analyzed: 08/20/2018			
Aluminum - Dissolved	ND	10.0	ug/L								
Antimony - Dissolved	ND	1.00	"								
Arsenic - Dissolved	ND	1.00	"								
Barium - Dissolved	ND	1.00	"								
Beryllium - Dissolved	ND	0.300	"								
Cadmium - Dissolved	ND	0.500	"								
Chromium - Dissolved	ND	1.00	"								
Cobalt - Dissolved	ND	1.00	"								
Copper - Dissolved	ND	1.00	"								
Iron - Dissolved	ND	10.0	"								
Lead - Dissolved	ND	1.00	"								
Manganese - Dissolved	ND	1.00	"								
Nickel - Dissolved	ND	1.00	"								
Selenium - Dissolved	ND	1.00	"								
Silver - Dissolved	ND	1.00	"								
Thallium - Dissolved	ND	1.00	"								
Vanadium - Dissolved	ND	1.00	"								
Zinc - Dissolved	ND	1.00	"								
LCS (BH80752-BS1)								Prepared: 08/15/2018 Analyzed: 08/20/2018			
Aluminum - Dissolved	2080		ug/L	2500		83.0	80-120				
Antimony - Dissolved	48.0		"	50.0		96.0	80-120				
Arsenic - Dissolved	43.8		"	50.0		87.6	80-120				
Barium - Dissolved	46.2		"	50.0		92.5	80-120				
Beryllium - Dissolved	45.3		"	50.0		90.7	80-120				
Cadmium - Dissolved	45.1		"	50.0		90.1	80-120				
Chromium - Dissolved	43.7		"	50.0		87.5	80-120				
Cobalt - Dissolved	42.2		"	50.0		84.5	80-120				
Copper - Dissolved	44.4		"	50.0		88.7	80-120				
Iron - Dissolved	2310		"	2500		92.5	80-120				
Lead - Dissolved	48.7		"	50.0		97.3	80-120				
Manganese - Dissolved	44.7		"	50.0		89.5	80-120				
Nickel - Dissolved	44.8		"	50.0		89.6	80-120				
Selenium - Dissolved	43.8		"	50.0		87.6	80-120				
Silver - Dissolved	46.3		"	50.0		92.5	80-120				
Thallium - Dissolved	47.5		"	50.0		95.0	80-120				
Vanadium - Dissolved	41.0		"	50.0		82.1	80-120				
Zinc - Dissolved	44.4		"	50.0		88.8	80-120				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80937 - EPA 7473 water											
Blank (BH80937-BLK1)								Prepared & Analyzed: 08/20/2018			
Mercury	ND	0.20	ug/L								
Reference (BH80937-SRM1)								Prepared & Analyzed: 08/20/2018			
Mercury	0.0103		mg/L	0.0100		103	70-130				
Batch BH80938 - EPA 7473 water											
Blank (BH80938-BLK1)								Prepared & Analyzed: 08/20/2018			
Mercury - Dissolved	ND	0.0002000	mg/L								
Reference (BH80938-SRM1)								Prepared & Analyzed: 08/20/2018			
Mercury - Dissolved	0.009593		mg/L	0.0100		95.9	70-130				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18H0570-01	SB-2 (GW)	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18H0570-02	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

SCAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%).
S-08	The recovery of this surrogate was outside of QC limits.
QR-04	The RPD exceeded control limits for the LCS/LCSD QC.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
QC-LCS	LCS/LCS Dup recovery was above laboratory control limits. Sample does not contain any target compounds; therefore sample results are acceptable.
M-MBLk	Analyte was detected in the batch method blank above the Reporting Limit.
M-ISO	The ICP/MS result reported for this element used an alternate isotope due to molecular interferences encountered with the sample matrix.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

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

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
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132-02 89th Ave, Queens, NY 11418
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YORK ANALYTICAL LABORATORIES INC

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 18H0570

Page 1 of 1

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: GEI Consultants	Company: GEI Consultants	Company:		RUSH - Next Day
Address: 110 Walt Whitman Road Huntington Station, NY	Address: " "	Address: → same		RUSH - Two Day
Phone.: 631-760-9300	Phone.: " "	Phone.:	YOUR Project Name: 580 Gerard Ave	RUSH - Three Day
Contact: William J. Fitchett	Contact: Wendy Monterosso	Contact:		RUSH - Four Day
E-mail: wfitchett@geiconsultants.com	E-mail: wmonterosso@geiconsultants.com	E-mail:	YOUR PO#:	Standard (5-7 Day) ✓

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

Samples Collected by: (print your name above and sign below)
William J. Fitchett

Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
S - soil / solid	New York ✓	Summary Report	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)
GW - groundwater	New Jersey	QA Report	CT RCP DQA/DUE	EQuIS (Standard)	
DW - drinking water	Connecticut	NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EQuIS	
WW - wastewater	Pennsylvania	NY ASP B Package		NJDEP SRP HazSite	
O - Oil ⋮ Other	Other		NJDKQP	Other:	

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB-2 (GW)	GW	8/10/18 1715	TCL VOCs (8260) TCL SVOCs (8270), TAL Metals	3 ambers, 2 plastics
			PCBs (8082), Pesticides (8081)	3 voa vials
Trip Blank		8/10/18	TCL VOCs	2 voa vials

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: _____

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
WJF GEI	8/13/18 1025AM	KBach	8/13/18 1025AM	KBach	8/13/18 1645
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				TC Pabich	8/13/18 1645

Temp. Received at Lab: 1.6 Degrees C

Technical Report

prepared for:

GEI Consultants, Inc
110 Walt Whitman Road, Suite 204
Huntington Station NY, 11746
Attention: Wendy Monterosso

Report Date: 08/21/2018
Client Project ID: 580 Gerard Ave
York Project (SDG) No.: 18H0567

Report Date: 08/21/2018
Client Project ID: 580 Gerard Ave
York Project (SDG) No.: 18H0567

GEI Consultants, Inc
110 Walt Whitman Road, Suite 204
Huntington Station NY, 11746
Attention: Wendy Monterosso

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 13, 2018 and listed below. The project was identified as your project: **580 Gerard Ave**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
18H0567-01	SB-5 (GW)	Water	08/10/2018	08/13/2018

General Notes for York Project (SDG) No.: 18H0567

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: **Date:** 08/21/2018

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **SB-5 (GW)** **York Sample ID:** **18H0567-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0567	580 Gerard Ave	Water	August 10, 2018 5:45 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
95-63-6	**1,2,4-Trimethylbenzene**	**3.0**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
108-67-8	**1,3,5-Trimethylbenzene**	**1.2**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	200	1	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS

Sample Information

Client Sample ID: **SB-5 (GW)** **York Sample ID:** **18H0567-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0567	580 Gerard Ave	Water	August 10, 2018 5:45 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
75-27-4	**Bromodichloromethane**	**0.95**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
67-66-3	**Chloroform**	**16**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS

Sample Information

Client Sample ID: **SB-5 (GW)** **York Sample ID:** **18H0567-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0567	580 Gerard Ave	Water	August 10, 2018 5:45 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
108-87-2	**Methylcyclohexane**	**0.47**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
103-65-1	**n-Propylbenzene**	**0.40**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	2.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 07:30	08/16/2018 17:09	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 07:30	08/16/2018 17:09	SS

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: **SB-5 (GW)** **York Sample ID:** **18H0567-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0567	580 Gerard Ave	Water	August 10, 2018 5:45 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*108 %*			*69-130*						
2037-26-5	*Surrogate: Toluene-d8*	*101 %*			*81-117*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*105 %*			*79-122*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:** EXT-D

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
95-57-8	2-Chlorophenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH

Sample Information

Client Sample ID: **SB-5 (GW)** **York Sample ID:** **18H0567-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0567	580 Gerard Ave	Water	August 10, 2018 5:45 pm	08/13/2018

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

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
88-74-4	2-Nitroaniline	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
88-75-5	2-Nitrophenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
99-09-2	3-Nitroaniline	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
106-47-8	4-Chloroaniline	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
100-01-6	4-Nitroaniline	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
100-02-7	4-Nitrophenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
83-32-9	Acenaphthene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
98-86-2	Acetophenone	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
62-53-3	Aniline	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
120-12-7	Anthracene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
1912-24-9	Atrazine	ND		ug/L	0.606	0.606	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
100-52-7	Benzaldehyde	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
92-87-5	Benzidine	ND		ug/L	12.1	24.2	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR

Sample Information

Client Sample ID: **SB-5 (GW)** **York Sample ID:** **18H0567-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0567	580 Gerard Ave	Water	August 10, 2018 5:45 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: **EXT-D**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
65-85-0	Benzoic acid	ND		ug/L	30.3	60.6	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
100-51-6	Benzyl alcohol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.885**		ug/L	0.606	0.606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
105-60-2	Caprolactam	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
86-74-8	Carbazole	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
218-01-9	Chrysene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
132-64-9	Dibenzofuran	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
84-66-2	Diethyl phthalate	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
131-11-3	Dimethyl phthalate	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
206-44-0	Fluoranthene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
86-73-7	Fluorene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0242	0.0242	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	0.606	0.606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR

Sample Information

Client Sample ID: **SB-5 (GW)** **York Sample ID:** **18H0567-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0567	580 Gerard Ave	Water	August 10, 2018 5:45 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:** EXT-D

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
67-72-1	Hexachloroethane	ND		ug/L	0.606	0.606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
78-59-1	Isophorone	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
91-20-3	**Naphthalene**	**0.145**		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
98-95-3	Nitrobenzene	ND		ug/L	0.303	0.303	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.606	0.606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.303	0.303	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
85-01-8	**Phenanthrene**	**0.0848**		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
108-95-2	Phenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
129-00-0	Pyrene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*25.6 %*		*19.7-63.1*
4165-62-2	*Surrogate: Phenol-d5*	*14.6 %*		*10.1-41.7*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*46.6 %*	S-08	*50.2-113*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*63.7 %*		*39.9-105*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*79.4 %*		*39.3-151*
1718-51-0	*Surrogate: Terphenyl-d14*	*81.6 %*		*30.7-106*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

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

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
72-55-9	4,4'-DDE	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
50-29-3	4,4'-DDT	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA

Sample Information

Client Sample ID: **SB-5 (GW)** **York Sample ID:** **18H0567-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0567	580 Gerard Ave	Water	August 10, 2018 5:45 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

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

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
319-84-6	alpha-BHC	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
5103-71-9	alpha-Chlordane	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
319-85-7	beta-BHC	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
57-74-9	Chlordane, total	ND		ug/L	0.0242	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
319-86-8	delta-BHC	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
60-57-1	Dieldrin	ND		ug/L	0.00242	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
959-98-8	Endosulfan I	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
33213-65-9	Endosulfan II	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
72-20-8	Endrin	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
7421-93-4	Endrin aldehyde	ND		ug/L	0.0121	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
53494-70-5	Endrin ketone	ND		ug/L	0.0121	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
5566-34-7	gamma-Chlordane	ND		ug/L	0.0121	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
76-44-8	Heptachlor	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
72-43-5	Methoxychlor	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
8001-35-2	Toxaphene	ND		ug/L	0.121	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*56.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*72.3 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

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

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

Sample Information

Client Sample ID: **SB-5 (GW)** **York Sample ID:** **18H0567-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0567	580 Gerard Ave	Water	August 10, 2018 5:45 pm	08/13/2018

12674-11-2	Aroclor 1016	ND	ug/L	0.0606	1	EPA 8082A Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP	08/14/2018 08:21	08/16/2018 12:26	LAB
11104-28-2	Aroclor 1221	ND	ug/L	0.0606	1	EPA 8082A Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP	08/14/2018 08:21	08/16/2018 12:26	LAB
11141-16-5	Aroclor 1232	ND	ug/L	0.0606	1	EPA 8082A Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP	08/14/2018 08:21	08/16/2018 12:26	LAB
53469-21-9	Aroclor 1242	ND	ug/L	0.0606	1	EPA 8082A Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP	08/14/2018 08:21	08/16/2018 12:26	LAB
12672-29-6	Aroclor 1248	ND	ug/L	0.0606	1	EPA 8082A Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP	08/14/2018 08:21	08/16/2018 12:26	LAB
11097-69-1	Aroclor 1254	ND	ug/L	0.0606	1	EPA 8082A Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP	08/14/2018 08:21	08/16/2018 12:26	LAB
11096-82-5	**Aroclor 1260**	**0.0836**	ug/L	0.0606	1	EPA 8082A Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP	08/14/2018 08:21	08/16/2018 12:26	LAB
1336-36-3	*** Total PCBs**	**0.0836**	ug/L	0.0606	1	EPA 8082A Certifications:		08/14/2018 08:21	08/16/2018 12:26	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*69.3 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*68.7 %*	*30-120*

Metals, TAL, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.00	1	EPA 6020A Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39 KML
7440-38-2	Arsenic	ND		ug/L	1.00	1	EPA 6020A Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39 KML
7440-39-3	**Barium**	**76.4**		ug/L	1.00	1	EPA 6020A Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39 KML
7440-41-7	Beryllium	ND		ug/L	0.300	1	EPA 6020A Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39 KML
7440-43-9	Cadmium	ND		ug/L	0.500	1	EPA 6020A Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39 KML
7440-47-3	**Chromium**	**3.85**		ug/L	1.00	1	EPA 6020A Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39 KML
7440-48-4	**Cobalt**	**2.50**		ug/L	1.00	1	EPA 6020A Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39 KML
7440-50-8	**Copper**	**5.17**		ug/L	1.00	1	EPA 6020A Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39 KML
7439-89-6	**Iron**	**1780**	B	ug/L	10.0	1	EPA 6020A Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39 KML
7439-92-1	**Lead**	**2.51**		ug/L	1.00	1	EPA 6020A Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39 KML
7439-96-5	**Manganese**	**259**		ug/L	1.00	1	EPA 6020A Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39 KML

Sample Information

Client Sample ID: **SB-5 (GW)** **York Sample ID:** **18H0567-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0567	580 Gerard Ave	Water	August 10, 2018 5:45 pm	08/13/2018

Metals, TAL, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	**Nickel**	**4.70**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39	KML
7782-49-2	**Selenium**	**1.10**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39	KML
7440-22-4	Silver	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39	KML
7440-28-0	Thallium	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39	KML
7440-62-2	**Vanadium**	**3.71**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39	KML
7440-66-6	**Zinc**	**48.2**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39	KML

Metals, TAL, ICPMS Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**322**		ug/L	10.0	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7440-36-0	Antimony	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7440-38-2	Arsenic	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7440-39-3	**Barium**	**62.9**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7440-41-7	Beryllium	ND		ug/L	0.300	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7440-43-9	Cadmium	ND		ug/L	0.500	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7440-47-3	**Chromium**	**1.70**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7440-48-4	**Cobalt**	**1.03**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7440-50-8	**Copper**	**2.56**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7439-89-6	**Iron**	**712**		ug/L	10.0	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7439-92-1	**Lead**	**1.55**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7439-96-5	**Manganese**	**122**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7440-02-0	**Nickel**	**2.07**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7782-49-2	Selenium	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML

Sample Information

Client Sample ID: **SB-5 (GW)** **York Sample ID:** **18H0567-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0567	580 Gerard Ave	Water	August 10, 2018 5:45 pm	08/13/2018

Metals, TAL, ICPMS Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7440-28-0	Thallium	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7440-62-2	**Vanadium**	**1.00**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7440-66-6	**Zinc**	**481**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		ug/L	0.20	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/20/2018 09:12	08/20/2018 14:15	SY

Mercury by 7473, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/20/2018 09:14	08/20/2018 12:16	SY

Analytical Batch Summary

Batch ID: BH80646 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
18H0567-01	SB-5 (GW)	08/14/18
18H0567-01	SB-5 (GW)	08/14/18
BH80646-BLK1	Blank	08/14/18
BH80646-BLK2	Blank	08/14/18
BH80646-BS1	LCS	08/14/18
BH80646-BS2	LCS	08/14/18
BH80646-BSD2	LCS Dup	08/14/18

Batch ID: BH80648 **Preparation Method:** EPA 3510C **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
18H0567-01	SB-5 (GW)	08/14/18
BH80648-BLK1	Blank	08/14/18
BH80648-BLK2	Blank	08/14/18
BH80648-BS1	LCS	08/14/18
BH80648-BS2	LCS	08/14/18
BH80648-BSD1	LCS Dup	08/14/18

Batch ID: BH80751 **Preparation Method:** EPA 3015A **Prepared By:** BML

YORK Sample ID	Client Sample ID	Preparation Date
18H0567-01	SB-5 (GW)	08/15/18
BH80751-BLK1	Blank	08/15/18
BH80751-BS1	LCS	08/15/18

Batch ID: BH80752 **Preparation Method:** EPA 3015A **Prepared By:** BML

YORK Sample ID	Client Sample ID	Preparation Date
18H0567-01	SB-5 (GW)	08/15/18
BH80752-BLK1	Blank	08/15/18
BH80752-BS1	LCS	08/15/18

Batch ID: BH80792 **Preparation Method:** EPA 5030B **Prepared By:** TAB

YORK Sample ID	Client Sample ID	Preparation Date
18H0567-01	SB-5 (GW)	08/16/18
BH80792-BLK1	Blank	08/16/18
BH80792-BS1	LCS	08/16/18
BH80792-BSD1	LCS Dup	08/16/18

Batch ID: BH80937 **Preparation Method:** EPA 7473 water **Prepared By:** KML

YORK Sample ID	Client Sample ID	Preparation Date
18H0567-01	SB-5 (GW)	08/20/18
BH80937-BLK1	Blank	08/20/18
BH80937-SRM1	Reference	08/20/18

Batch ID: BH80938 **Preparation Method:** EPA 7473 water **Prepared By:** KML

YORK Sample ID	Client Sample ID	Preparation Date
18H0567-01	SB-5 (GW)	08/20/18
BH80938-BLK1	Blank	08/20/18
BH80938-SRM1	Reference	08/20/18

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80792 - EPA 5030B											
Blank (BH80792-BLK1)								Prepared & Analyzed: 08/16/2018			
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80792 - EPA 5030B											
Blank (BH80792-BLK1)								Prepared & Analyzed: 08/16/2018			
n-Butylbenzene	ND	0.50	ug/L								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: 1,2-Dichloroethane-d4	*10.8*		*"*	*10.0*		*108*	*69-130*				
Surrogate: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*79-122*				
LCS (BH80792-BS1)								Prepared & Analyzed: 08/16/2018			
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		103	82-126				
1,1,1-Trichloroethane	11		"	10.0		106	78-136				
1,1,2,2-Tetrachloroethane	10		"	10.0		104	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		116	54-165				
1,1,2-Trichloroethane	9.7		"	10.0		96.9	82-123				
1,1-Dichloroethane	11		"	10.0		108	82-129				
1,1-Dichloroethylene	11		"	10.0		109	68-138				
1,2,3-Trichlorobenzene	11		"	10.0		109	76-136				
1,2,3-Trichloropropane	10		"	10.0		103	77-128				
1,2,4-Trichlorobenzene	10		"	10.0		99.9	76-137				
1,2,4-Trimethylbenzene	11		"	10.0		105	82-132				
1,2-Dibromo-3-chloropropane	10		"	10.0		103	45-147				
1,2-Dibromoethane	10		"	10.0		100	83-124				
1,2-Dichlorobenzene	10		"	10.0		101	79-123				
1,2-Dichloroethane	11		"	10.0		107	73-132				
1,2-Dichloropropane	10		"	10.0		100	78-126				
1,3,5-Trimethylbenzene	11		"	10.0		106	80-131				
1,3-Dichlorobenzene	10		"	10.0		99.9	86-122				
1,4-Dichlorobenzene	9.9		"	10.0		98.9	85-124				
1,4-Dioxane	350		"	210		165	10-349				
2-Butanone	11		"	10.0		114	49-152				
2-Hexanone	11		"	10.0		108	51-146				
4-Methyl-2-pentanone	11		"	10.0		108	57-145				
Acetone	10		"	10.0		101	14-150				
Acrolein	18		"	10.0		184	10-153	High Bias			
Acrylonitrile	8.5		"	10.0		84.8	51-150				
Benzene	10		"	10.0		102	85-126				
Bromochloromethane	11		"	10.0		105	77-128				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80792 - EPA 5030B											
LCS (BH80792-BS1)							Prepared & Analyzed: 08/16/2018				
Bromodichloromethane	10		ug/L	10.0		100	79-128				
Bromoform	10		"	10.0		99.6	78-133				
Bromomethane	10		"	10.0		99.8	43-168				
Carbon disulfide	12		"	10.0		120	68-146				
Carbon tetrachloride	11		"	10.0		109	77-141				
Chlorobenzene	10		"	10.0		102	88-120				
Chloroethane	9.6		"	10.0		96.1	65-136				
Chloroform	10		"	10.0		102	82-128				
Chloromethane	10		"	10.0		104	43-155				
cis-1,2-Dichloroethylene	11		"	10.0		106	83-129				
cis-1,3-Dichloropropylene	10		"	10.0		102	80-131				
Cyclohexane	12		"	10.0		116	63-149				
Dibromochloromethane	10		"	10.0		99.6	80-130				
Dibromomethane	10		"	10.0		101	72-134				
Dichlorodifluoromethane	14		"	10.0		141	44-144				
Ethyl Benzene	11		"	10.0		107	80-131				
Hexachlorobutadiene	11		"	10.0		107	67-146				
Isopropylbenzene	10		"	10.0		105	76-140				
Methyl acetate	10		"	10.0		102	51-139				
Methyl tert-butyl ether (MTBE)	11		"	10.0		111	76-135				
Methylcyclohexane	11		"	10.0		112	72-143				
Methylene chloride	11		"	10.0		112	55-137				
n-Butylbenzene	11		"	10.0		111	79-132				
n-Propylbenzene	11		"	10.0		109	78-133				
o-Xylene	11		"	10.0		107	78-130				
p- & m- Xylenes	19		"	20.0		96.1	77-133				
p-Isopropyltoluene	11		"	10.0		109	81-136				
sec-Butylbenzene	11		"	10.0		114	79-137				
Styrene	10		"	10.0		103	67-132				
tert-Butyl alcohol (TBA)	57		"	50.0		115	25-162				
tert-Butylbenzene	11		"	10.0		106	77-138				
Tetrachloroethylene	7.6		"	10.0		76.5	82-131	Low Bias			
Toluene	10		"	10.0		104	80-127				
trans-1,2-Dichloroethylene	11		"	10.0		109	80-132				
trans-1,3-Dichloropropylene	10		"	10.0		101	78-131				
trans-1,4-dichloro-2-butene	10		"	10.0		102	63-141				
Trichloroethylene	10		"	10.0		104	82-128				
Trichlorofluoromethane	10		"	10.0		100	67-139				
Vinyl Chloride	11		"	10.0		107	58-145				
Surrogate: 1,2-Dichloroethane-d4	*10.3*		*"*	*10.0*		*103*	*69-130*				
Surrogate: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80792 - EPA 5030B											
LCS Dup (BH80792-BSD1)								Prepared & Analyzed: 08/16/2018			
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		102	82-126		0.681	30	
1,1,1-Trichloroethane	10		"	10.0		101	78-136		4.53	30	
1,1,2,2-Tetrachloroethane	10		"	10.0		100	76-129		3.42	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		107	54-165		8.42	30	
1,1,2-Trichloroethane	9.8		"	10.0		98.2	82-123		1.33	30	
1,1-Dichloroethane	10		"	10.0		105	82-129		3.10	30	
1,1-Dichloroethylene	9.8		"	10.0		98.2	68-138		10.6	30	
1,2,3-Trichlorobenzene	10		"	10.0		104	76-136		5.07	30	
1,2,3-Trichloropropane	9.8		"	10.0		98.3	77-128		4.57	30	
1,2,4-Trichlorobenzene	9.8		"	10.0		98.1	76-137		1.82	30	
1,2,4-Trimethylbenzene	10		"	10.0		102	82-132		2.70	30	
1,2-Dibromo-3-chloropropane	9.9		"	10.0		99.0	45-147		4.06	30	
1,2-Dibromoethane	10		"	10.0		99.8	83-124		0.400	30	
1,2-Dichlorobenzene	9.9		"	10.0		99.2	79-123		1.60	30	
1,2-Dichloroethane	11		"	10.0		106	73-132		0.844	30	
1,2-Dichloropropane	10		"	10.0		101	78-126		0.397	30	
1,3,5-Trimethylbenzene	10		"	10.0		103	80-131		2.87	30	
1,3-Dichlorobenzene	9.8		"	10.0		98.4	86-122		1.51	30	
1,4-Dichlorobenzene	9.8		"	10.0		97.5	85-124		1.43	30	
1,4-Dioxane	170		"	210		81.1	10-349		68.1	30	Non-dir.
2-Butanone	9.6		"	10.0		95.7	49-152		17.5	30	
2-Hexanone	10		"	10.0		105	51-146		2.92	30	
4-Methyl-2-pentanone	11		"	10.0		106	57-145		2.71	30	
Acetone	8.9		"	10.0		89.2	14-150		12.0	30	
Acrolein	18		"	10.0		178	10-153	High Bias	3.38	30	
Acrylonitrile	7.6		"	10.0		76.2	51-150		10.7	30	
Benzene	10		"	10.0		101	85-126		1.18	30	
Bromochloromethane	10		"	10.0		104	77-128		1.53	30	
Bromodichloromethane	10		"	10.0		101	79-128		0.596	30	
Bromoform	9.8		"	10.0		98.4	78-133		1.21	30	
Bromomethane	9.5		"	10.0		94.6	43-168		5.35	30	
Carbon disulfide	11		"	10.0		113	68-146		6.36	30	
Carbon tetrachloride	10		"	10.0		104	77-141		4.89	30	
Chlorobenzene	10		"	10.0		101	88-120		1.08	30	
Chloroethane	9.1		"	10.0		90.8	65-136		5.67	30	
Chloroform	10		"	10.0		100	82-128		1.39	30	
Chloromethane	10		"	10.0		102	43-155		1.85	30	
cis-1,2-Dichloroethylene	10		"	10.0		104	83-129		1.24	30	
cis-1,3-Dichloropropylene	10		"	10.0		101	80-131		0.494	30	
Cyclohexane	11		"	10.0		110	63-149		5.51	30	
Dibromochloromethane	10		"	10.0		102	80-130		2.18	30	
Dibromomethane	10		"	10.0		100	72-134		0.598	30	
Dichlorodifluoromethane	13		"	10.0		132	44-144		6.65	30	
Ethyl Benzene	11		"	10.0		105	80-131		1.70	30	
Hexachlorobutadiene	10		"	10.0		104	67-146		2.94	30	
Isopropylbenzene	10		"	10.0		102	76-140		2.61	30	
Methyl acetate	9.2		"	10.0		92.3	51-139		9.79	30	
Methyl tert-butyl ether (MTBE)	11		"	10.0		108	76-135		2.01	30	
Methylcyclohexane	11		"	10.0		107	72-143		4.31	30	
Methylene chloride	11		"	10.0		106	55-137		5.40	30	
n-Butylbenzene	11		"	10.0		108	79-132		2.74	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80792 - EPA 5030B											
LCS Dup (BH80792-BSD1)								Prepared & Analyzed: 08/16/2018			
n-Propylbenzene	10		ug/L	10.0		105	78-133		3.75	30	
o-Xylene	11		"	10.0		106	78-130		1.69	30	
p- & m- Xylenes	19		"	20.0		94.3	77-133		1.89	30	
p-Isopropyltoluene	10		"	10.0		105	81-136		3.65	30	
sec-Butylbenzene	11		"	10.0		109	79-137		4.23	30	
Styrene	10		"	10.0		100	67-132		2.17	30	
tert-Butyl alcohol (TBA)	43		"	50.0		86.2	25-162		28.4	30	
tert-Butylbenzene	10		"	10.0		103	77-138		3.73	30	
Tetrachloroethylene	7.4		"	10.0		73.9	82-131	Low Bias	3.46	30	
Toluene	10		"	10.0		102	80-127		2.13	30	
trans-1,2-Dichloroethylene	11		"	10.0		106	80-132		3.36	30	
trans-1,3-Dichloropropylene	10		"	10.0		101	78-131		0.198	30	
trans-1,4-dichloro-2-butene	10		"	10.0		99.9	63-141		1.98	30	
Trichloroethylene	10		"	10.0		101	82-128		2.24	30	
Trichlorofluoromethane	9.3		"	10.0		92.9	67-139		7.56	30	
Vinyl Chloride	10		"	10.0		100	58-145		6.19	30	
Surrogate: 1,2-Dichloroethane-d4	*10.4*		*"*	*10.0*		*104*	*69-130*				
Surrogate: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*81-117*				
Surrogate: p-Bromofluorobenzene	*9.98*		*"*	*10.0*		*99.8*	*79-122*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
Blank (BH80648-BLK1)								Prepared & Analyzed: 08/14/2018			
1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2,4-Trichlorobenzene	ND	5.00	"								
1,2-Dichlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
1,3-Dichlorobenzene	ND	5.00	"								
1,4-Dichlorobenzene	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acenaphthene	ND	0.0500	"								
Acenaphthylene	ND	0.0500	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	20.0	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Benzoic acid	ND	50.0	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
Blank (BH80648-BLK1)								Prepared & Analyzed: 08/14/2018			
Caprolactam	ND	5.00	ug/L								
Carbazole	ND	5.00	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachlorocyclopentadiene	ND	5.00	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Isophorone	ND	5.00	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Phenol	ND	5.00	"								
Pyrene	ND	0.0500	"								
Surrogate: 2-Fluorophenol	*25.3*		*"*	*50.0*		*50.5*	*19.7-63.1*				
Surrogate: Phenol-d5	*13.3*		*"*	*50.0*		*26.6*	*10.1-41.7*				
Surrogate: Nitrobenzene-d5	*20.4*		*"*	*25.0*		*81.7*	*50.2-113*				
Surrogate: 2-Fluorobiphenyl	*26.1*		*"*	*25.0*		*105*	*39.9-105*				
Surrogate: 2,4,6-Tribromophenol	*50.6*		*"*	*50.0*		*101*	*39.3-151*				
Surrogate: Terphenyl-d14	*27.8*		*"*	*25.0*		*111*	*30.7-106*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
Blank (BH80648-BLK2)								Prepared & Analyzed: 08/14/2018			
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								
LCS (BH80648-BS1)								Prepared & Analyzed: 08/14/2018			
1,1-Biphenyl	21.8	5.00	ug/L	25.0		87.2	21-102				
1,2,4,5-Tetrachlorobenzene	22.7	5.00	"	25.0		90.8	28-105				
1,2,4-Trichlorobenzene	24.0	5.00	"	25.0		96.2	35-91	High Bias			
1,2-Dichlorobenzene	21.1	5.00	"	25.0		84.6	42-85				
1,2-Diphenylhydrazine (as Azobenzene)	21.0	5.00	"	25.0		84.0	16-137				
1,3-Dichlorobenzene	20.0	5.00	"	25.0		79.8	45-80				
1,4-Dichlorobenzene	17.9	5.00	"	25.0		71.6	42-82				
2,3,4,6-Tetrachlorophenol	48.3	5.00	"	25.0		193	30-130	High Bias			
2,4,5-Trichlorophenol	25.7	5.00	"	25.0		103	36-112				
2,4,6-Trichlorophenol	25.2	5.00	"	25.0		101	41-107				
2,4-Dichlorophenol	27.4	5.00	"	25.0		110	43-92	High Bias			
2,4-Dimethylphenol	23.2	5.00	"	25.0		92.8	25-92	High Bias			
2,4-Dinitrophenol	35.4	5.00	"	25.0		141	10-149				
2,4-Dinitrotoluene	24.3	5.00	"	25.0		97.0	41-114				
2,6-Dinitrotoluene	24.1	5.00	"	25.0		96.3	49-106				
2-Chloronaphthalene	22.0	5.00	"	25.0		88.0	40-96				
2-Chlorophenol	20.0	5.00	"	25.0		80.1	35-84				
2-Methylnaphthalene	23.6	5.00	"	25.0		94.3	33-101				
2-Methylphenol	16.9	5.00	"	25.0		67.5	10-90				
2-Nitroaniline	20.2	5.00	"	25.0		80.7	31-122				
2-Nitrophenol	24.2	5.00	"	25.0		96.9	37-97				
3- & 4-Methylphenols	14.0	5.00	"	25.0		56.0	10-101				
3,3-Dichlorobenzidine	23.6	5.00	"	25.0		94.3	25-155				
3-Nitroaniline	17.5	5.00	"	25.0		70.0	29-128				
4,6-Dinitro-2-methylphenol	29.9	5.00	"	25.0		119	10-135				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
LCS (BH80648-BS1)							Prepared & Analyzed: 08/14/2018				
4-Bromophenyl phenyl ether	23.4	5.00	ug/L	25.0		93.5	38-116				
4-Chloro-3-methylphenol	22.4	5.00	"	25.0		89.7	28-101				
4-Chloroaniline	13.9	5.00	"	25.0		55.8	10-154				
4-Chlorophenyl phenyl ether	23.1	5.00	"	25.0		92.3	34-112				
4-Nitroaniline	18.2	5.00	"	25.0		72.8	15-143				
4-Nitrophenol	10.2	5.00	"	25.0		40.8	10-112				
Acenaphthene	19.5	0.0500	"	25.0		78.1	24-114				
Acenaphthylene	20.0	0.0500	"	25.0		80.0	26-112				
Acetophenone	20.0	5.00	"	25.0		79.9	47-92				
Aniline	7.41	5.00	"	25.0		29.6	10-107				
Anthracene	20.3	0.0500	"	25.0		81.1	35-114				
Atrazine	25.4	0.500	"	25.0		101	43-101				
Benzaldehyde	21.6	5.00	"	25.0		86.4	17-117				
Benzo(a)anthracene	23.9	0.0500	"	25.0		95.7	38-127				
Benzo(a)pyrene	24.1	0.0500	"	25.0		96.5	30-146				
Benzo(b)fluoranthene	24.7	0.0500	"	25.0		98.7	36-145				
Benzo(g,h,i)perylene	20.0	0.0500	"	25.0		80.1	10-163				
Benzo(k)fluoranthene	22.6	0.0500	"	25.0		90.4	16-149				
Benzoic acid	ND	50.0	"	25.4			30-130	Low Bias			
Benzyl alcohol	15.5	5.00	"	25.0		62.1	18-75				
Benzyl butyl phthalate	23.5	5.00	"	25.0		94.0	28-129				
Bis(2-chloroethoxy)methane	23.3	5.00	"	25.0		93.4	27-112				
Bis(2-chloroethyl)ether	18.1	5.00	"	25.0		72.6	24-114				
Bis(2-chloroisopropyl)ether	20.3	5.00	"	25.0		81.1	21-124				
Bis(2-ethylhexyl)phthalate	23.3	0.500	"	25.0		93.2	10-171				
Caprolactam	4.53	5.00	"	25.0		18.1	10-29				
Carbazole	24.4	5.00	"	25.0		97.5	49-116				
Chrysene	21.7	0.0500	"	25.0		86.8	33-120				
Dibenzo(a,h)anthracene	21.4	0.0500	"	25.0		85.5	10-149				
Dibenzofuran	22.3	5.00	"	25.0		89.0	42-105				
Diethyl phthalate	23.6	5.00	"	25.0		94.3	38-112				
Dimethyl phthalate	23.1	5.00	"	25.0		92.4	49-106				
Di-n-butyl phthalate	20.4	5.00	"	25.0		81.7	36-110				
Di-n-octyl phthalate	23.9	5.00	"	25.0		95.6	12-149				
Fluoranthene	20.8	0.0500	"	25.0		83.0	33-126				
Fluorene	20.2	0.0500	"	25.0		80.7	28-117				
Hexachlorobenzene	19.4	0.0200	"	25.0		77.8	27-120				
Hexachlorobutadiene	23.5	0.500	"	25.0		93.9	25-106				
Hexachlorocyclopentadiene	12.8	5.00	"	25.0		51.2	10-99				
Hexachloroethane	17.5	0.500	"	25.0		70.0	33-84				
Indeno(1,2,3-cd)pyrene	21.3	0.0500	"	25.0		85.2	10-150				
Isophorone	22.2	5.00	"	25.0		88.6	29-115				
Naphthalene	19.6	0.0500	"	25.0		78.3	30-99				
Nitrobenzene	21.5	0.250	"	25.0		86.2	32-113				
N-Nitrosodimethylamine	11.1	0.500	"	25.0		44.2	10-63				
N-nitroso-di-n-propylamine	20.5	5.00	"	25.0		81.9	36-118				
N-Nitrosodiphenylamine	27.0	5.00	"	25.0		108	27-145				
Pentachlorophenol	25.3	0.250	"	25.0		101	19-127				
Phenanthrene	20.4	0.0500	"	25.0		81.4	31-112				
Phenol	8.00	5.00	"	25.0		32.0	10-37				
Pyrene	23.0	0.0500	"	25.0		92.0	42-125				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
LCS (BH80648-BS1)							Prepared & Analyzed: 08/14/2018				
Surrogate: 2-Fluorophenol	*29.4*		*ug/L*	*50.0*		*58.7*	*19.7-63.1*				
Surrogate: Phenol-d5	*15.2*		*"*	*50.0*		*30.5*	*10.1-41.7*				
Surrogate: Nitrobenzene-d5	*21.8*		*"*	*25.0*		*87.3*	*50.2-113*				
Surrogate: 2-Fluorobiphenyl	*26.1*		*"*	*25.0*		*104*	*39.9-105*				
Surrogate: 2,4,6-Tribromophenol	*60.2*		*"*	*50.0*		*120*	*39.3-151*				
Surrogate: Terphenyl-d14	*29.7*		*"*	*25.0*		*119*	*30.7-106*				
LCS (BH80648-BS2)							Prepared & Analyzed: 08/14/2018				
Acenaphthene	0.780	0.0500	ug/L	1.00		78.0	24-114				
Acenaphthylene	0.810	0.0500	"	1.00		81.0	26-112				
Anthracene	0.850	0.0500	"	1.00		85.0	35-114				
Atrazine	ND	0.500	"				43-101				
Benzo(a)anthracene	0.900	0.0500	"	1.00		90.0	38-127				
Benzo(a)pyrene	0.900	0.0500	"	1.00		90.0	30-146				
Benzo(b)fluoranthene	0.910	0.0500	"	1.00		91.0	36-145				
Benzo(g,h,i)perylene	0.970	0.0500	"	1.00		97.0	10-163				
Benzo(k)fluoranthene	0.900	0.0500	"	1.00		90.0	16-149				
Bis(2-ethylhexyl)phthalate	0.710	0.500	"	1.00		71.0	10-171				
Chrysene	0.820	0.0500	"	1.00		82.0	33-120				
Dibenzo(a,h)anthracene	0.960	0.0500	"	1.00		96.0	10-149				
Fluoranthene	0.980	0.0500	"	1.00		98.0	33-126				
Fluorene	0.890	0.0500	"	1.00		89.0	28-117				
Hexachlorobenzene	1.03	0.0200	"	1.00		103	27-120				
Hexachlorobutadiene	0.800	0.500	"	1.00		80.0	25-106				
Hexachloroethane	0.600	0.500	"	1.00		60.0	33-84				
Indeno(1,2,3-cd)pyrene	0.960	0.0500	"	1.00		96.0	10-150				
Naphthalene	0.800	0.0500	"	1.00		80.0	30-99				
Nitrobenzene	0.870	0.250	"	1.00		87.0	32-113				
N-Nitrosodimethylamine	ND	0.500	"	1.00			10-63	Low Bias			
Pentachlorophenol	1.17	0.250	"	1.00		117	19-127				
Phenanthrene	0.900	0.0500	"	1.00		90.0	31-112				
Pyrene	0.870	0.0500	"	1.00		87.0	42-125				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
LCS Dup (BH80648-BSD1)								Prepared & Analyzed: 08/14/2018			
1,1-Biphenyl	21.6	5.00	ug/L	25.0		86.4	21-102		0.922	20	
1,2,4,5-Tetrachlorobenzene	26.6	5.00	"	25.0		106	28-105	High Bias	15.6	20	
1,2,4-Trichlorobenzene	26.6	5.00	"	25.0		107	35-91	High Bias	10.3	20	
1,2-Dichlorobenzene	20.6	5.00	"	25.0		82.3	42-85		2.73	20	
1,2-Diphenylhydrazine (as Azobenzene)	18.0	5.00	"	25.0		71.8	16-137		15.6	20	
1,3-Dichlorobenzene	22.4	5.00	"	25.0		89.4	45-80	High Bias	11.3	20	
1,4-Dichlorobenzene	18.2	5.00	"	25.0		72.9	42-82		1.72	20	
2,3,4,6-Tetrachlorophenol	54.2	5.00	"	25.0		217	30-130	High Bias	11.6	20	
2,4,5-Trichlorophenol	25.2	5.00	"	25.0		101	36-112		1.93	20	
2,4,6-Trichlorophenol	26.8	5.00	"	25.0		107	41-107		6.08	20	
2,4-Dichlorophenol	27.9	5.00	"	25.0		112	43-92	High Bias	1.77	20	
2,4-Dimethylphenol	21.4	5.00	"	25.0		85.8	25-92		7.88	20	
2,4-Dinitrophenol	39.8	5.00	"	25.0		159	10-149	High Bias	11.8	20	
2,4-Dinitrotoluene	27.3	5.00	"	25.0		109	41-114		11.9	20	
2,6-Dinitrotoluene	25.7	5.00	"	25.0		103	49-106		6.35	20	
2-Chloronaphthalene	22.1	5.00	"	25.0		88.3	40-96		0.363	20	
2-Chlorophenol	20.4	5.00	"	25.0		81.6	35-84		1.88	20	
2-Methylnaphthalene	22.4	5.00	"	25.0		89.8	33-101		4.91	20	
2-Methylphenol	15.5	5.00	"	25.0		62.1	10-90		8.34	20	
2-Nitroaniline	22.8	5.00	"	25.0		91.1	31-122		12.1	20	
2-Nitrophenol	24.6	5.00	"	25.0		98.5	37-97	High Bias	1.68	20	
3- & 4-Methylphenols	14.4	5.00	"	25.0		57.6	10-101		2.82	20	
3,3-Dichlorobenzidine	23.0	5.00	"	25.0		92.2	25-155		2.23	20	
3-Nitroaniline	17.9	5.00	"	25.0		71.6	29-128		2.37	20	
4,6-Dinitro-2-methylphenol	31.0	5.00	"	25.0		124	10-135		3.68	20	
4-Bromophenyl phenyl ether	23.8	5.00	"	25.0		95.3	38-116		1.86	20	
4-Chloro-3-methylphenol	25.3	5.00	"	25.0		101	28-101		11.9	20	
4-Chloroaniline	14.1	5.00	"	25.0		56.4	10-154		1.07	20	
4-Chlorophenyl phenyl ether	26.5	5.00	"	25.0		106	34-112		13.8	20	
4-Nitroaniline	18.3	5.00	"	25.0		73.4	15-143		0.821	20	
4-Nitrophenol	10.8	5.00	"	25.0		43.2	10-112		5.71	20	
Acenaphthene	19.8	0.0500	"	25.0		79.0	24-114		1.22	20	
Acenaphthylene	21.1	0.0500	"	25.0		84.6	26-112		5.49	20	
Acetophenone	21.0	5.00	"	25.0		84.0	47-92		5.03	20	
Aniline	8.65	5.00	"	25.0		34.6	10-107		15.4	20	
Anthracene	20.8	0.0500	"	25.0		83.1	35-114		2.48	20	
Atrazine	25.0	0.500	"	25.0		99.9	43-101		1.47	20	
Benzaldehyde	24.3	5.00	"	25.0		97.2	17-117		11.7	20	
Benzo(a)anthracene	22.3	0.0500	"	25.0		89.0	38-127		7.19	20	
Benzo(a)pyrene	23.3	0.0500	"	25.0		93.0	30-146		3.63	20	
Benzo(b)fluoranthene	24.1	0.0500	"	25.0		96.4	36-145		2.38	20	
Benzo(g,h,i)perylene	22.4	0.0500	"	25.0		89.6	10-163		11.3	20	
Benzo(k)fluoranthene	23.9	0.0500	"	25.0		95.6	16-149		5.68	20	
Benzoic acid	ND	50.0	"	25.4			30-130	Low Bias		20	
Benzyl alcohol	15.3	5.00	"	25.0		61.2	18-75		1.56	20	
Benzyl butyl phthalate	22.6	5.00	"	25.0		90.4	28-129		3.86	20	
Bis(2-chloroethoxy)methane	24.2	5.00	"	25.0		96.6	27-112		3.41	20	
Bis(2-chloroethyl)ether	20.6	5.00	"	25.0		82.2	24-114		12.5	20	
Bis(2-chloroisopropyl)ether	19.1	5.00	"	25.0		76.5	21-124		5.84	20	
Bis(2-ethylhexyl)phthalate	22.8	0.500	"	25.0		91.1	10-171		2.30	20	
Caprolactam	4.91	5.00	"	25.0		19.6	10-29		8.05	20	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
LCS Dup (BH80648-BSD1)							Prepared & Analyzed: 08/14/2018				
Carbazole	25.6	5.00	ug/L	25.0		102	49-116		4.96	20	
Chrysene	20.2	0.0500	"	25.0		81.0	33-120		6.91	20	
Dibenzo(a,h)anthracene	23.1	0.0500	"	25.0		92.4	10-149		7.78	20	
Dibenzofuran	23.6	5.00	"	25.0		94.2	42-105		5.63	20	
Diethyl phthalate	25.3	5.00	"	25.0		101	38-112		6.92	20	
Dimethyl phthalate	24.5	5.00	"	25.0		97.8	49-106		5.72	20	
Di-n-butyl phthalate	22.3	5.00	"	25.0		89.4	36-110		8.98	20	
Di-n-octyl phthalate	22.0	5.00	"	25.0		88.0	12-149		8.28	20	
Fluoranthene	23.8	0.0500	"	25.0		95.3	33-126		13.8	20	
Fluorene	23.6	0.0500	"	25.0		94.3	28-117		15.6	20	
Hexachlorobenzene	21.0	0.0200	"	25.0		84.0	27-120		7.62	20	
Hexachlorobutadiene	25.0	0.500	"	25.0		100	25-106		6.31	20	
Hexachlorocyclopentadiene	14.2	5.00	"	25.0		56.9	10-99		10.5	20	
Hexachloroethane	18.8	0.500	"	25.0		75.1	33-84		7.11	20	
Indeno(1,2,3-cd)pyrene	23.7	0.0500	"	25.0		94.8	10-150		10.7	20	
Isophorone	23.1	5.00	"	25.0		92.2	29-115		3.98	20	
Naphthalene	19.0	0.0500	"	25.0		76.0	30-99		2.95	20	
Nitrobenzene	20.6	0.250	"	25.0		82.4	32-113		4.51	20	
N-Nitrosodimethylamine	12.4	0.500	"	25.0		49.6	10-63		11.3	20	
N-nitroso-di-n-propylamine	20.9	5.00	"	25.0		83.6	36-118		2.08	20	
N-Nitrosodiphenylamine	26.7	5.00	"	25.0		107	27-145		0.968	20	
Pentachlorophenol	27.3	0.250	"	25.0		109	19-127		7.53	20	
Phenanthrene	22.4	0.0500	"	25.0		89.8	31-112		9.77	20	
Phenol	7.61	5.00	"	25.0		30.4	10-37		5.00	20	
Pyrene	21.5	0.0500	"	25.0		86.0	42-125		6.83	20	
Surrogate: 2-Fluorophenol	*29.4*		*"*	*50.0*		*58.9*	*19.7-63.1*				
Surrogate: Phenol-d5	*15.9*		*"*	*50.0*		*31.8*	*10.1-41.7*				
Surrogate: Nitrobenzene-d5	*23.8*		*"*	*25.0*		*95.0*	*50.2-113*				
Surrogate: 2-Fluorobiphenyl	*26.1*		*"*	*25.0*		*104*	*39.9-105*				
Surrogate: 2,4,6-Tribromophenol	*60.7*		*"*	*50.0*		*121*	*39.3-151*				
Surrogate: Terphenyl-d14	*29.4*		*"*	*25.0*		*118*	*30.7-106*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80646 - EPA SW846-3510C Low Level											
Blank (BH80646-BLK1)								Prepared: 08/14/2018 Analyzed: 08/15/2018			
4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
alpha-Chlordane	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
Chlordane, total	ND	0.0200	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
gamma-Chlordane	ND	0.0100	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
Surrogate: Decachlorobiphenyl	*0.111*		*"*	*0.201*		*55.4*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.105*		*"*	*0.202*		*51.9*	*30-150*				
LCS (BH80646-BS1)								Prepared: 08/14/2018 Analyzed: 08/15/2018			
4,4'-DDD	0.119	0.00400	ug/L	0.100		119	40-140				
4,4'-DDE	0.105	0.00400	"	0.100		105	40-140				
4,4'-DDT	0.119	0.00400	"	0.100		119	40-140				
Aldrin	0.105	0.00400	"	0.100		105	40-140				
alpha-BHC	0.115	0.00400	"	0.100		115	40-140				
alpha-Chlordane	0.103	0.00400	"	0.100		103	40-140				
beta-BHC	0.0985	0.00400	"	0.100		98.5	40-140				
delta-BHC	0.119	0.00400	"	0.100		119	40-140				
Dieldrin	0.0923	0.00200	"	0.100		92.3	40-140				
Endosulfan I	0.105	0.00400	"	0.100		105	40-140				
Endosulfan II	0.112	0.00400	"	0.100		112	40-140				
Endosulfan sulfate	0.110	0.00400	"	0.100		110	40-140				
Endrin	0.114	0.00400	"	0.100		114	40-140				
Endrin aldehyde	0.110	0.0100	"	0.100		110	40-140				
Endrin ketone	0.109	0.0100	"	0.100		109	40-140				
gamma-BHC (Lindane)	0.115	0.00400	"	0.100		115	40-140				
gamma-Chlordane	0.102	0.0100	"	0.100		102	40-140				
Heptachlor	0.0987	0.00400	"	0.100		98.7	40-140				
Heptachlor epoxide	0.0973	0.00400	"	0.100		97.3	40-140				
Methoxychlor	0.105	0.00400	"	0.100		105	40-140				
Surrogate: Decachlorobiphenyl	*0.182*		*"*	*0.201*		*90.4*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.174*		*"*	*0.202*		*86.3*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch Y8H1603 - BH80158											
Performance Mix (Y8H1603-PEM1)							Prepared & Analyzed: 08/15/2018				
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.571		"	0.00			0-200				
4,4'-DDT	277		"	200		138	0-200				
Endrin	167		"	100		167	0-200				
Endrin aldehyde	2.72		"	0.00			0-200				
Endrin ketone	8.53		"	0.00			0-200				
Performance Mix (Y8H1603-PEM2)							Prepared & Analyzed: 08/15/2018				
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.496		"	0.00			0-200				
4,4'-DDT	316		"	200		158	0-200				
Endrin	185		"	100		185	0-200				
Endrin aldehyde	1.70		"	0.00			0-200				
Endrin ketone	7.15		"	0.00			0-200				
Batch Y8H2015 - BH80158											
Performance Mix (Y8H2015-PEM1)							Prepared & Analyzed: 08/17/2018				
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.766		"	0.00			0-200				
4,4'-DDT	311		"	200		156	0-200				
Endrin	189		"	100		189	0-200				
Endrin aldehyde	2.18		"	0.00			0-200				
Endrin ketone	9.22		"	0.00			0-200				
Performance Mix (Y8H2015-PEM2)							Prepared & Analyzed: 08/17/2018				
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.867		"	0.00			0-200				
4,4'-DDT	288		"	200		144	0-200				
Endrin	193		"	100		193	0-200				
Endrin aldehyde	2.52		"	0.00			0-200				
Endrin ketone	10.7		"	0.00			0-200				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch Y8H2015 - BH80158											
Performance Mix (Y8H2015-PEM3)								Prepared: 08/17/2018 Analyzed: 08/18/2018			
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.939		"	0.00			0-200				
4,4'-DDT	292		"	200		146	0-200				
Endrin	200		"	100		200	0-200				
Endrin aldehyde	2.87		"	0.00			0-200				
Endrin ketone	10.4		"	0.00			0-200				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80646 - EPA SW846-3510C Low Level											
Blank (BH80646-BLK2)								Prepared & Analyzed: 08/14/2018			
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.202*		*"*	*0.202*		*100*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.173*		*"*	*0.201*		*86.1*	*30-120*				
LCS (BH80646-BS2)								Prepared & Analyzed: 08/14/2018			
Aroclor 1016	1.11	0.0500	ug/L	1.00		111	40-120				
Aroclor 1260	1.07	0.0500	"	1.00		107	40-120				
Surrogate: Tetrachloro-m-xylene	*0.202*		*"*	*0.202*		*100*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.167*		*"*	*0.201*		*83.1*	*30-120*				
LCS Dup (BH80646-BSD2)								Prepared: 08/14/2018 Analyzed: 08/15/2018			
Aroclor 1016	1.06	0.0500	ug/L	1.00		106	40-120		4.82	30	
Aroclor 1260	1.24	0.0500	"	1.00		124	40-120	High Bias	14.4	30	
Surrogate: Tetrachloro-m-xylene	*0.222*		*"*	*0.202*		*110*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.231*		*"*	*0.201*		*115*	*30-120*				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80751 - EPA 3015A											
Blank (BH80751-BLK1)								Prepared: 08/15/2018 Analyzed: 08/20/2018			
Aluminum	ND	10.0	ug/L								
Antimony	ND	1.00	"								
Arsenic	ND	1.00	"								
Barium	ND	1.00	"								
Beryllium	ND	0.300	"								
Cadmium	ND	0.500	"								
Chromium	ND	1.00	"								
Cobalt	ND	1.00	"								
Copper	ND	1.00	"								
Iron	74.4	10.0	"								
Lead	ND	1.00	"								
Manganese	ND	1.00	"								
Nickel	ND	1.00	"								
Selenium	ND	1.00	"								
Silver	ND	1.00	"								
Thallium	ND	1.00	"								
Vanadium	ND	1.00	"								
Zinc	ND	1.00	"								
LCS (BH80751-BS1)								Prepared: 08/15/2018 Analyzed: 08/20/2018			
Aluminum	2260		ug/L	2500		90.3	80-120				
Antimony	49.8		"	50.0		99.6	80-120				
Arsenic	46.1		"	50.0		92.2	80-120				
Barium	45.7		"	50.0		91.3	80-120				
Beryllium	45.9		"	50.0		91.9	80-120				
Cadmium	47.5		"	50.0		95.1	80-120				
Chromium	46.1		"	50.0		92.2	80-120				
Cobalt	45.0		"	50.0		90.0	80-120				
Copper	46.8		"	50.0		93.7	80-120				
Iron	2370		"	2500		94.7	80-120				
Lead	49.1		"	50.0		98.3	80-120				
Manganese	44.5		"	50.0		88.9	80-120				
Nickel	47.0		"	50.0		94.0	80-120				
Selenium	40.3		"	50.0		80.7	80-120				
Silver	48.1		"	50.0		96.2	80-120				
Thallium	47.4		"	50.0		94.9	80-120				
Vanadium	44.6		"	50.0		89.2	80-120				
Zinc	45.5		"	50.0		90.9	80-120				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80752 - EPA 3015A											
Blank (BH80752-BLK1)								Prepared: 08/15/2018 Analyzed: 08/20/2018			
Aluminum - Dissolved	ND	10.0	ug/L								
Antimony - Dissolved	ND	1.00	"								
Arsenic - Dissolved	ND	1.00	"								
Barium - Dissolved	ND	1.00	"								
Beryllium - Dissolved	ND	0.300	"								
Cadmium - Dissolved	ND	0.500	"								
Chromium - Dissolved	ND	1.00	"								
Cobalt - Dissolved	ND	1.00	"								
Copper - Dissolved	ND	1.00	"								
Iron - Dissolved	ND	10.0	"								
Lead - Dissolved	ND	1.00	"								
Manganese - Dissolved	ND	1.00	"								
Nickel - Dissolved	ND	1.00	"								
Selenium - Dissolved	ND	1.00	"								
Silver - Dissolved	ND	1.00	"								
Thallium - Dissolved	ND	1.00	"								
Vanadium - Dissolved	ND	1.00	"								
Zinc - Dissolved	ND	1.00	"								
LCS (BH80752-BS1)								Prepared: 08/15/2018 Analyzed: 08/20/2018			
Aluminum - Dissolved	2080		ug/L	2500		83.0	80-120				
Antimony - Dissolved	48.0		"	50.0		96.0	80-120				
Arsenic - Dissolved	43.8		"	50.0		87.6	80-120				
Barium - Dissolved	46.2		"	50.0		92.5	80-120				
Beryllium - Dissolved	45.3		"	50.0		90.7	80-120				
Cadmium - Dissolved	45.1		"	50.0		90.1	80-120				
Chromium - Dissolved	43.7		"	50.0		87.5	80-120				
Cobalt - Dissolved	42.2		"	50.0		84.5	80-120				
Copper - Dissolved	44.4		"	50.0		88.7	80-120				
Iron - Dissolved	2310		"	2500		92.5	80-120				
Lead - Dissolved	48.7		"	50.0		97.3	80-120				
Manganese - Dissolved	44.7		"	50.0		89.5	80-120				
Nickel - Dissolved	44.8		"	50.0		89.6	80-120				
Selenium - Dissolved	43.8		"	50.0		87.6	80-120				
Silver - Dissolved	46.3		"	50.0		92.5	80-120				
Thallium - Dissolved	47.5		"	50.0		95.0	80-120				
Vanadium - Dissolved	41.0		"	50.0		82.1	80-120				
Zinc - Dissolved	44.4		"	50.0		88.8	80-120				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80937 - EPA 7473 water											
Blank (BH80937-BLK1)								Prepared & Analyzed: 08/20/2018			
Mercury	ND	0.20	ug/L								
Reference (BH80937-SRM1)								Prepared & Analyzed: 08/20/2018			
Mercury	0.0103		mg/L	0.0100		103	70-130				
Batch BH80938 - EPA 7473 water											
Blank (BH80938-BLK1)								Prepared & Analyzed: 08/20/2018			
Mercury - Dissolved	ND	0.0002000	mg/L								
Reference (BH80938-SRM1)								Prepared & Analyzed: 08/20/2018			
Mercury - Dissolved	0.009593		mg/L	0.0100		95.9	70-130				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18H0567-01	SB-5 (GW)	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

S-08	The recovery of this surrogate was outside of QC limits.
QR-04	The RPD exceeded control limits for the LCS/LCSD QC.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
QC-LCS	LCS/LCS Dup recovery was above laboratory control limits. Sample does not contain any target compounds; therefore sample results are acceptable.
M-MBLk	Analyte was detected in the batch method blank above the Reporting Limit.
M-ISO	The ICP/MS result reported for this element used an alternate isotope due to molecular interferences encountered with the sample matrix.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
EXT-D	The sample submitted contained sediment. The aqueous portion was decanted off, the volume measured and used for the extraction. The sediment was not included in the extraction.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

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

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
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YORK ANALYTICAL LABORATORIES INC

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 18H0567

Page 1 of 1

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: GEI Consultants	Company:	Company:		RUSH - Next Day
Address: 110 Walt Whitman Rd Huntington Station	Address:	Address: Same		RUSH - Two Day
Phone: 631-760-9300	Phone:	Phone:	YOUR Project Name: 580 Gerard Ave	RUSH - Three Day
Contact: William J. Fitchett	Contact: Wendy Montecasso	Contact: Same		RUSH - Four Day
E-mail: wfitchett@geiconsultants.com	E-mail: wmontecasso@geiconsultants.com	E-mail:	YOUR PO#:	Standard (5-7 Day)

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

William J. Fitchett

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

WJ Fitchett

Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
S - soil / solid	New York ✓	Summary Report	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)
GW - groundwater	New Jersey	QA Report	CT RCP DQA/DUE	EQuIS (Standard)	
DW - drinking water	Connecticut	NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EQuIS	
WW - wastewater	Pennsylvania	NY ASP B Package		NJDEP SRP HazSite	
O - Oil ⋮ Other	Other		NJDKQP	Other:	

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB-5 (GW)	GW	8/10/18 1145	TCL VOCs (8260) TCL SVOCs (8270), TAL Metals, PCBs (8082), Pesticides (8081)	(3 ambers, 2 plastics, 3 voa vials)

Comments: Please hold these pending results of SB-2 (GW)

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: _____

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
WJ Fitchett / GEI	8/13/18 1025AM	KBah	8/13/18 1025AM	KBah	8/13/18 1645
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				TC Fabbri	8/13/18 1645

Temp. Received at Lab 1.6 Degrees C

Technical Report

prepared for:

GEI Consultants, Inc
110 Walt Whitman Road, Suite 204
Huntington Station NY, 11746
Attention: Wendy Monterosso

Report Date: 08/20/2018
Client Project ID: 580 Gerald Ave
York Project (SDG) No.: 18H0548

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

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

Report Date: 08/20/2018
Client Project ID: 580 Gerald Ave
York Project (SDG) No.: 18H0548

GEI Consultants, Inc
110 Walt Whitman Road, Suite 204
Huntington Station NY, 11746
Attention: Wendy Monterosso

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 13, 2018 and listed below. The project was identified as your project: **580 Gerald Ave**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
18H0548-01	SV-1	Soil Vapor	08/10/2018	08/13/2018
18H0548-02	SV-2	Soil Vapor	08/10/2018	08/13/2018
18H0548-03	SV-3	Soil Vapor	08/10/2018	08/13/2018
18H0548-04	SV-4	Soil Vapor	08/10/2018	08/13/2018

General Notes for York Project (SDG) No.: 18H0548

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: **Date:** 08/20/2018

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **SV-1** **York Sample ID:** **18H0548-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0548	580 Gerald Ave	Soil Vapor	August 10, 2018 2:35 pm	08/13/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications:	08/16/2018 20:15	08/16/2018 20:15	LDS
71-55-6	**1,1,1-Trichloroethane**	**4.6**		ug/m³	0.84	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.2	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.84	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.15	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
95-63-6	**1,2,4-Trimethylbenzene**	**8.2**		ug/m³	0.76	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.2	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.93	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.71	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.76	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
106-99-0	**1,3-Butadiene**	**4.5**		ug/m³	1.0	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
541-73-1	**1,3-Dichlorobenzene**	**7.7**		ug/m³	0.93	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.71	1.546	EPA TO-15 Certifications:	08/16/2018 20:15	08/16/2018 20:15	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.93	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
78-93-3	**2-Butanone**	**120**		ug/m³	0.46	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	1.3	1.546	EPA TO-15 Certifications:	08/16/2018 20:15	08/16/2018 20:15	LDS

Sample Information

Client Sample ID: **SV-1** **York Sample ID:** **18H0548-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0548	580 Gerald Ave	Soil Vapor	August 10, 2018 2:35 pm	08/13/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	2.4	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
108-10-1	**4-Methyl-2-pentanone**	**8.0**		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
67-64-1	**Acetone**	**660**		ug/m³	16	34.06	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/17/2018 14:56	08/17/2018 19:31	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.34	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
71-43-2	**Benzene**	**7.6**		ug/m³	0.49	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.80	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	1.0	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
75-25-2	Bromoform	ND		ug/m³	1.6	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
74-83-9	Bromomethane	ND		ug/m³	0.60	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
75-15-0	Carbon disulfide	ND		ug/m³	0.48	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
56-23-5	Carbon tetrachloride	ND		ug/m³	0.24	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.71	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
75-00-3	Chloroethane	ND		ug/m³	0.41	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
67-66-3	Chloroform	ND		ug/m³	0.75	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
74-87-3	Chloromethane	ND		ug/m³	0.32	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.15	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.70	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
110-82-7	**Cyclohexane**	**7.2**		ug/m³	0.53	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	1.3	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
75-71-8	Dichlorodifluoromethane	ND		ug/m³	0.76	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications:	08/16/2018 20:15	08/16/2018 20:15	LDS
100-41-4	**Ethyl Benzene**	**7.5**		ug/m³	0.67	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.6	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS

Sample Information

Client Sample ID: **SV-1** **York Sample ID:** **18H0548-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0548	580 Gerald Ave	Soil Vapor	August 10, 2018 2:35 pm	08/13/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-63-0	**Isopropanol**	**140**		ug/m³	0.76	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
80-62-6	Methyl Methacrylate	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.56	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
75-09-2	Methylene chloride	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
142-82-5	**n-Heptane**	**21**		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
110-54-3	**n-Hexane**	**11**		ug/m³	0.54	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
95-47-6	**o-Xylene**	**11**		ug/m³	0.67	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
179601-23-1	**p- & m- Xylenes**	**30**		ug/m³	1.3	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.76	1.546	EPA TO-15 Certifications:	08/16/2018 20:15	08/16/2018 20:15	LDS
115-07-1	*** Propylene**	**28**		ug/m³	0.27	1.546	EPA TO-15 Certifications:	08/16/2018 20:15	08/16/2018 20:15	LDS
100-42-5	Styrene	ND		ug/m³	0.66	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
127-18-4	**Tetrachloroethylene**	**56**		ug/m³	0.26	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
109-99-9	*** Tetrahydrofuran**	**16**		ug/m³	0.91	1.546	EPA TO-15 Certifications:	08/16/2018 20:15	08/16/2018 20:15	LDS
108-88-3	**Toluene**	**26**		ug/m³	0.58	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.61	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.70	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.21	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	0.87	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.54	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.68	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.099	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*108 %*	*70-130*

Sample Information

Client Sample ID: **SV-2** **York Sample ID:** **18H0548-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0548	580 Gerald Ave	Soil Vapor	August 10, 2018 11:28 am	08/13/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications:	08/16/2018 21:14	08/16/2018 21:14	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.84	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.2	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.84	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.15	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
95-63-6	**1,2,4-Trimethylbenzene**	**10**		ug/m³	0.76	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.2	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.93	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.71	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.76	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	1.0	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.93	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.71	1.546	EPA TO-15 Certifications:	08/16/2018 21:14	08/16/2018 21:14	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.93	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
78-93-3	**2-Butanone**	**26**		ug/m³	0.46	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	1.3	1.546	EPA TO-15 Certifications:	08/16/2018 21:14	08/16/2018 21:14	LDS
107-05-1	3-Chloropropene	ND		ug/m³	2.4	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS

Sample Information

Client Sample ID: **SV-2** **York Sample ID:** **18H0548-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0548	580 Gerald Ave	Soil Vapor	August 10, 2018 11:28 am	08/13/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
67-64-1	**Acetone**	**150**		ug/m³	0.73	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.34	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
71-43-2	**Benzene**	**4.4**		ug/m³	0.49	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.80	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	1.0	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
75-25-2	Bromoform	ND		ug/m³	1.6	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
74-83-9	Bromomethane	ND		ug/m³	0.60	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
75-15-0	**Carbon disulfide**	**12**		ug/m³	0.48	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
56-23-5	Carbon tetrachloride	ND		ug/m³	0.24	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.71	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
75-00-3	Chloroethane	ND		ug/m³	0.41	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
67-66-3	Chloroform	ND		ug/m³	0.75	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
74-87-3	**Chloromethane**	**1.6**		ug/m³	0.32	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.15	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.70	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
110-82-7	**Cyclohexane**	**3.7**		ug/m³	0.53	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	1.3	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
75-71-8	Dichlorodifluoromethane	ND		ug/m³	0.76	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications:	08/16/2018 21:14	08/16/2018 21:14	LDS
100-41-4	**Ethyl Benzene**	**7.9**		ug/m³	0.67	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.6	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
67-63-0	**Isopropanol**	**67**		ug/m³	0.76	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS

Sample Information

Client Sample ID: **SV-2** **York Sample ID:** **18H0548-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0548	580 Gerald Ave	Soil Vapor	August 10, 2018 11:28 am	08/13/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.56	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
75-09-2	**Methylene chloride**	**37**		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
142-82-5	n-Heptane	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
110-54-3	**n-Hexane**	**8.4**		ug/m³	0.54	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
95-47-6	**o-Xylene**	**11**		ug/m³	0.67	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
179601-23-1	**p- & m- Xylenes**	**31**		ug/m³	1.3	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.76	1.546	EPA TO-15 Certifications:	08/16/2018 21:14	08/16/2018 21:14	LDS
115-07-1	*** Propylene**	**15**		ug/m³	0.27	1.546	EPA TO-15 Certifications:	08/16/2018 21:14	08/16/2018 21:14	LDS
100-42-5	Styrene	ND		ug/m³	0.66	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
127-18-4	**Tetrachloroethylene**	**460**		ug/m³	5.6	33.22	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/17/2018 14:56	08/17/2018 20:17	LDS
109-99-9	*** Tetrahydrofuran**	**5.6**		ug/m³	0.91	1.546	EPA TO-15 Certifications:	08/16/2018 21:14	08/16/2018 21:14	LDS
108-88-3	**Toluene**	**18**		ug/m³	0.58	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.61	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.70	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.21	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	0.87	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.54	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.68	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.099	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*104 %*	*70-130*

Sample Information

Client Sample ID: **SV-3** **York Sample ID:** **18H0548-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0548	580 Gerald Ave	Soil Vapor	August 10, 2018 11:02 am	08/13/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications:	08/16/2018 22:12	08/16/2018 22:12	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.84	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.2	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.84	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.15	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
95-63-6	**1,2,4-Trimethylbenzene**	**47**		ug/m³	0.76	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.2	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.93	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.71	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
108-67-8	**1,3,5-Trimethylbenzene**	**25**		ug/m³	0.76	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
106-99-0	**1,3-Butadiene**	**7.8**		ug/m³	1.0	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.93	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.71	1.546	EPA TO-15 Certifications:	08/16/2018 22:12	08/16/2018 22:12	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.93	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
78-93-3	**2-Butanone**	**62**		ug/m³	0.46	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	1.3	1.546	EPA TO-15 Certifications:	08/16/2018 22:12	08/16/2018 22:12	LDS
107-05-1	3-Chloropropene	ND		ug/m³	2.4	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS

Sample Information

Client Sample ID: **SV-3** **York Sample ID:** **18H0548-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0548	580 Gerald Ave	Soil Vapor	August 10, 2018 11:02 am	08/13/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	**4-Methyl-2-pentanone**	**8.8**		ug/m³	0.63	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-64-1	**Acetone**	**180**		ug/m³	8.2	17.33	EPA TO-15	08/17/2018 14:56	08/17/2018 21:03	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
107-13-1	Acrylonitrile	ND		ug/m³	0.34	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
71-43-2	**Benzene**	**23**		ug/m³	0.49	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
100-44-7	Benzyl chloride	ND		ug/m³	0.80	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-27-4	Bromodichloromethane	ND		ug/m³	1.0	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-25-2	Bromoform	ND		ug/m³	1.6	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-83-9	Bromomethane	ND		ug/m³	0.60	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-15-0	**Carbon disulfide**	**31**		ug/m³	0.48	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
56-23-5	Carbon tetrachloride	ND		ug/m³	0.24	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-90-7	Chlorobenzene	ND		ug/m³	0.71	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-00-3	Chloroethane	ND		ug/m³	0.41	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-66-3	**Chloroform**	**4.5**		ug/m³	0.75	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-87-3	**Chloromethane**	**3.3**		ug/m³	0.32	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.15	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.70	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-82-7	**Cyclohexane**	**46**		ug/m³	0.53	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
124-48-1	Dibromochloromethane	ND		ug/m³	1.3	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-71-8	Dichlorodifluoromethane	ND		ug/m³	0.76	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
141-78-6	* Ethyl acetate	ND		ug/m³	1.1	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications:			
100-41-4	**Ethyl Benzene**	**22**		ug/m³	0.67	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.6	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-63-0	**Isopropanol**	**60**		ug/m³	0.76	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: **SV-3** **York Sample ID:** **18H0548-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0548	580 Gerald Ave	Soil Vapor	August 10, 2018 11:02 am	08/13/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
1634-04-4	**Methyl tert-butyl ether (MTBE)**	**8.4**		ug/m³	0.56	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
75-09-2	**Methylene chloride**	**6.9**		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
142-82-5	**n-Heptane**	**120**		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
110-54-3	**n-Hexane**	**75**		ug/m³	0.54	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
95-47-6	**o-Xylene**	**28**		ug/m³	0.67	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
179601-23-1	**p- & m- Xylenes**	**73**		ug/m³	1.3	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
622-96-8	*** p-Ethyltoluene**	**29**		ug/m³	0.76	1.546	EPA TO-15 Certifications:	08/16/2018 22:12	08/16/2018 22:12	LDS
115-07-1	*** Propylene**	**130**	E	ug/m³	0.27	1.546	EPA TO-15 Certifications:	08/16/2018 22:12	08/16/2018 22:12	LDS
100-42-5	Styrene	ND		ug/m³	0.66	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
127-18-4	**Tetrachloroethylene**	**44**		ug/m³	0.26	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
109-99-9	*** Tetrahydrofuran**	**22**		ug/m³	0.91	1.546	EPA TO-15 Certifications:	08/16/2018 22:12	08/16/2018 22:12	LDS
108-88-3	**Toluene**	**47**		ug/m³	0.58	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.61	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.70	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.21	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	0.87	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.54	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.68	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.099	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*101 %*	*70-130*

Sample Information

Client Sample ID: **SV-4** **York Sample ID:** **18H0548-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0548	580 Gerald Ave	Soil Vapor	August 10, 2018 11:29 am	08/13/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications:	08/16/2018 23:10	08/16/2018 23:10	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.84	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.2	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.84	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.15	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
95-63-6	**1,2,4-Trimethylbenzene**	**12**		ug/m³	0.76	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.2	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.93	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.71	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.76	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	1.0	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.93	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.71	1.546	EPA TO-15 Certifications:	08/16/2018 23:10	08/16/2018 23:10	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.93	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
78-93-3	**2-Butanone**	**25**		ug/m³	0.46	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	1.3	1.546	EPA TO-15 Certifications:	08/16/2018 23:10	08/16/2018 23:10	LDS
107-05-1	3-Chloropropene	ND		ug/m³	2.4	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS

Sample Information

Client Sample ID: **SV-4** **York Sample ID:** **18H0548-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0548	580 Gerald Ave	Soil Vapor	August 10, 2018 11:29 am	08/13/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	**4-Methyl-2-pentanone**	**3.5**		ug/m³	0.63	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-64-1	**Acetone**	**110**		ug/m³	0.73	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
107-13-1	Acrylonitrile	ND		ug/m³	0.34	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
71-43-2	**Benzene**	**3.1**		ug/m³	0.49	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
100-44-7	Benzyl chloride	ND		ug/m³	0.80	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-27-4	Bromodichloromethane	ND		ug/m³	1.0	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-25-2	Bromoform	ND		ug/m³	1.6	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-83-9	Bromomethane	ND		ug/m³	0.60	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-15-0	**Carbon disulfide**	**43**		ug/m³	0.48	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
56-23-5	Carbon tetrachloride	ND		ug/m³	0.24	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-90-7	Chlorobenzene	ND		ug/m³	0.71	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-00-3	Chloroethane	ND		ug/m³	0.41	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-66-3	Chloroform	ND		ug/m³	0.75	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-87-3	**Chloromethane**	**1.9**		ug/m³	0.32	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.15	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.70	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-82-7	**Cyclohexane**	**11**		ug/m³	0.53	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
124-48-1	Dibromochloromethane	ND		ug/m³	1.3	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-71-8	Dichlorodifluoromethane	ND		ug/m³	0.76	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
141-78-6	* Ethyl acetate	ND		ug/m³	1.1	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications:			
100-41-4	**Ethyl Benzene**	**8.2**		ug/m³	0.67	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.6	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-63-0	**Isopropanol**	**47**		ug/m³	0.76	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: **SV-4** **York Sample ID:** **18H0548-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0548	580 Gerald Ave	Soil Vapor	August 10, 2018 11:29 am	08/13/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.56	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
75-09-2	**Methylene chloride**	**6.2**		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
142-82-5	n-Heptane	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
110-54-3	**n-Hexane**	**11**		ug/m³	0.54	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
95-47-6	**o-Xylene**	**12**		ug/m³	0.67	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
179601-23-1	**p- & m- Xylenes**	**32**		ug/m³	1.3	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.76	1.546	EPA TO-15 Certifications:	08/16/2018 23:10	08/16/2018 23:10	LDS
115-07-1	*** Propylene**	**27**		ug/m³	0.27	1.546	EPA TO-15 Certifications:	08/16/2018 23:10	08/16/2018 23:10	LDS
100-42-5	Styrene	ND		ug/m³	0.66	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
127-18-4	**Tetrachloroethylene**	**35**		ug/m³	0.26	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
109-99-9	*** Tetrahydrofuran**	**6.2**		ug/m³	0.91	1.546	EPA TO-15 Certifications:	08/16/2018 23:10	08/16/2018 23:10	LDS
108-88-3	**Toluene**	**22**		ug/m³	0.58	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.61	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.70	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.21	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	0.87	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.54	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.68	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.099	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*100 %*	*70-130*

Analytical Batch Summary

Batch ID: BH80908 **Preparation Method:** EPA TO15 PREP **Prepared By:** LDS

YORK Sample ID	Client Sample ID	Preparation Date
18H0548-01	SV-1	08/16/18
18H0548-02	SV-2	08/16/18
18H0548-03	SV-3	08/16/18
18H0548-04	SV-4	08/16/18
BH80908-BLK1	Blank	08/16/18
BH80908-BS1	LCS	08/16/18

Batch ID: BH80989 **Preparation Method:** EPA TO15 PREP **Prepared By:** LDS

YORK Sample ID	Client Sample ID	Preparation Date
18H0548-01RE1	SV-1	08/17/18
18H0548-02RE1	SV-2	08/17/18
18H0548-03RE1	SV-3	08/17/18
BH80989-BLK1	Blank	08/17/18
BH80989-BS1	LCS	08/17/18

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80908 - EPA TO15 PREP											
Blank (BH80908-BLK1)								Prepared & Analyzed: 08/16/2018			
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.099	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.099	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								
n-Heptane	ND	0.41	"								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80908 - EPA TO15 PREP											
Blank (BH80908-BLK1)								Prepared & Analyzed: 08/16/2018			
n-Hexane	ND	0.35	ug/m³								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.17	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.064	"								
Surrogate: p-Bromofluorobenzene	*9.27*		*ppbv*	*10.0*		*92.7*	*70-130*				
LCS (BH80908-BS1)								Prepared & Analyzed: 08/16/2018			
1,1,1,2-Tetrachloroethane	9.65		ppbv	10.0		96.5	70-130				
1,1,1-Trichloroethane	10.0		"	10.0		100	70-130				
1,1,2,2-Tetrachloroethane	9.65		"	10.0		96.5	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2		"	10.0		102	70-130				
1,1,2-Trichloroethane	9.25		"	10.0		92.5	70-130				
1,1-Dichloroethane	9.97		"	10.0		99.7	70-130				
1,1-Dichloroethylene	9.01		"	10.0		90.1	70-130				
1,2,4-Trichlorobenzene	9.49		"	10.0		94.9	70-130				
1,2,4-Trimethylbenzene	9.60		"	10.0		96.0	70-130				
1,2-Dibromoethane	9.38		"	10.0		93.8	70-130				
1,2-Dichlorobenzene	10.4		"	10.0		104	70-130				
1,2-Dichloroethane	9.54		"	10.0		95.4	70-130				
1,2-Dichloropropane	8.93		"	10.0		89.3	70-130				
1,2-Dichlorotetrafluoroethane	12.7		"	10.0		127	70-130				
1,3,5-Trimethylbenzene	8.98		"	10.0		89.8	70-130				
1,3-Butadiene	15.8		"	10.0		158	70-130	High Bias			
1,3-Dichlorobenzene	10.8		"	10.0		108	70-130				
1,3-Dichloropropane	8.92		"	10.0		89.2	70-130				
1,4-Dichlorobenzene	11.0		"	10.0		110	70-130				
1,4-Dioxane	8.45		"	10.0		84.5	70-130				
2-Butanone	9.45		"	10.0		94.5	70-130				
2-Hexanone	9.72		"	10.0		97.2	70-130				
3-Chloropropene	9.31		"	10.0		93.1	70-130				
4-Methyl-2-pentanone	9.10		"	10.0		91.0	70-130				
Acetone	8.94		"	10.0		89.4	70-130				
Acrylonitrile	10.4		"	10.0		104	70-130				
Benzene	9.60		"	10.0		96.0	70-130				
Benzyl chloride	10.4		"	10.0		104	70-130				
Bromodichloromethane	9.24		"	10.0		92.4	70-130				
Bromoform	10.2		"	10.0		102	70-130				
Bromomethane	9.77		"	10.0		97.7	70-130				
Carbon disulfide	10.9		"	10.0		109	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80908 - EPA TO15 PREP											
LCS (BH80908-BS1)							Prepared & Analyzed: 08/16/2018				
Carbon tetrachloride	9.10		ppbv	10.0		91.0	70-130				
Chlorobenzene	9.93		"	10.0		99.3	70-130				
Chloroethane	11.5		"	10.0		115	70-130				
Chloroform	9.92		"	10.0		99.2	70-130				
Chloromethane	13.4		"	10.0		134	70-130	High Bias			
cis-1,2-Dichloroethylene	9.39		"	10.0		93.9	70-130				
cis-1,3-Dichloropropylene	9.32		"	10.0		93.2	70-130				
Cyclohexane	10.1		"	10.0		101	70-130				
Dibromochloromethane	9.30		"	10.0		93.0	70-130				
Dichlorodifluoromethane	9.75		"	10.0		97.5	70-130				
Ethyl acetate	9.65		"	10.0		96.5	70-130				
Ethyl Benzene	9.22		"	10.0		92.2	70-130				
Hexachlorobutadiene	9.36		"	10.0		93.6	70-130				
Isopropanol	11.0		"	10.0		110	70-130				
Methyl Methacrylate	9.22		"	10.0		92.2	70-130				
Methyl tert-butyl ether (MTBE)	17.7		"	10.0		177	70-130	High Bias			
Methylene chloride	9.90		"	10.0		99.0	70-130				
n-Heptane	9.30		"	10.0		93.0	70-130				
n-Hexane	10.2		"	10.0		102	70-130				
o-Xylene	8.89		"	10.0		88.9	70-130				
p- & m- Xylenes	18.7		"	20.0		93.4	70-130				
p-Ethyltoluene	10.0		"	10.0		100	70-130				
Propylene	9.13		"	10.0		91.3	70-130				
Styrene	10.1		"	10.0		101	70-130				
Tetrachloroethylene	9.95		"	10.0		99.5	70-130				
Tetrahydrofuran	9.53		"	10.0		95.3	70-130				
Toluene	8.92		"	10.0		89.2	70-130				
trans-1,2-Dichloroethylene	10.4		"	10.0		104	70-130				
trans-1,3-Dichloropropylene	8.93		"	10.0		89.3	70-130				
Trichloroethylene	8.47		"	10.0		84.7	70-130				
Trichlorofluoromethane (Freon 11)	9.89		"	10.0		98.9	70-130				
Vinyl acetate	14.4		"	10.0		144	70-130	High Bias			
Vinyl bromide	10.8		"	10.0		108	70-130				
Vinyl Chloride	13.0		"	10.0		130	70-130				
Surrogate: p-Bromofluorobenzene	*10.3*		*"*	*10.0*		*103*	*70-130*				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80989 - EPA TO15 PREP											
Blank (BH80989-BLK1)								Prepared & Analyzed: 08/17/2018			
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.099	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.099	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								
n-Heptane	ND	0.41	"								
n-Hexane	ND	0.35	"								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80989 - EPA TO15 PREP											
Blank (BH80989-BLK1)								Prepared & Analyzed: 08/17/2018			
o-Xylene	ND	0.43	ug/m³								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.17	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.064	"								
Surrogate: p-Bromofluorobenzene	*9.01*		*ppbv*	*10.0*		*90.1*	*70-130*				
LCS (BH80989-BS1)								Prepared & Analyzed: 08/17/2018			
1,1,1,2-Tetrachloroethane	9.41		ppbv	10.0		94.1	70-130				
1,1,1-Trichloroethane	9.89		"	10.0		98.9	70-130				
1,1,2,2-Tetrachloroethane	9.43		"	10.0		94.3	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2		"	10.0		102	70-130				
1,1,2-Trichloroethane	9.14		"	10.0		91.4	70-130				
1,1-Dichloroethane	9.87		"	10.0		98.7	70-130				
1,1-Dichloroethylene	8.93		"	10.0		89.3	70-130				
1,2,4-Trichlorobenzene	9.12		"	10.0		91.2	70-130				
1,2,4-Trimethylbenzene	9.37		"	10.0		93.7	70-130				
1,2-Dibromoethane	9.20		"	10.0		92.0	70-130				
1,2-Dichlorobenzene	10.2		"	10.0		102	70-130				
1,2-Dichloroethane	9.45		"	10.0		94.5	70-130				
1,2-Dichloropropane	8.83		"	10.0		88.3	70-130				
1,2-Dichlorotetrafluoroethane	12.5		"	10.0		125	70-130				
1,3,5-Trimethylbenzene	8.67		"	10.0		86.7	70-130				
1,3-Butadiene	14.2		"	10.0		142	70-130	High Bias			
1,3-Dichlorobenzene	10.6		"	10.0		106	70-130				
1,3-Dichloropropane	8.76		"	10.0		87.6	70-130				
1,4-Dichlorobenzene	10.8		"	10.0		108	70-130				
1,4-Dioxane	8.32		"	10.0		83.2	70-130				
2-Butanone	9.36		"	10.0		93.6	70-130				
2-Hexanone	9.53		"	10.0		95.3	70-130				
3-Chloropropene	9.23		"	10.0		92.3	70-130				
4-Methyl-2-pentanone	8.90		"	10.0		89.0	70-130				
Acetone	8.83		"	10.0		88.3	70-130				
Acrylonitrile	10.4		"	10.0		104	70-130				
Benzene	9.51		"	10.0		95.1	70-130				
Benzyl chloride	10.0		"	10.0		100	70-130				
Bromodichloromethane	9.09		"	10.0		90.9	70-130				
Bromoform	9.95		"	10.0		99.5	70-130				
Bromomethane	9.73		"	10.0		97.3	70-130				
Carbon disulfide	10.9		"	10.0		109	70-130				
Carbon tetrachloride	8.96		"	10.0		89.6	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80989 - EPA TO15 PREP											
LCS (BH80989-BS1)								Prepared & Analyzed: 08/17/2018			
Chlorobenzene	9.62		ppbv	10.0		96.2	70-130				
Chloroethane	11.3		"	10.0		113	70-130				
Chloroform	9.88		"	10.0		98.8	70-130				
Chloromethane	11.9		"	10.0		119	70-130				
cis-1,2-Dichloroethylene	9.21		"	10.0		92.1	70-130				
cis-1,3-Dichloropropylene	9.20		"	10.0		92.0	70-130				
Cyclohexane	9.92		"	10.0		99.2	70-130				
Dibromochloromethane	9.14		"	10.0		91.4	70-130				
Dichlorodifluoromethane	9.85		"	10.0		98.5	70-130				
Ethyl acetate	9.59		"	10.0		95.9	70-130				
Ethyl Benzene	8.97		"	10.0		89.7	70-130				
Hexachlorobutadiene	9.20		"	10.0		92.0	70-130				
Isopropanol	11.0		"	10.0		110	70-130				
Methyl Methacrylate	9.04		"	10.0		90.4	70-130				
Methyl tert-butyl ether (MTBE)	17.5		"	10.0		175	70-130	High Bias			
Methylene chloride	9.86		"	10.0		98.6	70-130				
n-Heptane	9.17		"	10.0		91.7	70-130				
n-Hexane	10.0		"	10.0		100	70-130				
o-Xylene	8.66		"	10.0		86.6	70-130				
p- & m- Xylenes	18.1		"	20.0		90.5	70-130				
p-Ethyltoluene	9.81		"	10.0		98.1	70-130				
Propylene	9.24		"	10.0		92.4	70-130				
Styrene	9.86		"	10.0		98.6	70-130				
Tetrachloroethylene	9.91		"	10.0		99.1	70-130				
Tetrahydrofuran	9.48		"	10.0		94.8	70-130				
Toluene	8.88		"	10.0		88.8	70-130				
trans-1,2-Dichloroethylene	10.2		"	10.0		102	70-130				
trans-1,3-Dichloropropylene	8.75		"	10.0		87.5	70-130				
Trichloroethylene	8.31		"	10.0		83.1	70-130				
Trichlorofluoromethane (Freon 11)	9.78		"	10.0		97.8	70-130				
Vinyl acetate	14.2		"	10.0		142	70-130	High Bias			
Vinyl bromide	10.6		"	10.0		106	70-130				
Vinyl Chloride	11.7		"	10.0		117	70-130				
Surrogate: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*70-130*				

Sample and Data Qualifiers Relating to This Work Order

QL-03	This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
CCV-A	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>30% Difference for average Rf). This applies to dectected analytes only.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

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

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

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YORK

Field Chain-of-Custody Record - AIR

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 18H0548

Page ____ of ____

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: GEI Consultants	Company:	Company: Same		RUSH - Next Day
Address: 110 West Whitman Rd Huntington Station, NY	Address:	Address: Same		RUSH - Two Day
Phone: 631-760-9300	Phone:	Phone: Same	YOUR Project Name: 580-Gerard Ave	RUSH - Three Day
Contact: William J Fitchett	Contact: Wendy Monterosso	Contact: (Same)		RUSH - Four Day
E-mail: wfitchett@geiconsultants.com	E-mail: wmonterosso@geiconsultants.com	E-mail: Same	YOUR PO#:	Standard (5-7 Day) ✓

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

William J. Fitchett

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

WJF

Air Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
AI - Indoor Ambient Air	New York ✓	Summary Report	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)
AO - Outdoor Amb. Air	New Jersey	QA Report	CT RCP DQA/DUE	EQuIS (Standard)	
AE - Vapor Extraction Well/ Process Gas/Effluent	Connecticut	NY ASP A Package	NJDEP Reduced Deliv.	NYSDEC EQuIS	
AS - Soil Vapor/Sub-Slab	Pennsylvania	NY ASP B Package	NJDKQP	NJDEP SRP HazSite	
	Other	Other:			

Certified Canisters: Batch ___ Individual ___

Please enter the following REQUIRED Field Data

Reporting Units: ug/m³ ___ ppbv ___ ppmv ___

Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
SV-1	8/10/18 915-1435	AS	-30.0	-7.0	15529	06872	VOCs via TO-15
SV-2	8/10/18 937-1128	AS	-28.0	-5.0	23195	07083	↓
SV-3	8/10/18 928-1102	AS	-27.0	-5.0	12294	05414	↓
SV-4	8/10/18 932-1129	AS	-29.0	-5.0	28850	96869	↓

Comments:

Detection Limits Required: ≤ 1 ug/m³ ____ NYSDEC V1 Limits ____ Routine Survey ____ Other ____

Sampling Media: 6 Liter Canister ☐ Tedlar Bag ☐

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
WJF GEI	8/13/18 1025AM	KBah	8/13/18 1025AM	KBah	8/13/18
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
[illegible]	8/13/18 8AM				
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				[illegible]	8-13-18 2000

GEI Consultants

Consulting
Engineers and
Scientists

Phase I Environmental

Site Assessment

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Richmond, Virginia 23219

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September 2018
Project 1803080

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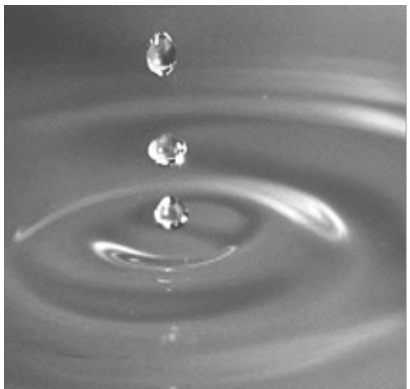

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Executive Summary

GEI Consultants, Inc., P. C. (GEI) conducted a Phase I Environmental Site Assessment (ESA) on behalf of Hunton Andrews Kurth LLP, at 580-610 Gerard Avenue, New York. This site is identified in this report as the "project site."

It should be noted that previous Phase I ESA Reports were completed in January 2011 and December 2015, and a Phase II ESA completed in September 2018 for the project site. The 2011 Phase I ESA was performed by EEA, Inc. for Sam Schwartz Engineering of New York, New York on behalf of EMMES Asset Management Company Ltd., LLC. The December 2015 Phase I ESA and the 2018 Phase II ESA were conducted by GEI. Compared to the findings within the Phase I ESA performed for this site in January 2011 by EEA, Inc. and December 2015 by GEI, no significant changes to the building had been identified.

The project site was occupied by a single-story garage building. The subject building, which measures approximately 31,200 square feet in area, primarily covers the project site, with the exception of a 3-foot path on the east side of the building. The building is currently vacant and was most recently utilized as a furniture warehouse. No visible indications of on-site waste disposal of toxic and/or hazardous materials were observed at the time of inspection. No operations involving the use of toxic or hazardous materials were present on the project site at the time of the site assessment.

GEI's analysis of historical information indicated the subject building on the project site was constructed circa 1950 for use as a vehicle maintenance and storage facility for the U.S. Post Office until circa 2001. From circa 2001 through 2007, the building was utilized for automotive service, vehicle repair, and parking. After 2007, the project site was occupied by a construction company for general office use and storage until circa 2010 when it was vacated.

The objective of this assessment was to evaluate the property for evidence of recognized environmental conditions (RECs). A *recognized environmental condition* is defined in ASTM E1527-13 as "the presence or likely presence of any hazardous substances or petroleum products in, on or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimus conditions are not recognized environmental conditions." Based upon the findings of this report, the following RECs are summarized as follows:

- Based on the evaluation of readily available information obtained during this Phase I ESA, according to the scope and limitations as defined in the Phase I ESA, and GEI's professional judgment, RECs were identified that could be attributed to past and

present occupants or uses associated with the subject property. These RECs include underground gasoline tanks, underground fuel oil tanks, hydraulic lifts, and floor drains

- Additionally, as part of a zoning change or action, the City of New York (NYC) Department of City Planning and City Council has labeled the project site as part of an E-Designated area of New York City. An E-Designation is a NYC zoning map designation that indicates the presence of an environmental requirement pertaining to potential Hazardous Material Contamination, Window/Wall Noise Attenuation, or Air Quality impacts on a particular tax lot. These environmental requirements are administrated by the NYC Office of Environmental Remediation (OER).

  On May 22, 2013, this site had been assigned E-Number, E-292, and is described as being classified under the Hazardous Materials Phase I and Phase II Testing Protocols.

See Section 9.0 for detailed information regarding the above summarized RECs.

A *historical recognized environmental condition* (HREC) is defined as "a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)."

- HRECs were identified in connection with three closed New York State Department of Environmental Conservation (NYSDEC) Spill Incidents associated with the project site.

See section 9.0 for detailed information regarding these HRECs.

Controlled Recognized Environmental Conditions (CRECs) are those RECs that have been addressed to the satisfaction of the regulatory agency but require the ongoing use of engineering or institutional controls in order to remain in compliance.

- No CRECs were identified during this assessment.

*None ASTM Scope Consideration*s pertaining to suspected asbestos-containing materials and lead-based painted surfaces were noted within the subject building.

1. Introduction

1.1 Purpose

GEI Consultants, Inc., P. C. (GEI) has prepared this Phase I Environmental Site Assessment (ESA) Report, in compliance with the scope and limitations of ASTM International (ASTM) Standard Practice E 1527-13. GEI declares that to the best of our knowledge and belief, we meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312, and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the project site. Furthermore, GEI has developed and performed all appropriate inquiry (AAI) in conformance with the standards and practices set forth in 40 CFR Part 312. Copies of the resumes for the personnel who participated in the preparation of this report can be found in **Appendix A**.

The goal of the Phase I ESA is to identify "Recognized Environmental Conditions" (RECs). A *recognized environmental condition* is defined in ASTM E1527-13 as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimus conditions are not recognized environmental conditions."

An evaluation of business environmental risk associated with the parcels of land may necessitate investigation beyond that identified in this practice. Additional site investigations that may be required based on the findings and conclusions of the Phase I ESA are not necessary and have not been included with this report.

This Phase I ESA provides information regarding the potential presence of hazardous substances or petroleum products for the parcel of land denoted as Block 2353, Lot 1 at 580-610 Gerard Avenue, Bronx, New York, and will be referred to in this report as the "project site."

GEI was retained by Mr. Dan J. Jordanger of Hunton Andrews Kurth LLP to prepare this Phase I ESA of the project site.

The scope of the Phase I ESA was as follows:

- Conduct a municipal, state, and federal database and regulatory file review of the property and relevant adjoining properties;
- Assess potential environmental receptors (i.e., groundwater, surface water, and water supplies);

- Describe site geology;
- Perform site reconnaissance to assess visible signs of potential environmental impairment;
- Summarize the findings relative to the potential presence of hazardous substances or petroleum products at the project site; and
- Recommend additional investigations at the project site, if necessary.

1.2 Limitations and Exceptions

This Phase I ESA was prepared in accordance with GEI's proposal dated August 8, 2018. The scope of services did not include the assessment of considerations not within the scope of the ASTM Phase I ESA standard (i.e., non-scope considerations). These include Lead in Drinking Water, Wetlands, Regulatory Compliance, Cultural and Historic Risks, Industrial Hygiene, Health and Safety, Ecological Resources, Endangered Species, Indoor Air Quality, Biological Agents, and High Voltage Power Lines.

1.3 Data Gaps

No significant data gaps impacting GEI's ability to identify RECs or impact the conclusions of this Phase I ESA were identified.

1.4 Background

According to the New York City Department of Buildings (NYCDOB), the project site parcel is listed as Block 2353, Lot 1. The project site covers 31,200 square feet and is in a residentially zoned area of the Bronx, New York. The project site is located on the northeastern corner at the intersection of Gerard Avenue and East 150th Street. Its location is shown on **Figure 1** – Site Location Map and **Figure 2** – 1996 Sanborn Map.

It should be noted that previous Phase I ESA Reports were completed in January 2011 and December 2015, and a Phase II ESA completed in September 2018 for the project site. The 2011 Phase I ESA was performed by EEA, Inc. for Sam Schwartz Engineering of New York, New York on behalf of EMMES Asset Management Company Ltd., LLC. The December 2015 Phase I ESA and the 2018 Phase II ESA were conducted by GEI. Compared to the findings within the Phase I ESA performed for this site in January 2011 by EEA, Inc. and December 2015 by GEI, no significant changes to the building had been identified.

1.4.1 Property Ownership

According to Ms. Sarah Grise, the project site is owned by NRP LLC I.

1.4.2 Adjacent Land Use

Adjacent land use is an important consideration in the evaluation of property conditions, given that the groundwater and surface water flow create possible pathways for contaminant migration. The area surrounding the project site consists of residential, industrial, and commercial properties. Adjacent land use is as follows:

- North: Single-story warehouse/garage building
- West (across Gerard Avenue): Two-story mixed-use building used as a storage facility and its associated parking lot
- South (across 150th Street): Single-story warehouse/garage building
- East: A small garage and residential buildings

1.4.3 Site Improvements

At the time of GEI's site inspection, the project site was occupied by a single-story garage building. The subject building, which measures approximately 31,200 square feet in area, primarily covers the project site, with the exception of a 3-foot path on the east side of the building.

The subject building has a cement floor and the walls are cement as well. There is a small basement that contains the boiler system located along the Gerard Avenue side of the building.

Utilities supplied to the subject building include, electric, and sewer services. There was no hot water or heat in the building.

Within the building were three concrete block structures/offices. The smallest of the three was located within the northeastern quadrant of the building. It was completely vacant and had an exhaust/ventilation pipe leading up through the roof. This could have been utilized for the storage of flammables. The concrete block office area on the eastern side of the building was also completely vacant and may have been utilized for parts and equipment storage. The concrete block office area on the west side of the building appeared to contain office space, bathrooms/locker rooms, etc.

Finally, consistent with the findings within the Phase I ESA performed for this site in January 2011, by EEA, Inc. and the 2015 Phase I ESA performed by GEI, no significant changes to the building had been identified.

2. User-Provided Information

"User" is defined in ASTM E1527-13 as *"the party seeking to use Practice E1527 to complete an environmental site assessment of the property. A user may include, without limitation, a potential purchaser of the property, a potential tenant of the property, an owner of the property, a lender, or property manager."* ASTM E1527-13 further describes that according to the "All Appropriate Inquiries" Final Rule (40 CFR Part 312) that tasks be performed "by or on behalf of a party seeking to qualify for Limited Liability Protection (LLP) to Comprehensive Environmental Response, Compensation, and Liability (CERCLA) liability." Additionally, that the environmental professional conducting the Phase I ESA shall request that the user provide results to tasks detailed in ASTM E1527-13 Section 6, *"as such information can assist the environmental professional in identifying recognized environmental conditions"* associated with the project site.

Based upon the above, a User Questionnaire was completed by Ms. Sarah Dinkel, for characterizing relative environmental risks for commercial purposes, as part of a client's regulatory requirement for conducting AAI to support any one of the three legal defenses against CERCLA liability, or other stated purposes (**Appendix B**). The following pertinent information is documented within this Questionnaire.

- Ms. Dinkel stated that the purpose of this Phase I ESA is to be able to provide it to any potential buyers.
- Ms. Dinkel stated that to the best of her knowledge, she is unaware of any environmental cleanup liens against the project site that is filed or recorded under federal, tribal, state, or local law. In addition, Ms. Dinkel is unaware of any Activities and Use Limitations (AULs), such as engineering controls, land use restrictions or institutional controls that are in place at the project site and/or have been filed or recorded in a registry under federal, tribal, state, or local law.
- Ms. Dinkel stated she does not have any specialized knowledge or experience with regard to any chemicals and/or processes used by current occupants of the project site or adjoining properties. Ms. Dinkel stated she has no knowledge with regard to the following items on the project site: specific chemicals that are present or once were present, on-site spills or other chemical releases, or environmental cleanups that have taken place. Additionally, Ms. Dinkel stated that based on her knowledge and experience related to the project site, there are no obvious indicators that point to the presence or likely presence of contamination at the project site.

3. Site History

Primary sources for the history of New York City (NYC) sites include historical fire insurance/real estate atlases, as well as the available records of the NYCDOB concerning permits for new buildings, certificates of occupancy, alterations, demolitions, and other changes at the project site and address directories.

3.1 Historical Maps

Historical Sanborn fire insurance maps (1908, 1935, 1946, 1951, 1981, and 1996) were reviewed (**Appendix C**). These atlases are another source for the history of structures on the project site and may indicate property use and the presence of buried gasoline tanks. Supplemental information regarding historical building occupants and property use were provided through review of available NYCDOB database records for the project site.

Year of Historical Sanborn Maps	Property Use
1908, 1935, and 1946	These maps depict the project site to be undeveloped.
1951	This map depicts the current building on the project site as being constructed in 1950, as a Post Office Garage.
1981 and 1996	These maps depict the same characteristics as on the previous 1950 map.

3.2 Building Department Information

GEI reviewed readily available information relating to the project site supplied by the NYCDOB, Building Information Search website and is described as follows:

Block and Lot	Associated Address	Building Department Information
Block 2353, Lot 1	586 Gerard Avenue & 121 East 150th Street	The addresses that are depicted under this Block and Lot number are 125 East 150th Street and 586 and 610 Gerard Avenue. All are associated with Building Identification Numbers 2805204 and 2809357. New York City Department of Finance Classification is listed as garage and gas station (G2). Zoning for the project site is listed as Residential (R7A with a commercial overlay [C2-4]). A New Building Permit (NB 944-49) is on file for the subject property under BIN #2805204. It is believed this permit was issued for the initial construction of the subject building. However, a valid Certificate of Occupancy (CO) document for the successful completion of the subject building was not included within the property database file. Additionally, there were no earlier records on file pertaining to this BIN. CO ALT No. 200693213 issued December 5, 2008 documented the following building use: Cellar - Boiler room; First Floor – Auto Mechanic and Auto Repair Shop. In conjunction with this CO, the Fire Department of the City of New York (FDNY) approved the installation of an oil burner, fire equipment and combustible storage

Additionally, since the original Phase I ESA was performed in 2011, as part of a zoning change or action, the City of New York Department of City Planning and City Council has labeled the project site as part of an E-Designated area of NYC. An E-Designation is a NYC zoning map designation that indicates the presence of an environmental requirement pertaining to potential Hazardous Material Contamination, Window/Wall Noise Attenuation, or Air Quality impacts on a particular tax lot. These environmental requirements are administrated by the NYC Office of Environmental Remediation (OER).

On May 22, 2013, this site had been assigned E-Number, E-292, and is described as being classified under the Hazardous Materials Phase I and Phase II Testing Protocols.

3.3 Reverse Address Directory Information

Given the known historical uses of the project site, no reverse address directory information was obtained as part of this assessment.

3.4 Historical Information from 2011 and 2015 Phase I ESAs

During the EEA Phase I ESA performed in 2011, an interview was performed with Mr. Jonathan Ratner, who was one of the owners at that time. According to information provided by Mr. Ratner, the subject building had been utilized as the vehicle maintenance facility for the US Postal Service until they vacated the building in May 2001. From August 2001 through August 2006, the site was occupied by Autorama Parking Industries, Inc., and was utilized for storage, service, and repair of automotive vehicles. From September 2006 through December 2007, the building was utilized as a parking lot and from January 2010 through January 2011, the building had been occupied by Turner Construction for general office use and storage.

3.5 Internet Information

GEI reviewed the historical photographs of the building depicted on Google Maps for various years between 2007 and 2014. The 2007, 2009, 2011, and 2014 street view photographs of the building indicate the same building and there was no signage depicting an occupant.

3.6 Summary of Site History

GEI's analysis of historical information indicated the subject building on the project site was constructed circa 1950 for use as a vehicle maintenance and storage facility for the U.S. Post Office until circa 2001. From circa 2001 through 2007, the building was utilized for automotive service, vehicle repair and parking. After 2007, the project site was occupied by a construction company for general office use and storage.

Based on the specific nature of the identified operations, with the exception of the office and storage use, the historical businesses identified involve the storage and use of hazardous substances and/or petroleum products, and/or generate hazardous and petroleum wastes.

3.7 Summary of Historical Use for Adjoining Properties

Surrounding properties consisted of residential buildings with some having neighborhood grocery stores, retail businesses, and offices. Additionally, there were industrial warehouse type buildings to the west and south of the project site. No gasoline or major manufacturing facilities were identified.

3.8 Previous Environmental Reports

As stated earlier in this report, previous Phase I ESA Reports were completed in January 2011 by EEA, Inc. and in 2015 by GEI. The 2011 Phase I ESA was performed for Sam Schwartz Engineering of New York, New York on behalf of EMMES Asset Management Company Ltd., LLC and the 2015 Phase I ESA was prepared on behalf of EMMES Asset Management Company Ltd. LLC.

The conclusions of these reports revealed that similar RECs were identified that pertained to gasoline storage tanks, hydraulic lift units, a fuel oil storage tank, and interior floor drains.

A Phase II ESA was performed by GEI in September 2018. Details on the findings of the Phase II Subsurface Investigation report are found in **(Appendix D)**.

4. Physical Setting

4.1 Topography

The project site is mapped on the Central Park Quad, New York topographic map (**Figure 1**). The general elevation for the area where the project site is located is depicted as approximately 25-35 feet above mean sea level.

From observations made during GEI's site assessment, as well as information obtained from the topographic map, the topography of the project site, as well as the surrounding area, slopes generally in a southwesterly direction.

4.2 Flood Plain Information

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (#3604970083F), the project site falls within Zone X, which is an area outside a flood zone.

4.3 Site Drainage

The project site was visually checked for the presence of drainage structures, which may provide routes for hazardous substance or petroleum product migration to surface soils or sewer systems.

Interior floor drains were observed in the floor throughout the building. Given that this building was constructed in the 1950s, it is likely that these drains discharge to the municipal sewer system. No exterior storm drains were noted at the time of GEI's site visit.

4.4 Monitoring/Observation Wells

No monitoring/observation wells were observed on the project site at the time of GEI's site inspection.

4.5 Groundwater Flow

Groundwater flow direction often coincides with surface topography. However, flow is also influenced by aquifer type, depth to bedrock, waterways near the site, groundwater use, and subsurface structures. Generally, groundwater flows from topographic high points to low points. Based on the topography of the project site and vicinity, local groundwater flow is inferred to be in a southerly direction.

4.6 Site Hydrogeology

The Bronx is underlain by three principal bedrock formations: Inwood Marble, Fordham Gneiss, and Manhattan Schist. The strata of these rock types have been folded by forces produced by movements in the earth's crust, and the resulting pattern has produced a series of ridges and valleys. The rock of Inwood Marble is soluble in even slightly acidic water and has been eroded through time to form lowlands and valleys, including the channel of the Harlem River. Further erosion of the marble, as well as the schist and gneiss occurred later in time, as the surface of rock in New York City was covered by massive glaciers. Besides the erosion that they produce, the glaciers transported broken-up rock fragments from areas to the north and deposited them in many areas of the Bronx. Meltwater streams produced by the glaciers occupied the valleys of Inwood Marble, and they in turn produced outwash sand deposits. These permeable deposits, in combination with solutional fractures present in the limestone, account for the ability of the areas underlain by Inwood Marble to yield significant quantities of groundwater.

Recharge of groundwater in the Bronx is chiefly from precipitation. Possible secondary sources include lateral underground flow from Westchester County, as well as leakage from water mains and sewer lines. Areas of the Bronx, in which clay deposits from former glacial lake beds formed marshes, may contain minor quantities of groundwater, which do not readily percolate downward due to the impermeability of these materials. The schist and gneiss are also relatively impermeable and have historically yielded relatively minor quantities of water to wells. Uses of groundwater in the Bronx, other than for domestic purposes, have included water withdrawals of cooling, air conditioning, washing and flushing, and laundering. Today, public water supply for the Bronx comes from the upstate reservoirs which supply the City of New York.

4.7 Water Supply

Potable water for the project site is provided by the City of New York. No on-site water supply wells were observed.

5. Environmental Records Review

GEI obtained and evaluated the readily available and most recent environmental regulatory agency database records provided by Toxics Targeting, Inc. of Ithaca, New York (**Appendix E**). This report was designed to assist parties seeking to meet the search requirements of the ASTM Standard Practice for Environmental Site Assessments (E 1527-13).

GEI's review of available and most recent federal and state agency database records for the project site, adjacent/contiguous properties, and surrounding neighborhood was completed according to the requirements set forth in ASTM E 1527-13, Section 8. The search distances reviewed for this assessment generally meet or exceed the minimum search distances according to the requirements set forth in ASTM E 1527-13, Section 8.2.1. Any deviations from the minimum search distances are addressed in the individual database discussions presented below.

Federal Regulatory Database Search

NPL Sites

The United States Environmental Protection Agency (USEPA) National Priorities List (NPL) identifies confirmed hazardous waste sites that are ranked for clean-up under the federal Superfund program. This program was authorized by the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 ("CERCLA" or "Superfund"), as amended by Superfund Amendments and Reauthorization Act of 1986 ("SARA") and Small Business Liability Relief and Brownfields Revitalization Act of 2002 ("Brownfields Amendments").

The project site was not identified within this database. There were no USEPA NPL sites identified within an approximate 1-mile radius of the project site.

CERCLIS

The USEPA CERCLA Information System (CERCLIS), which is a comprehensive database and management system that inventories, and tracks sites addressed or needing to be addressed by the Superfund program. Sites that USEPA decides do not warrant further evaluation are given a "No Further Remedial Action Planned (NFRAP)" designation by USEPA, which means that no further action under CERCLA is presently anticipated for that site. A "NFRAP" designation does not necessarily indicate that there is no hazard associated with the site only that, based on available information, USEPA does not plan further investigation at this time.

The project site was not identified within this database. There were no USEPA CERCLIS sites identified within an approximate 1/2-mile radius of the project site.

RCRA Corrective Action Activity

The Resource Conservation and Recovery Act (RCRA) Corrective Action Activity (CORRACTS) database lists hazardous waste facilities with RCRA corrective action activity reported by the USEPA.

The project site was not identified within this database. There were no RCRA CORRACTS sites identified within an approximate 1-mile radius of the project site.

RCRA Treatment/Storage/Disposal Facilities

The RCRA Treatment/Storage/Disposal Facilities (TSDF) database includes facilities that treat, store, and/or dispose of hazardous wastes, or have engaged in these activities in the past. TSDF operators, as with hazardous waste transporters and generators, are regulated under the RCRA.

The project site was not identified within this database. There was one RCRA TSDF site identified within an approximate 1/2-mile radius of the project site described as follows:

- Power Chemical Co., Inc. 387 Rider Avenue, Bronx, New York (RCRA Facility ID NYD001549633). This site is listed as a TSDF. Hazardous waste activity was reported in 1982 and was associated with 501 gallons of spent halogenated solvents used in degreasing. No other waste activity was listed.

Given that this TSDF is located over 1/2-mile from the project site, it is deemed unlikely that it would have impacted the environmental integrity of the project site.

RCRA Hazardous Waste Generators and Transporters

RCRA Hazardous Waste Generators and Transporters are regulated by the federal government under the RCRA. RCRA facilities are permitted by the USEPA, RCRA Division, to generate hazardous waste as part of business operations and dispose of the waste legally. These facilities generally abide by USEPA regulations for storage, handling and disposal of hazardous materials. RCRA Hazardous Waste Generator and Transporter sites are not permitted to store any hazardous wastes at any time for more than 90 days, reducing the potential risk of a spill. A review of the Hazardous Waste Generator and Transporter listings is useful to assess the kinds of hazardous materials/wastes that are handled, stored, and/or transported in the vicinity of the project site, as well as on the project site. With the exception of those identified on, or adjacent/contiguous to the project site, the presence of hazardous waste generators or transporters in the immediate vicinity does not necessarily imply risk of contamination to the project site.

The project site was identified within this database and is as follows:

- U.S. Postal Service – VMF, 580 Gerard Avenue, (RCRA Facility ID NY5180010451). No hazardous waste activity was listed by New York State for this RCRA Facility.
- United States Post Office, 580 Gerard Avenue, (RCRA Facility ID NYD982727885). The site is listed as a small quantity generator. From 1992 until 2009 varying amounts and types of wastes have been generated and disposed of from the project site under this Facility ID Number.
- Autorama Enterprises of Bronx, 610 Gerard Avenue, RCRA Facility ID (NYR000100255). No hazardous waste activity was listed by New York State for this RCRA Facility.

One (1) adjacent/contiguous property was identified within the RCRA Hazardous Waste Generator & Transporter database: DGI Transport Corporation, 586 River Avenue, Bronx, New York (RCRA Facility ID NYN30003A415). No hazardous waste activity was listed by New York State for this RCRA Facility as of September 9, 2010.

It also should be noted that numerous Consolidated Edison (Con Ed) RCRA Hazardous Waste Generator & Transporter database listings are reported in close proximity to the project site. However, these are typically one-time listings in conjunction with repairs and/or replacement of electrical equipment located within utility manholes beneath the Gerard Avenue and East 150th Street roadway.

Civil and Administrative Enforcement Docket

USEPA's Civil and Administrative Enforcement Docket is a database that tracks civil judiciary cases filed on behalf of USEPA by the U.S. Department of Justice.

The project site and adjacent properties were not identified within this database. There were two Civil and Administrative Enforcement Docket sites identified within an approximate 1/8-mile radius of the project site. However, based upon the information depicted and the distance from the project site, these sites are not expected to represent a significant environmental concern.

Emergency Response Notification System

USEPA's Emergency Response Notification System (ERNS) database contains information from federal agencies on CERCLA hazardous substance releases or spills in quantities greater than the reportable quantity.

The project site was not identified within this database.

New York State Regulatory Database Search

Inactive Hazardous Waste Disposal Sites

New York State Department of Environmental Conservation (NYSDEC) Inactive Hazardous Waste Disposal Site Registry contains information concerning potentially hazardous waste sites in New York State. The list of NYSDEC Inactive Hazardous Waste Disposal (IHWD) Sites contains summary information pertaining to those facilities that are deemed hazardous and requiring response actions regulated by the NYSDEC under the State's Superfund Program.

The project site is not identified in the database. Eight NYSDEC IHWD sites were identified within an approximate 1-mile radius of the project site. However, all of these sites are located over an approximate 1/4-mile radius from the project site. Given the distance from the project site, it is GEI's opinion that these IHWD sites are deemed unlikely to have the potential to impact the environmental integrity of the project site.

Hazardous Substance Waste Disposal Sites

NYSDEC maintains a database of waste disposal sites that may pose threats to public health or the environment but cannot be remediated using monies from the Hazards Waste Remediation Fund.

The project site is not listed in this database. There were no NYSDEC Hazardous Substance Waste Disposal sites identified within an approximate 1/2-mile radius of the project site.

Brownfields Sites

The New York State Brownfields database is a listing of sites that are abandoned, idled or under-used industrial and commercial sites in New York State, where expansion or redevelopment is complicated by real or perceived environmental contamination.

The project site is not listed on this database. Fourteen New York State Brownfield sites were identified within an approximate 1-mile radius of the project site. All fourteen of these sites are located over an approximate 1/8-mile radius from the project site and based upon the relative distance, status and/or the assumed direction of groundwater flow, these sites are not expected to have the potential to impact the environmental integrity of the project site.

Solid Waste Facilities

A check was made of the NYSDEC database of solid waste facilities (SWF), including, but not limited to, landfills, incinerators, transfer stations, and recycling centers.

The project site is not listed in the database. There were six NYSDEC SWF sites identified within an approximate 1/2-mile radius of the project site. However, based upon the relative distance, status and/or the assumed direction of groundwater flow, these sites are not expected to have the potential to impact the environmental integrity of the project site.

NYSDEC Spill Log Database

The NYSDEC maintains a database of spills of hazardous materials, including petroleum products, reported to the agency according to its regulatory requirements. Parties found responsible for these spills are required to respond by notifying the NYSDEC's Spill Hotline, obtain a Spill Number, and eliminate the source of the spill and perform the necessary cleanup of contamination in surface and subsurface soils and groundwater. The responsible party is required to report its response actions to an assigned NYSDEC case manager and meet the applicable NYSDEC cleanup criteria for the media impacted by the spill before the NYSDEC will render a determination of "no further action" and at such time, the NYSDEC will "close" the spill number. Spill numbers listed as "active" indicate that the spill incident is either still undergoing remediation or awaiting completion of paperwork for closure. The NYSDEC Spills database records spills of unknown substances, regulated chemicals, petroleum spills, and spills due to tank failures and tank tightness test failures.

The project site is depicted on this listing as follows:

- Closed Spill Incident Number 9007668 – This spill pertains to a tank test failure of a 3,000-gallon fuel oil tank that occurred on October 13, 1990. According to the NYSDEC comments, a 5,000-gallon fuel oil underground storage tanks (USTs) was removed and replaced with a 2,500-gallon UST in 1993. A subsurface investigation that was performed in 2000 showed no visual, olfactory, or photoionization detector (PID) Evidence of contamination/release. Soil analysis was non-detect for Volatile Organic Compounds (VOCs) and Poly Aromatic Hydrocarbon (PAHs) were consistent with obvious fill material (i.e., coal/asphalt). Groundwater was not encountered before bedrock which was at a depth of approximately 12-feet below ground surface. This spill incident was closed on May 11, 2001.

- Closed Spill Incident Number 9213223 – This spill incident is related to gasoline found during the excavation of gasoline tanks that occurred on February 27, 1993. This spill incident indicates that nine 550-gallon gasoline USTs were removed in 1993. Concurrently, 22 tons of contaminated soil had also been reportedly excavated and removed. Subsurface investigation indicated no visual or olfactory evidence of contamination. Soil analysis showed non-detect for VOCs and PAH levels were consistent with obvious fill material. Groundwater analysis showed non-detect/trace PAHs and VOCs. This spill incident was closed on May 11, 2001.

- Closed Spill Incident Number 1205845 – This spill occurred when it was reported that approximately two gallons of heating oil residual/staining was noted next to the fill port area on the east side of the building.

Based upon the characteristics, these spill incidents are not likely to have significantly impacted the environmental integrity of the project site.

In addition to the above, 186 NYSDEC spill incidents were identified within an approximate 1/2-mile radius of the subject property, of which 175 have been officially "closed" by NYSDEC. The remaining 11 spill incidents are still listed as "active" within the NYSDEC Spill Log database, the closest of which is located within approximately 792 feet south/southwest of the subject property (**Appendix E**). Upon review, due to such factors as the intervening development (e.g., roadways, gas and electrical conduits, underground sewer systems, basements of adjoining and nearby buildings, etc.) between the subject property and these spill incidents, the distances between the spill sources and the subject property, the quantities of materials spilled, and the resources affected, none of the 11 "active" spill incidents were deemed to have the potential to impact soils underlying the subject property.

Major Oil Storage Facilities

A check was made of the NYSDEC Major Oil Storage Facilities (MOSF) database, which lists all facilities (onshore facilities or vessels) with petroleum storage capacities of 400,000 gallons or greater.

The project site was not identified within this database. No NYSDEC MOSF sites were identified within an approximate 1/8-mile radius of the project site.

Petroleum Bulk Storage Facilities (PBS)

NYSDEC maintains registration records for facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. These facilities are documented within the NYSDEC PBS and FDNY databases.

The subject property was identified within this database as follows:

- Vehicle Maintenance Facility, 580 Gerard Street, Bronx, New York (NYSDEC Id: 2-333212) - This project site is listed as having had nine 550-gallon gasoline tanks. These tanks are depicted as being installed in 1950 and removed in 1993.

- 580 Gerard Avenue, Bronx, New York (NYSDEC Id: 2-476021) – In addition to the nine gasoline tanks, this PBS listing includes a 2,500-gallon underground fuel oil tank that was installed in 1993 and is showing as it is in-service. Additionally, there is a listing of a 5,000-gallon UST; however, this tank is depicted as either deleted from the reported data or the number was re-assigned.

Additionally, the following nearby/adjacent property is listed on this database:

- American Self Storage, 586 River Avenue, Bronx, New York (NYSDEC Id: 2-609485) - This site is listed as having a 10,000-gallon aboveground fuel oil tank.

Chemical Bulk Storage Facilities

The project site was not identified within this database.

5.1 New York City Regulatory Database Records

5.1.1 New York City Historic Utility Facilities

A check was made of the New York City Historic Utility Facilities database which is an inventory of selected power generation stations, manufactured gas plants, gas storage facilities, maintenance yards, and other gas and electric utility sites identified within various historic documents, maps, and annual reports of New York utility companies. A majority of these sites operated between the 1890s and 1940s.

The project site was not identified within this database. There were no Historic Utility Facility sites depicted within an approximate 1/8-mile radius of the project site.

5.1.2 New York City "E" Designated Sites

A check was made of the New York City Environmental Quality Review (CEQR) – E Designation Site database, which lists parcels assigned a special environmental ("E") designation under the CEQR process. An "E" designation requires specific protocols that must be followed during redevelopment.

The project site was identified within this database and was previously discussed in the report.

6. Interviews

6.1 Interviews

During the site inspection, Ms. Kim Internocia, the property manager was interviewed and stated that the project building is completely vacant.

According to Ms. Internocia, to the best of her knowledge, there have been no physical changes made to the building since the previous Phase I ESA was performed in 2015.

7. Site Reconnaissance

The objective of the site reconnaissance is to evaluate the subject site to assess the presence or potential presence of a release of hazardous substances or petroleum products in order to identify RECs. The project site was inspected on August 9, 2018 by GEI environmental professional, Mr. William J. Fitchett. Weather conditions at the time of site reconnaissance were sunny, with an ambient temperature of approximately 85° Fahrenheit. Photographs documenting environmental conditions on the project site are provided in **Appendix F**.

7.1 Building Description and Observations

7.1.1 Building Description

At the time of GEI's site inspection, the project site was occupied by a single-story garage building. The subject building, which measures approximately 31,200 square feet in area, primarily covers the project site, with the exception of a 3-foot path on the east side of the building.

The subject building has a cement floor and the walls are cement as well. There is a small basement that contains the boiler system along the Gerard Avenue side of the building.

There are garage doors on the Gerard Avenue side of the building and the East 150th Street side of the building.

The interior of the building was completely vacant at the time of inspection.

7.1.2 Building Heating and Cooling

No active heating system was observed within the building.

7.1.3 Observed Interior Stains or Corrosion

No interior or exterior staining or corrosion was observed during the site reconnaissance.

7.1.4 Observed Interior Drains, Sumps, or Pools of Liquid

No interior drains or pools of liquid were observed during the site reconnaissance.

7.1.5 Waste/water Disposal

Sanitary waste water from the project site is discharged to the municipal sewer system. No other types of waste water are generated.

7.2 Property Exterior Description and Observation

7.2.1 Property Description

The portion of the project site not covered by the building consists of a small 3-foot asphalt covered side yard area on the east side of the building. This abuts directly with the adjacent properties that have frontage on East 150th Street and Walton Avenue.

This area was not inspected during the 2018 Phase I ESA. This is considered a data gap; however, the existence of this data gap does not impact our ability to identify RECs. Additionally, no hazardous materials were observed on this area of the project site during the previously conducted Phase I ESAs.

7.2.2 Pits, Ponds, and Lagoons

No pits, ponds, or lagoons are present on the site or were observed during the site reconnaissance.

7.2.3 Odors and Stressed Vegetation

No unusual odors or areas of stressed vegetation were observed during the site reconnaissance.

7.2.4 Stained Soil or Pavement

No significant areas of staining or impacted/deteriorated surfaces were observed.

7.2.5 Wells

No monitoring wells were observed on the project site or in the sidewalk area associated with the project site.

7.2.6 Septic Systems

There are no septic systems associated with the project site.

7.2.7 Solid Waste

Municipal solid waste generated at the project site hauled off-site for disposal by the City of New York.

7.3 Oil/Chemical Storage

7.3.1 Current Chemical Storage/Waste Generation

No chemical storage or waste generation was observed.

7.3.2 Past Chemical Storage/Waste Generation

No information regarding chemical storage and waste generation by prior occupants (if any) of the project site was available at the time of the site reconnaissance.

7.3.3 Drums and Chemical Storage Containers

One 55-gallon drum containing solid waste was observed on the project site.

7.4 On-Site Storage Tanks

7.4.1 Underground Storage Tanks

The following information is based upon visual observations and other information obtained during the course of this investigation.

> **Fuel Oil Storage Tank** – According to the Toxics Targeting Database Report, an underground 2,500-gallon fuel oil tank is currently buried on the project site. This tank is located inside the subject building. According to an affidavit dated April 5, 2018, this tank was abandoned in place.
>
> Furthermore, reportedly, a 5,000-gallon fuel oil tank was removed and replaced in 1993 with this present 2,500-gallon fuel oil tank. In 2000, a subsurface investigation was performed, and subsequent soil sampling showed no evidence of significant contamination.
>
> **Gasoline Storage Tanks** – Based upon information obtained, at least nine gasoline tanks were located on the site. According to information obtained from the Toxics Targeting Database Report, these gasoline tanks had been installed in 1950 and removed in 1993 and subsequent soil sampling showed no evidence of significant contamination.

It should be noted that the project site is listed on the NYSDEC PBS database under Facility Identification Numbers 2-333212 and 2-476021.

7.4.2 Aboveground Storage Tanks

No evidence of an aboveground storage tank (AST) was observed on the project site.

7.4.3 Hydraulic Lift Units

Three large underground hydraulic lift units were observed within the subject building. One was on the north side of the building and the other two were on the eastern side of the building. No staining was observed near the hydraulic lifts.

7.4.4 Polychlorinated Biphenyl-Containing Equipment

No polychlorinated biphenyl (PCB)-containing fluid filled electrical equipment was observed on the project site.

7.5 Solid Waste/Surficial Dumping

No evidence of surficial dumping was observed during site reconnaissance and solid waste is disposed of by the City of New York.

7.6 Non-Scope Considerations

7.6.1 Suspected Asbestos-Containing Insulation Materials

As part of this Phase I ESA, GEI performed a limited visual survey within accessible areas of the project site to identify the presence of suspected asbestos-containing insulation materials. Accessible areas included those areas of the subject building made available by the site contact on the date of GEI's site visit (i.e., unlocked areas which are deemed safe and which building occupants have allowed access into).

This limited visual survey was conducted for overview purposes only. It is not to be used as a complete asbestos inspection, which would be required prior to renovation, construction or demolition activities, according to New York City Regulations (15 RCNY 1). No sampling or laboratory analysis of suspected asbestos-containing materials (SACM) identified within the subject building for confirmation of the presence of asbestos, or destructive activities into inaccessible areas (e.g., behind plaster or sheetrock walls, ceilings, pipe chases, etc.) were performed during this Phase I ESA.

Based upon our observations, no suspected asbestos-containing insulation materials were observed during the inspection of the project site. However, floor tiles were noted within the office area on the western side of the subject building. Floor tiles are known to contain ACM.

7.6.2 Lead Based Paint

Consumer sale of lead-based paint (containing over .06 percent metallic lead) was banned by the United States Consumer Products Safety Commission in 1977. Based upon the age of the subject buildings, it is possible that underlying layers of paint may contain lead.

7.6.3 Mold

Molds are part of the natural environment. Outdoors, molds play a part in nature by breaking down dead organic matter such as fallen leaves and dead trees, but indoors, mold growth should be avoided. Molds reproduce by means of tiny spores; the spores are invisible to the naked eye and float through outdoor and indoor air.

Molds are usually not a problem indoors unless mold spores land on a wet or damp spot and begin growing. Molds have the potential to cause health problems. Mold produces allergens (substances that can cause allergic reactions), irritants, and in some cases, potentially toxic substances (mycotoxins). Inhaling or touching mold or mold spores may cause allergic reactions in sensitive individuals.

No visual evidence of extreme, large and/or significant areas of mold spore growth was noted within the subject buildings at the time of GEI's site visit.

7.6.4 Radon

Radon, a naturally occurring radioactive gas, is the product of the decay of radium. It is found most frequently in relatively high concentrations in rock formations containing uranium, granite, shale, phosphate, and pitchblende. Radon may also be found in soils contaminated with industrial waste from uranium and phosphate mining. Radon as a gas can move through the soil and water, and into the atmosphere, and is a potential health concern if confined in sufficiently high concentrations in indoor environments. The USEPA has set an "action level" of 4.0 picocuries per liter for continuous long-term exposure to radon gas. If radon gas is measured above this level, USEPA suggests follow-up testing and remediation measures.

According to data compiled by the Bureau of Radiation Protection, New York State Department of Health (NYSDOH), New York City has one of the lowest average levels of basement radon measurements in New York State. The latest statistics indicate an average of 1.58 picocuries per liter for New York City (Bronx), compared to a statewide average of 5.6. Based on these low average levels for New York City, it is unlikely that radon gas levels on the project site exceed the USEPA action level of 4.0 picocuries per liter.

8. Vapor Intrusion Screening

We have performed a Tier 1 Vapor Encroachment Screening for the property.

Toxic, volatile substances that are spilled on the ground or released into the subsurface may migrate in the subsurface environment and eventually enter buildings as a gas or vapor by seeping through cracks in basements, foundations, sewer lines and other openings. Vapor flow toward and into a building can be influenced by a number of factors, including atmospheric pressure changes and building depressurization due to operation of exhaust fans or heating units within the building. The flow rate of vapors into a building often is difficult to predict but generally will depend on factors such as subsurface conditions (e.g., soil properties and contaminant characteristics), building design and condition (e.g., cracks and conduits), and differentials in air pressure across the building foundation. Upon entry into a structure, vapors normally mix with the existing air through the natural or mechanical ventilation of the building. Concentrations of indoor vapors may accumulate to a point where the health of occupants (e.g., residents, workers) in those buildings could be at risk.

Vapor intrusion (also referred to as VI) is the general term given to migration of vapors from a contaminant source in the subsurface into indoor air. Vapor intrusion can occur in a wide variety of building configurations (e.g., buildings with basement, crawlspace, or slab-on-grade foundations). VOCs are the category of chemicals of greatest potential concern for this pathway, which among other things includes constituents of gasoline (e.g., benzene) and other petroleum fuels, as well as dry cleaning fluids (e.g., tetrachloroethylene [PCE]) and industrial degreasers and solvents (e.g., trichloroethylene [TCE]). Other vapor-forming chemicals of potential interest include certain semi-volatile organic compounds (SVOCs), certain pesticides, and mercury.

The vapor intrusion pathway has become widely recognized as a potentially significant cause of exposure to toxic substances in indoor spaces. Numerous studies have indicated that the air in buildings overlying soil or groundwater contaminated with toxic vapor forming substances may contain potentially harmful concentrations of these contaminants due to vapor intrusion.

Based on our evaluation of current and past property uses as well as our review of available property records during this Phase I ESA, we conclude that a vapor intrusion concern (VIC), defined as the presence or likely presence of contaminated vapors in the subsurface caused by the release of vapors from contaminated soil and groundwater at or near the property cannot be ruled out due to the past historical use, and past history of oil and gasoline tank USTs that had been removed.

The Toxics Targeting, Inc. database indicated suspect sources of petroleum contamination within 1/10- mile of the property and suspect sources of non-petroleum contamination within 1/3-mile of the property, which are the "approximate minimum search distances" required in a Tier 1 Vapor Encroachment Screening. However, given the regulatory status, the characteristic of the off-site suspect sources and that there are no documented plumes associated with these suspect sources, it is unlikely that the project site has been impacted from an offsite vapor migration/intrusion viewpoint.

The vapor migration/intrusion pathway is very complex and can vary considerably within a site. It should be noted that this "screening" is not an absolute and definitive methodology for confirming vapor migration/intrusion impacts. If redevelopment occurs at the project site, the new construction would require a vapor intrusion evaluation.

9. Findings, Opinions, & Conclusions

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-13 of the project site located at 580-610 Gerard Avenue, Bronx, New York.

9.1 Recognized Environmental Conditions

The objective of this assessment was to evaluate the property for evidence of RECs. A *recognized environmental condition* (REC) is defined in ASTM E1527-13 as "the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, ground water, or surface water of the property."

We have performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E 1527-13 of a parcel of land designated as (Block 2353, Lot 1) with the street address 580-610 Gerard Avenue, Bronx, New York, the "project site." Exceptions to, or deletions from, this practice (if any) are described in Sections 1.1 and 1.2 of this report. The following RECs were identified in connection with the property requiring further investigation:

1. **Gasoline Storage Tanks** – GEI's site visit of the subject property, a vacant former automotive garage and service/storage facility for U.S Postal Service vehicles found evidence of an area within the building where underground gasoline storage tanks had been located. According to information obtained from the Toxics Targeting Database Report, the tanks had been removed in 1993 and that subsequent soil sampling showed no evidence of significant contamination.

2. **Hydraulic Lift Units** – Three large underground hydraulic lift units were observed within the subject building. One was on the north side of the building and the other two were on the eastern side of the building. No staining was observed near the hydraulic lifts.

3. **Fuel Oil Storage Tank –** According to the Toxics Targeting Database Report, an underground 2,500-gallon fuel oil tank is currently buried on the project site. This tank is located inside the subject building. The man-way cover and other associated access ports were available for inspection and no staining was observed. According to an affidavit dated April 5, 2018, this tank was abandoned in place.

4. Furthermore, reportedly, a 5,000-gallon fuel oil tank was removed and replaced in 1993 with the present 2,500-gallon fuel oil tank. In 2000, a subsurface investigation was performed, and subsequent soil sampling showed no evidence of significant contamination.

5. **E-Designation –** As part of a zoning change or action, the NYC Department of City Planning and City Council has labeled the project site as part of an E-Designated area of New York City. An E-Designation is a NYC zoning map designation that indicates the presence of an environmental requirement pertaining to potential Hazardous Material Contamination, Window/Wall Noise Attenuation, or Air Quality impacts on a particular tax lot. These environmental requirements are administrated by the NYCOER.

   On May 22, 2013, this site has been assigned E-Number, E-292, and is described as being classified under the Hazardous Materials Phase I and Phase II Testing Protocols.

   The E-Designation will not interfere with the current and present use of the project site; however, if the use of the project site changes, the E-Designation will prevent the release of building permits until a detailed environmental review/investigation is performed.

   NYCOER will require the submittal of a Remedial Action Work Plan (RAWP) and selection of a remedial remedy in conjunction with the proposed redevelopment to address the soil, soil vapor, and groundwater impacts that are present on the site.

   The remedy would likely include the excavation and disposal of impacted soil and fill at a regulated facility in accordance with applicable regulations. The RAWP would likely include design specifications for typical measures employed during construction within New York City, including waterproofing/vapor barrier membranes and connection to public water supply as a part of the redevelopment plans for the project site.

9.2 Historical Recognized Environmental Conditions

A *historical recognized environmental condition* (HREC) is defined as "a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)." GEI identified the following HRECs at the project site. GEI identified the following HRECs:

- Closed Spill Incident Number 9007668 – This spill pertains to a tank test failure of a 3,000-gallon fuel oil tank that occurred on October 13, 1990. According to the NYSDEC comments, a 5,000-gallon fuel oil UST was removed and replaced with a 2,500-gallon UST in 1993. A subsurface investigation that was performed in 2000

showed no visual, olfactory, or PID Evidence of contamination/release. Soil analysis was non-detect for VOCs and PAHs were consistent with obvious fill material (i.e., coal/asphalt). Groundwater was not encountered before bedrock which was at a depth of approximately 12-feet below ground surface. This spill incident was closed on May 11, 2001.

- Closed Spill Incident Number 9213223 – This spill incident is related to gasoline found during the excavation of gasoline tanks that occurred on February 27, 1993. This spill incident indicates that nine 550-gallon gasoline USTs were removed in 1993. Concurrently, 22 tons of contaminated soil had also been reportedly excavated and removed. Subsurface investigation indicated no visual or olfactory evidence of contamination. Soil analysis showed non-detect for VOCs and PAH levels were consistent with obvious fill material. Groundwater analysis showed non-detect/trace PAHs and VOCs. This spill incident was closed on May 11, 2001.

- Closed Spill Incident Number 1205845 – This spill occurred when it was reported that approximately two gallons of heating oil residual/staining was noted next to the fill port area on the east side of the building. The spill was administratively closed on May 24, 2016 based upon the age and nature of the complaint.

Based upon the characteristics, these spill incidents are not likely to have significantly impacted the environmental integrity of the project site. As they are considered to be closed, no further action is recommended in connection with these spill incidents.

9.3 Controlled Recognized Environmental Conditions

A Controlled Recognized Environmental Conditions (CRECs) are those RECs that have been addressed to the satisfaction of the regulatory agency but require the ongoing use of engineering or institutional controls in order to remain in compliance.

- GEI did not identify CRECs in connection with the project site.

9.4 Non-ASTM Scope Consideration

1. **Suspected Asbestos-Containing Materials** - Due to the age of the subject buildings, asbestos-containing building materials are most likely present in the building. Prior to any planned demolition and renovation work for the building, a survey should be conducted by a NYC-licensed Asbestos Investigator. Based on the results of the survey, the required New York City Department of Environmental Protection (NYCDEP), New York State and federal filings, and notifications should be completed prior to any asbestos abatement activities, according to all applicable regulatory requirements.

2. **Lead-Based Paint -** Due to the age of the subject building, it is likely that lead-based paint is present in all painted surfaces within the interior portions of the building. Precautions should be taken during any future renovation or demolition of the subject building to limit the amount of dust emissions that would be generated by such activities. Lead dust generated during renovation/demolition activities poses a potential health threat to workers and residents and should be addressed in accordance with all applicable federal, state, and city rules and regulations governing such projects.

10. Limitations and Deviations

This Phase I ESA was conducted and prepared on behalf of Hunton Andrews Kurth LLP. No other entity may rely upon the results of the ESA or contents of this report for any reasons or purpose.

The purpose of this ESA is to evaluate whether hazardous substances or petroleum products may be present at the site. The opinion provided is based on the information described in this report. Future investigations or information that was not available to GEI may result in modification of the findings of this report.

In preparing this report, GEI relied on file information provided by state and local officials, and information and representations made available to GEI at the time of the report. If this information is incomplete or inaccurate, GEI is not responsible.

GEI performed this ESA in accordance with generally accepted practices of engineers and/or scientists providing similar services at the same time, in the same locale, and under like circumstances. No other warranty, expressed or implied, is made as to the professional opinions included by GEI in this report.

Per Section 4.6 of ASTM E1527-13, “an environmental site assessment meeting or exceeding this practice and completed less than 180 days prior to date of acquisition of the property or (for transactions not involving an acquisition) the date of the intended transaction is presumed to be valid.”

The scope of services for this project did not include the following list of “additional issues” that are non-scope considerations that are outside the scope of the ASTM Phase I practice: Lead in Drinking Water, Wetlands, Regulatory Compliance, Cultural and Historic Risks, Industrial Hygiene, Health and Safety, Ecological Resources, Endangered Species, Indoor Air Quality, and High Voltage Power Lines.

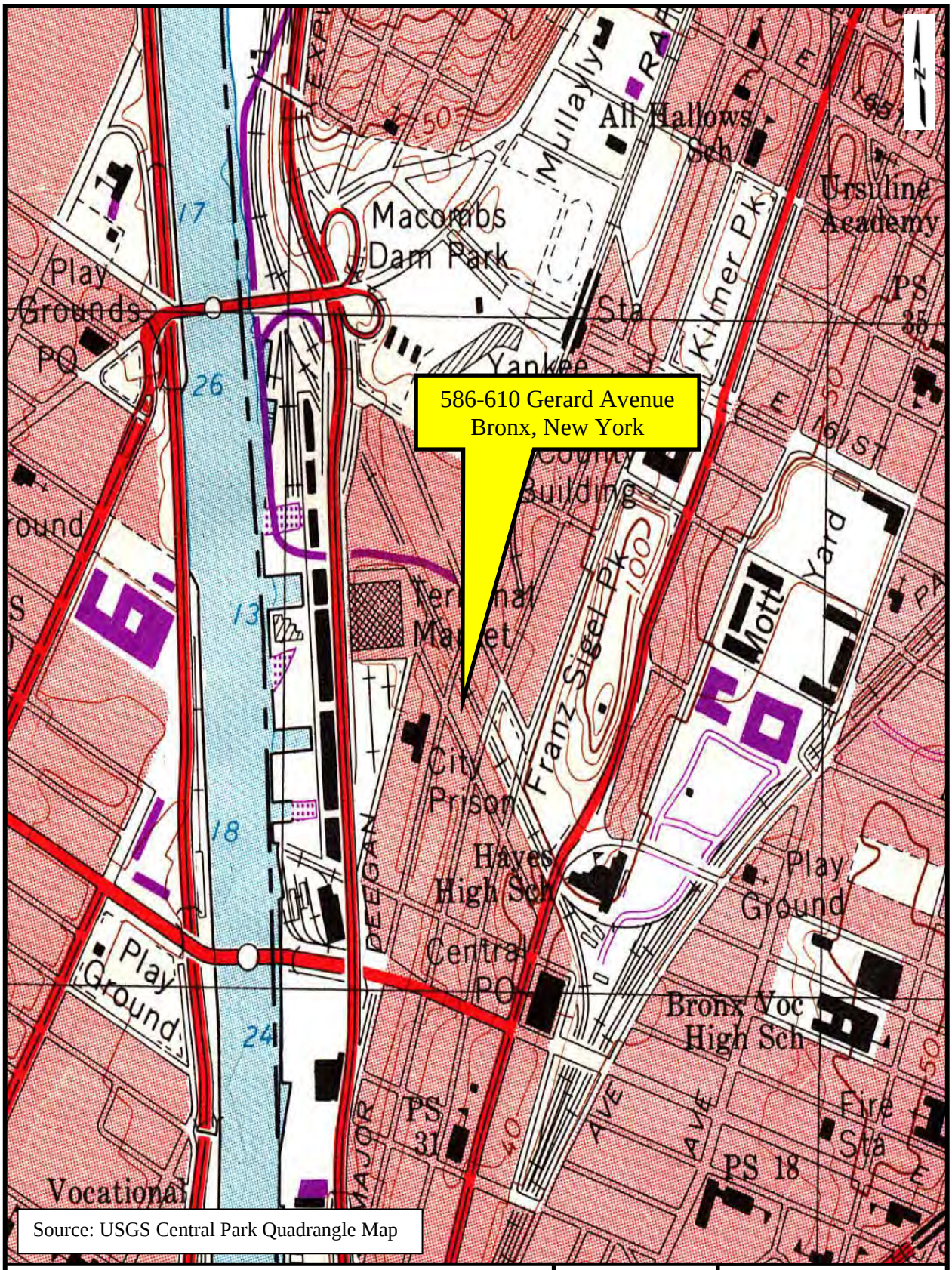
No significant deviations from ASTM 1527-13 occurred during the preparation of this Phase I ESA and no additional services were provided as part of this Phase I ESA.

11. References

The following documents, publications, maps, etc. were used as source materials for this Phase I Environmental Site Assessment:

- 2011 Phase I ESA Report prepared by EEA, Inc.
- 2015 Phase I ESA Report prepared by GEI.
- ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (E 1527-13), 2013.
- Federal Emergency Management Agency (http://msc.fema.gov/portal)
- Google Maps (www.google/maps.
- New York City Department of Buildings (http://a810-bisweb.nyc.gov/bisweb/bispi00.jsp)
- New York City Department of Finance (http://www1.nyc.gov/site/finance/taxes/acris.page)
- New York State Department of Health (https://www.health.ny.gov/environmental/radiological/radon/county.htm)
- Sanborn Fire Insurance Maps
- Toxics Targeting, Inc.: Environmental Regulatory Agency Database Records

Figures



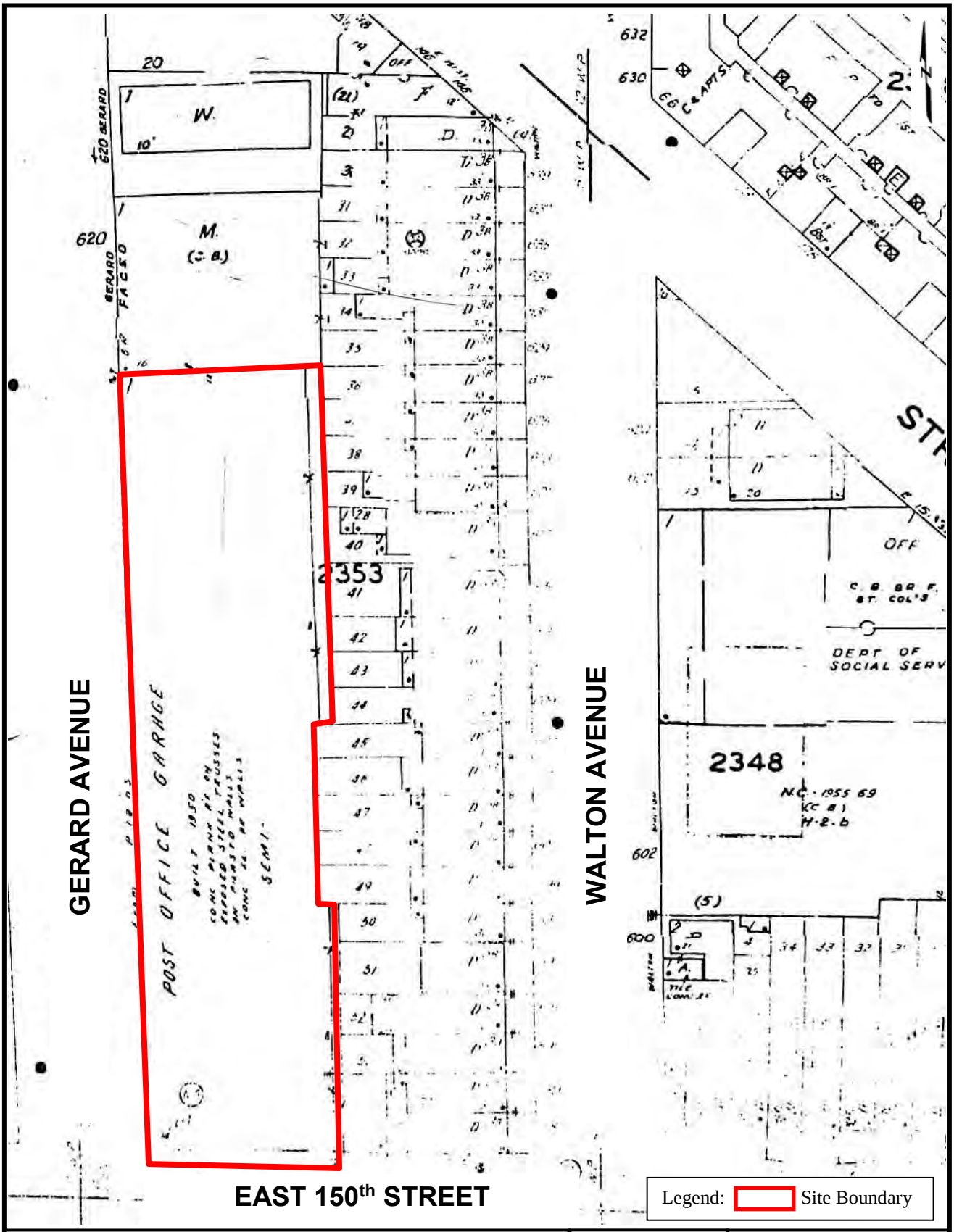
580-610 GERARD AVENUE, BRONX, NEW YORK

HUNTON ANDREWS KURTH, LLC
BROOKLYN, NEW YORK

GEI Consultants

SITE LOCATION MAP

Project 1803080 | September 2018 | Fig 1



580-610 GERARD AVENUE, BRONX, NEW YORK

HUNTON ANDREWS KURTH, LLC
BROOKLYN, NEW YORK

GEI Consultants

Project 1803080

1996 SANBORN MAP

September 2018 Fig 2

Appendix A

Resumes

William J. Fitchett
Staff Environmental Scientist

resume

William Fitchett is an environmental scientist working in GEI's Long Island office. He has experience performing and managing field investigations and remedial activities at numerous sites on Long Island and within New York City. He has managed multiple projects within USEPA, NYSDEC, NYCDEP, and NYCOER. Mr. Fitchett also has experience completing environmental investigations and remediation's including Phase I and Phase II Environmental Site Assessments, monitoring well design/installation, sampling, UIC Closures, UST removals, and solid and hazardous waste disposal.

PREVIOUS PROJECT EXPERIENCE

Phase I/II Environmental Site Investigations and Assessments, Numerous Sites in New York City and Long Island, NY. Assessment and investigation of site history and potential presence of recognized environmental conditions. Performed contractor oversight for various subsurface investigations and conducted environmental sampling for laboratory analysis. Preparation of Phase I/II Reports for review by various government agencies and clients.

NYCOER VCP Program, E-Designation Requirements, Brooklyn, NY. Provide soil removal and excavation oversight, inspections of engineering controls. Serve as site safety officer and co-author Remedial Action Report approved by NYCOER in 2017.

NYSDEC BCP Program, Brooklyn, NY. Perform field oversight for Remedial Investigation, including soil, soil vapor, and groundwater sampling, along with serving as site safety officer. Co-author Remedial Investigation Report (RIR) and Remedial Action Work Plan (RAWP) approved by NYSDEC in late 2017.

Hooker/Ruco Superfund Site, Hicksville, NY. Manage day-to-day operations and maintenance of biosparge groundwater remediation system. Serve as site safety officer and lead field personnel during semi-annual groundwater sampling events.

PROFESSIONAL AFFILIATIONS

New York City Brownfield Partnership

Long Island Association of Professional Geologists

Long Island Risk Management Association

EDUCATION

B.S., Environmental Science, State University of New York, College at Oneonta

EXPERIENCE IN THE INDUSTRY

3 years

EXPERIENCE WITH GEI

Less than one year

REGISTRATIONS/CERTIFICATIONS

Environmental Professional In-Training (EPI), Institute of Professional Environmental Practice (IPEP)
OSHA 40-Hour HAZWOPER
OSHA 10-Hour Construction Safety
OSHA Confined Space Entry (CSE) as an Entrant/Attendant/Supervisor
Electrical Safety for Qualified Persons

Wendy Monterosso

Project Manager, Senior Hydrogeologist

resume

Wendy Monterosso is an experienced environmental project management professional with strong leadership and relationship-building skills and solid experience managing all levels of environmental investigation and remediation projects, from inception to completion. She is well-versed in NYSBCP and NYCOER VCP requirements, including DER-10, and NYSDOH Soil Vapor Intrusion Guidance. Ms. Monterosso is experienced in preparing BCP Applications, Remedial Investigation Work Plans and Reports, Community Participation Plans, Health and Safety Plans, Periodic Monitoring Reports, Interim Remedial Measure Work Plans and Reports, Remedial Action Work Plans, and Final Engineering Reports. She is experienced with Phase I, Phase II, and Due Diligence Site Investigations, and is familiar with standard field sampling practices for soil, groundwater, and soil vapor/indoor air.

PREVIOUS PROJECT EXPERIENCE

Redevelopment of Former Avis Headquarters, Private Developer, Garden City, NY. Project manager for large scale, fast-track redevelopment of a 22-acre Track One BCP Site including preparation of all BCP program documents from BCP application through Final Engineering Report and Site Management Plan. Project included procurement, coordination, and management of environmental subcontractors, equipment vendors, and laboratories; direct oversight and supervision of multiple crews during remedial investigation and demolition of 5 existing buildings; interim remedial measures consisting of excavation of over 40,000 cubic yards of soil, removal of 8 drywells and 30 leach pools; preparation and implementation of an in-situ chemical oxidation injection program and post-injection groundwater monitoring; and a soil vapor monitoring program. Site achieved Certificate of Completion in August 2012 and is now a bustling retail shopping center with two main buildings and two pad sites.

Broadway Plaza, Private Developer, Bronx, NY. Project manager for 2.06-acre redevelopment site in the NYC OER Voluntary Cleanup Program, including preparation of all OER program documents from Remedial Investigation Report to Remedial Action Report; supervision of field crews during remedial investigation and remedial action; procurement, coordination, and management of environmental subcontractors, equipment vendors, and laboratories. Redevelopment and remediation included excavation and offsite disposal of approximately 20,000 cubic yards of soil and the construction of a grade- level parking garage beneath a multi-level retail shopping center.

5510 and 5530 Broadway, Private Developer, Bronx, NY. Project manager for two contiguous lots admitted in the NYC OER Voluntary Cleanup Program, including one 7,500 sq. ft. former gasoline station and the adjacent 11,500-sq. ft. former fast food establishment impacted with residual hydrocarbon and chlorinated volatile organic compounds from neighboring lots. Redevelopment and remediation included

EDUCATION

B.S., Environmental Science, State University College at Oneonta

EXPERIENCE IN THE INDUSTRY

14 years

EXPERIENCE WITH GEI

Less than one year

REGISTRATIONS/CERTIFICATIONS

OSHA 40-hour HAZWOPER

New York City Office of Environmental Remediation Bronze Certified Professional

GEI Consultants

excavation and offsite disposal of impacted soil, the discovery and removal of three unknown underground storage tanks, and the construction of a slab-on-grade multi-level retail shopping center serviced by a sub-slab depressurization system.

Retail Service Station Divestment, Major Oil Company, Various Locations in New England. Project manager for due diligence investigations at 13 active retail service stations in Massachusetts, New Hampshire, and Rhode Island. Mobilized and managed three different field teams for simultaneous fast-track investigatory field work and data evaluation to determine liabilities in conjunction with real estate acquisition.

Retail Service Station Divestment, Major Oil Company, Various Locations in New York City and Long Island, NY, and Central NJ. Project manager for Phase II investigations at 96 active retail service stations in New York and New Jersey. Managed over 15 field personnel and interns from three different offices for various phases of investigation including geophysical surveys, borehole pre-clearance, drilling and well installation, groundwater sampling, and reporting. Coordinated project scheduling and managed environmental subcontractors, equipment vendors, and laboratories on an expedited time frame to complete work at all 96 locations within the project deadlines.

Underground Storage Tanks Remediation and Monitoring Program, New York City Department of Design and Construction, New York City, NY. Project manager for a NYSDEC Consent Order mandated remediation and monitoring program associated with underground petroleum storage tanks at over 190 properties throughout Brooklyn, Queens, and Staten Island. Management and scheduling of 8-10 staff and all subcontractors and laboratories to complete field activities at over 50 active project sites including: quarterly groundwater gauging and sampling, soil sampling, monitoring and injection well installations, enhanced bioremediation injection programs, enhanced fluid recovery events, geophysical and land surveys, remedial system performance testing, waste disposal, monitoring well and system abandonment and other required project tasks. Prepared required project documents including quarterly and other periodic monitoring repots and site investigation work plans for NYSDEC review and approval, and the bimonthly report required by the client to provide a summary update on all activities performed at all sites in the program.

Nicholas J. Recchia, P.G.
Environmental Practice Leader - Hydrogeologist

resume

Nicholas Recchia's responsibilities include the development, management, and supervision of hazardous waste site investigations and remedial corrective actions for commercial/industrial and government properties. These responsibilities include: project management for remedial investigation and remediation operations, specializing in soil and groundwater studies and remedial cleanup of contamination at commercial/industrial facilities, evaluation of soil and groundwater impacts for planned developments from New England to Florida. Mr. Recchia has unique experience working with hazardous material impacts as related to ecological wetland issues and design. He has performed remedial subsurface investigations at over 2,000 sites.

Mr. Recchia has also completed remedial cleanup actions at over 300 sites within the New York City metropolitan area. He is familiar with New York City Department of Environmental Protection (NYCDEP), New York State Department of Environmental Conservation (NYSDEC), NYC Office of Environmental Remediation (NYCOER), NYC Economic Development Corporation (NYCEDC), and NYC Housing Development and Preservation (NYCHDP) environmental guidelines, regulations, and policies.

PROJECT EXPERIENCE

NYSDEC Brownfield Cleanup Program (BCP) Remedial Investigation, Commercial Dry-Cleaners 31st Street Astoria, Queens, NY. Current and past operations include a commercial dry-cleaning operation. The property is scheduled for development in Fall 2018. Project Manager including remedial investigation activities and the preparation of the Remedial Investigation Report (RIR) with onsite and potential offsite impacts to soil, soil vapor, and groundwater. Work will include the BCP application, a Remedial Action Work Plan and Interim Remedial Measure design

NYCOER Voluntary Cleanup Program (VCP), E-Designation Requirements, Beverly's Place Brooklyn, NY. The client has planned an affordable housing project and community space on the former Mastermade Furniture Company property. Funding was provided by New York City Housing Preservation (NYCHPD). GEI prepared documents to enter the site into the NYCOER VCP program and to address the "E" designation requirements. The work scope included submission of project submittals, architectural certified project descriptions, project drawings, historical Phase I ESA, Remedial Investigation Work Plan and Site Specific Health and Safety Plan (HASP), remedial investigation report (RIR), and the remedial action work plan (RAWP). GEI will provide environmental monitoring and engineering support during the remedial remedy.

Brownfield Cleanup Program (BCP) Remedial Investigation, Joeys Cleaner's, Bronx, NY. Project Manager including remedial investigation activities and the preparation of the Remedial

EDUCATION
M.S., Earth Science, Hydrogeology, Adelphi University
B.S., Geology and Water Resources Dual Degree, SUNY Oneonta

EXPERIENCE IN THE INDUSTRY
33 years

EXPERIENCE WITH GEI
29 years

REGISTRATIONS AND LICENSES
NY Professional Geologist No.14
IN Professional Geologist, No. IN1120
NJ Licensed Subsurface Evaluator, No. 0013038

CERTIFICATIONS
NYS Dept. of Environmental Conservation Erosion and Sediment Control, SWT
National Ground Water Association Certified Well Driller, CWD No.201440

PROFESSIONAL ASSOCIATIONS
Association of Groundwater Scientists and Engineers, Member
Association of Engineering Geologists, Member
Association for the Environmental Health of Soils, Member
New York State Council of Professional Geologists, Board Member 2014-Present
Long Island Association of Professional Geologists, Member
National Ground Water Association, Member

Investigation Report (RIR) for a dry-cleaning operation with onsite and potential off-site impacts to soil, soil vapor, and groundwater. The Remedial Investigation Work was completed and pending NYSDEC and New York State Department of Health (NYSDOH) review and approval. Project work to date is on time and within the projected budget.

Brownfield Cleanup Program (BCP) Remedial Investigation, Clearview Cleaners, Queens, NY. Project Manager including remedial investigation activities and the preparation of the Remedial Investigation Report (RIR) for a dry-cleaning operation with onsite and potential off-site impacts to soil, soil vapor, and groundwater. A Remedial Action Work Plan and Interim Remedial Measure design was completed. The Feasibility Study (FS) is presently under design and a remedy selection is pending NYSDEC and New York State Department of Health (NYSDOH) review and approval. Project work to date is on time and within the projected budget.

Environmental Due Diligence, Sun Tire Aquisition, Mavis Tire Supply Corp., Various locations, FL. Provided environmental due-diligence during the acquisition of 13 various properties. Phase 1 and Phase 2 investigation reports were prepared within a 30 day period to understand potential environmental liabilities prior to acquisition. Reports were prepared for investor review and financial risk assessment.

Environmental Due Diligence, Project Special K, Mavis Tire Supply Corp., Various locations GA and FL Provided environmental due-diligence during the acquisition of 72 various properties. The work entailed assemblage and detailed review of previous Phase 1 and Phase 2 investigation reports to understand potential environmental liabilities. In areas where data gaps were identified additional investigation and reporting were provided to provide business negotiations and financial support.

Phase II Environmental Subsurface Investigation, Mavis Tire Supply Corp., Warren, NJ. The property site had a historic gasoline service station and automobile repair facility operating from circa 1940s-1970s. The purpose of this investigation was to determine if any impacts from the former gasoline and automotive repair activities, in ground hydraulic lift units, former underground petroleum storage tanks (USTs), closed NYSDEC spill incidents, the parking lot storm-water drainage structures, interior floor drains, and the oil water separator had impacted onsite soils, soil vapor and groundwater.

Waste Characterization Sampling and Analysis, Riverdale Equities, Bronx, NY. GEI collected samples for waste disposal pre-classification analysis for a planned mass foundation excavation contaminated soil stockpiles. The stockpiles sampled in accordance with the sample frequency established the New York State Department of Environmental Conservation document titled "DER-10/Technical Guidance for Site Investigation and Remediation" (DER-10). GEI provided detailed soil disposal options based upon the soil chemistry and geotechnical value of the stockpiled material.

NYSDEC Brownfield Cleanup Program (BCP) Site(s) # C203291 and C203092, Concourse Village West, Bronx, NY. Assisted the developer with the NYC Jumpstart program and transfer to the NYSDEC BCP program including BCP application, remedial investigation activities, the preparation of the Remedial Investigation Report (RIR) and the remedial action work plan for a planned three-building apartment complex with community space.

Interim Remedial Investigation, Former Safety Kleen Drycleaners, New Windsor, NY. Project Manager including remedial investigation activities and the preparation of the Remedial Investigation Report (RIR) for a dry-cleaning operation with onsite and potential off-site impacts to soil, soil vapor, and groundwater. A Remedial Action Work Plan and Interim Remedial Measure design was completed. The Feasibility Study (FS) is presently under design and a remedy selection is pending NYSDEC and New York State Department of Health (NYSDOH) review and approval. Project work to date is on time and within the projected budget.

Spill Investigation, Lemle and Wolff, Inc., Manhattan, NY. GEI created a work plan to perform an environmental investigation in association with the delineation of NYSDEC spill number. NYSDEC suspected that petroleum from historical fueling operations at the subject property remote fill located in the sidewalk was responsible for gross contamination to soil and groundwater. The purpose of the investigation was to collect information to help determine if petroleum contamination identified at the location of the remote fueling line

could be migrating along the sidewalk of the subject property. GEI determined that the spill was originating from an adjacent site and the NYSDEC closed the spill file. The project was completed on time and within budget.

Brownfields Cleanup Program NYSDEC Site # C224162 DCA-1 Apartments, Brooklyn, NY. Historic dry-cleaning operation discharged tetrachloroethylene (PCE) into on-site soils and ground water. GEI entered the site into the NYSDEC's Brownfield Cleanup Program. GEI developed and designed a Remedial Investigation (RI) and subsequent Remedial Action Work Plan (RAWP) to address the soil, soil vapor, and ground water impacts. The remedial action remedy was selected and constructed within the accepted timeframe and budget. NYSDEC issued the certificate of completion (COC) in December 2016.

Environmental Management Services Remedial Action Plan and Construction Health and Safety Plan (CHASP), Lantern Group, Bronx, NY. The Lantern Group was seeking a use-variance from the New York City Board of Standards and Appeals (BSA) pursuant to section 72-21 of the Zoning Resolution to permit construction of a Use Group 3 community facility building with the New York City Department of Environmental Protection (NYCDEP). GEI prepared work plan documents and performed remedial corrective action in accordance with a NYCDEP-approved Remedial Action Plan (RAP). NYCDEP approved the work and a notice to proceed was issued for the projects development. The project was completed and all environmental requirements have been satisfied with final approvals from NYCDEP.

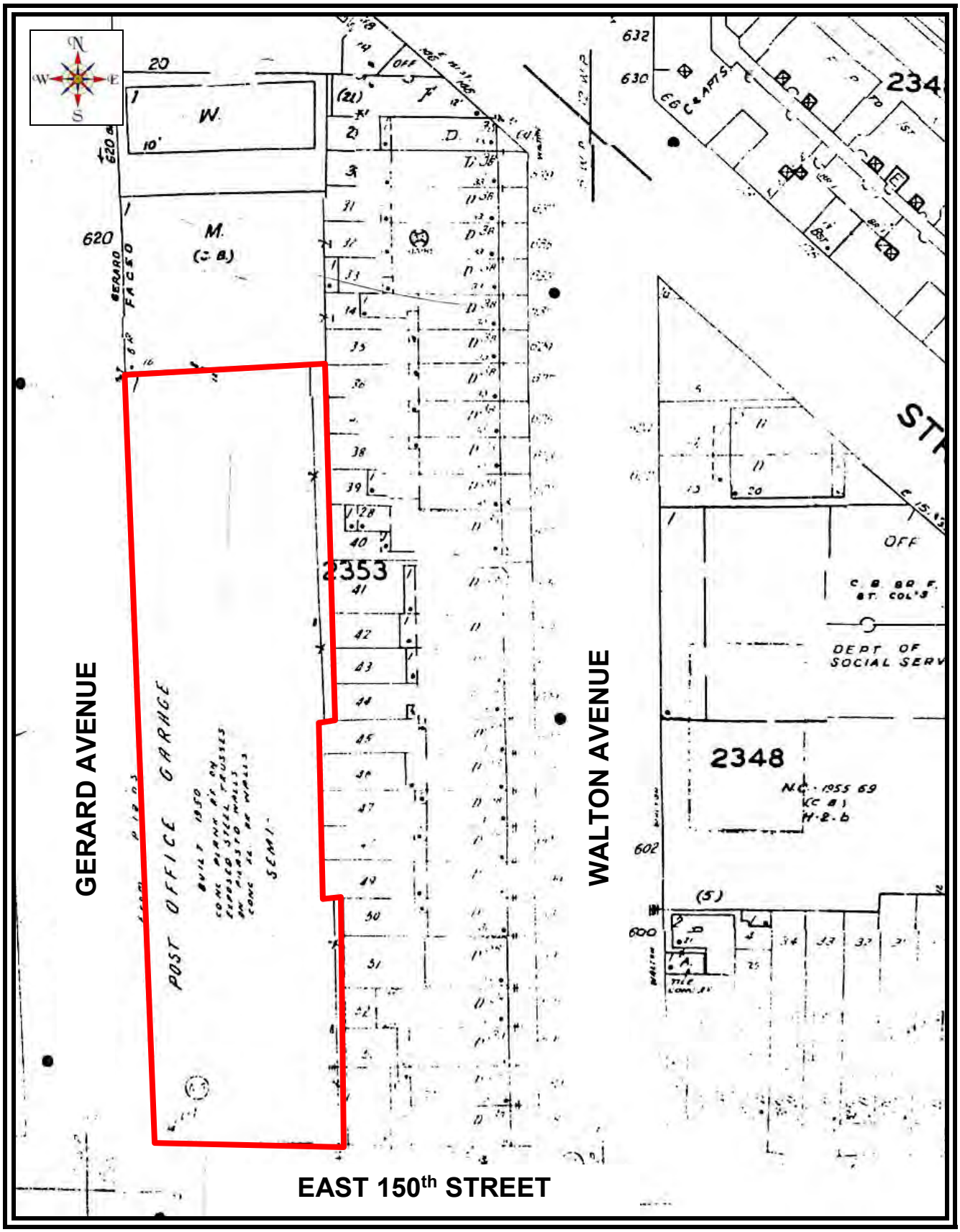
NYCOER VCP Program Remedial Corrective Action, Mass Soil Excavation and Cover System Design, Woodrow Plaza, Staten Island, NY. Woodrow Plaza LLC was seeking to develop two parcels where past historic and past activities impacted soil quality. GEI entered the site into the NYSOER VCP with a remedy consisting of mass soil excavation and a composite soil cover system design. This enabled a significant savings on the foundation construction elements. Two large 45,000 square foot buildings were constructed. The remedial investigation and stipulation agreement were approved by NYCOER. Project has been constructed and the remedial action report has recently been approved by OER in October 2016. The ownership is applying for various grants available through the NYC BIG program.

Appendix B

User Questionnaire

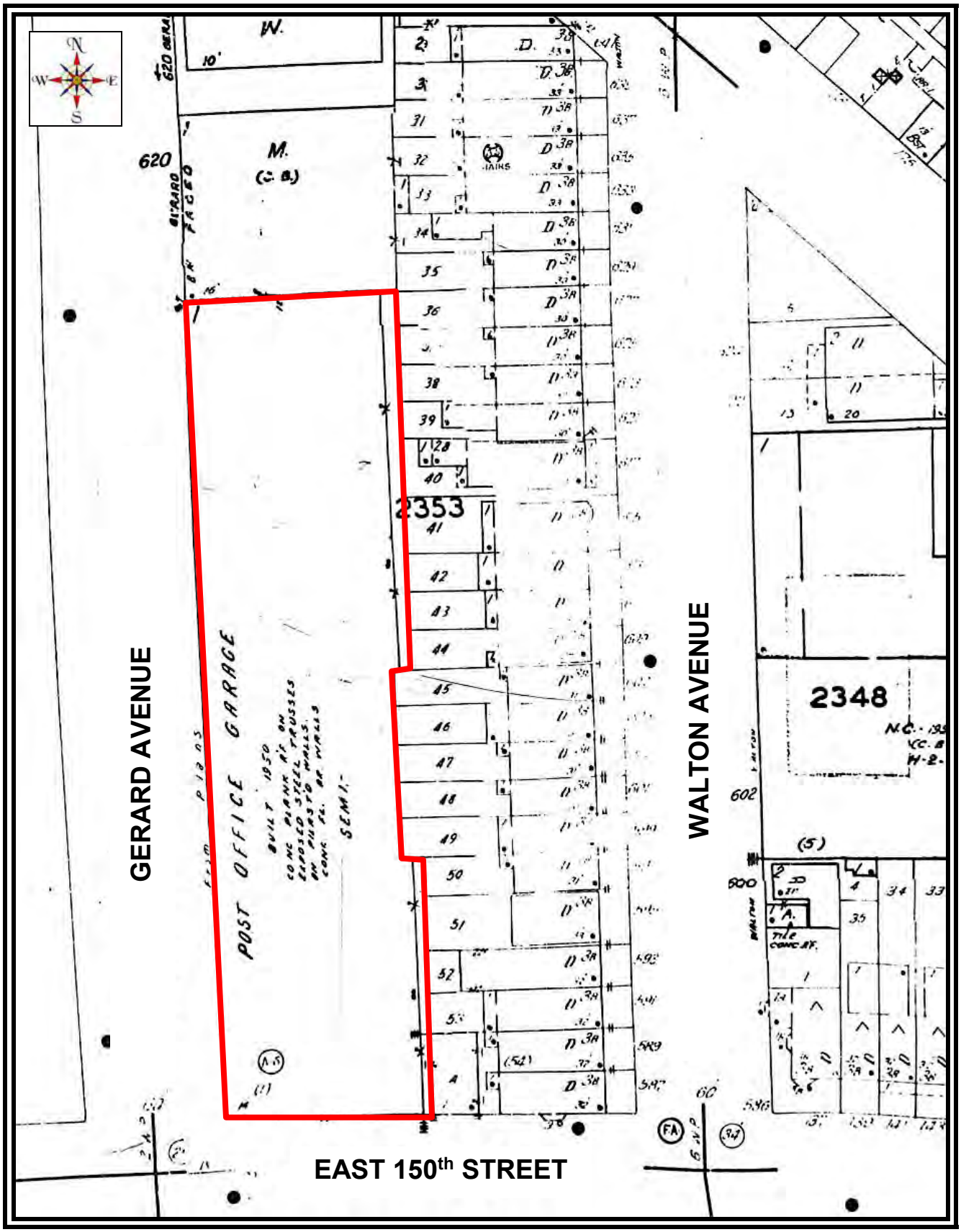
Appendix C

Electronic Sanborn Fire Insurance Maps



580 Gerard Avenue, Bronx, NY

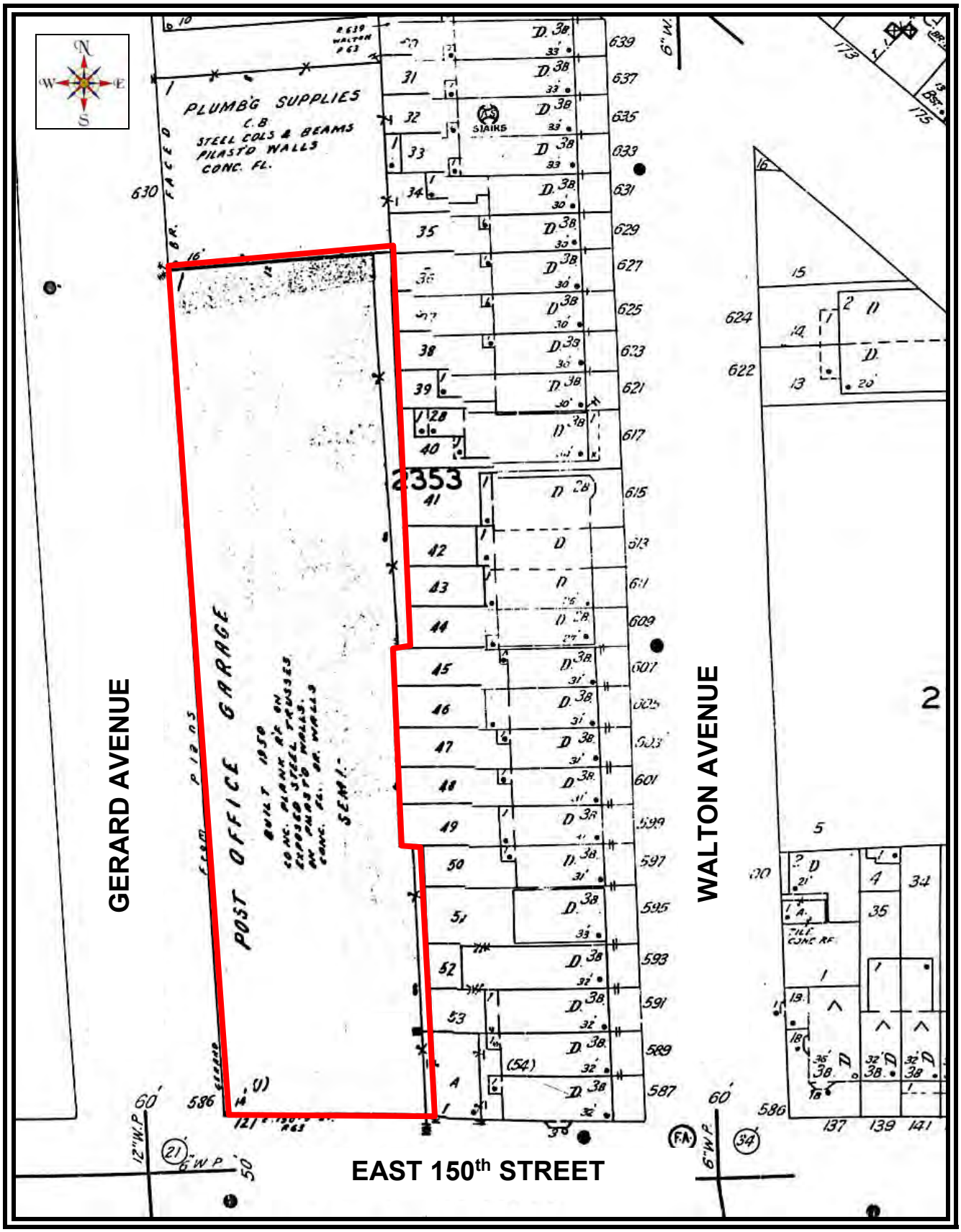
1996 Sanborn Map



580 Gerard Avenue, Bronx, NY

1981 Sanborn Map

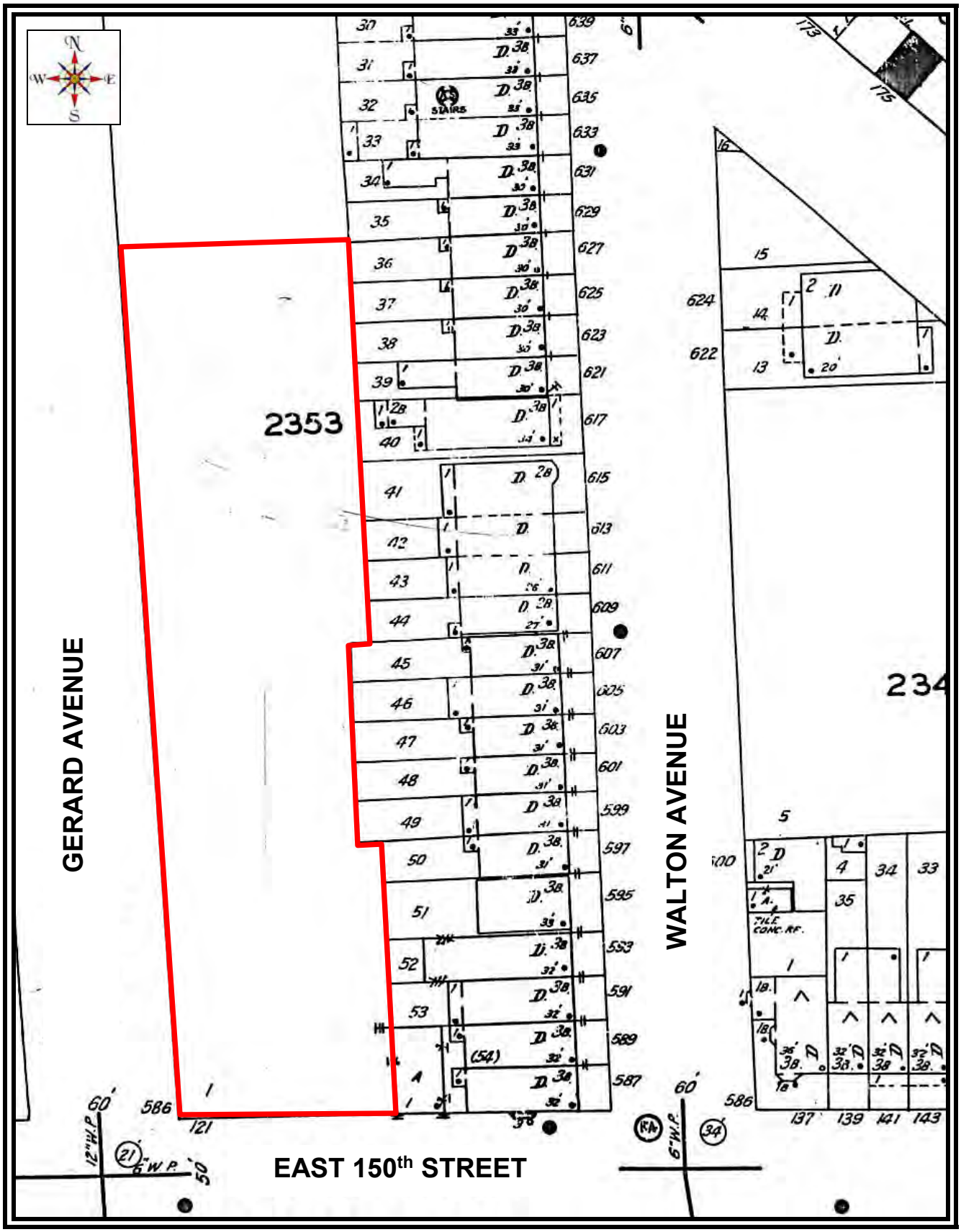
GEI Consultants



580 Gerard Avenue, Bronx, NY

1951 Sanborn Map

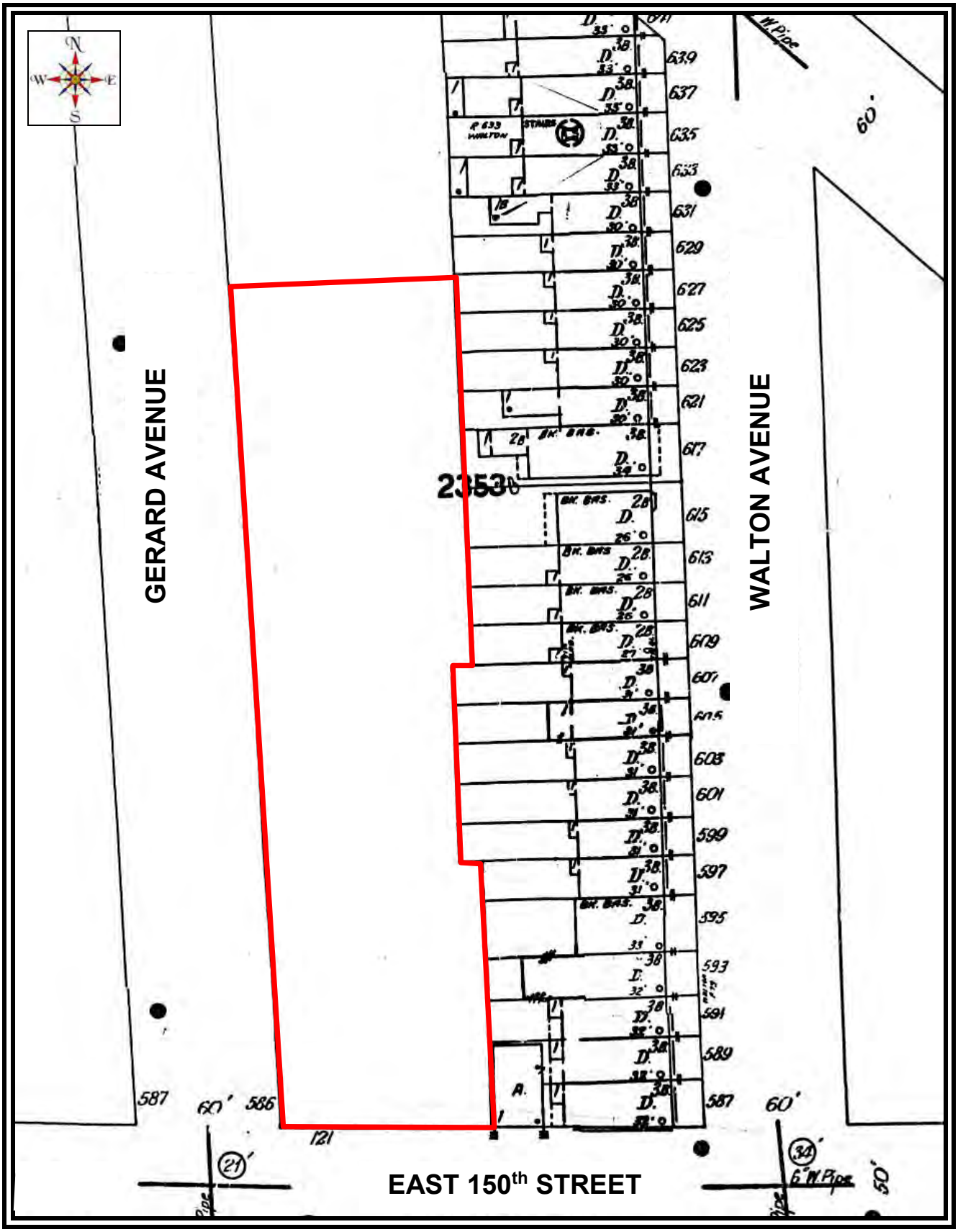
GEI Consultants



580 Gerard Avenue, Bronx, NY

1946 Sanborn Map

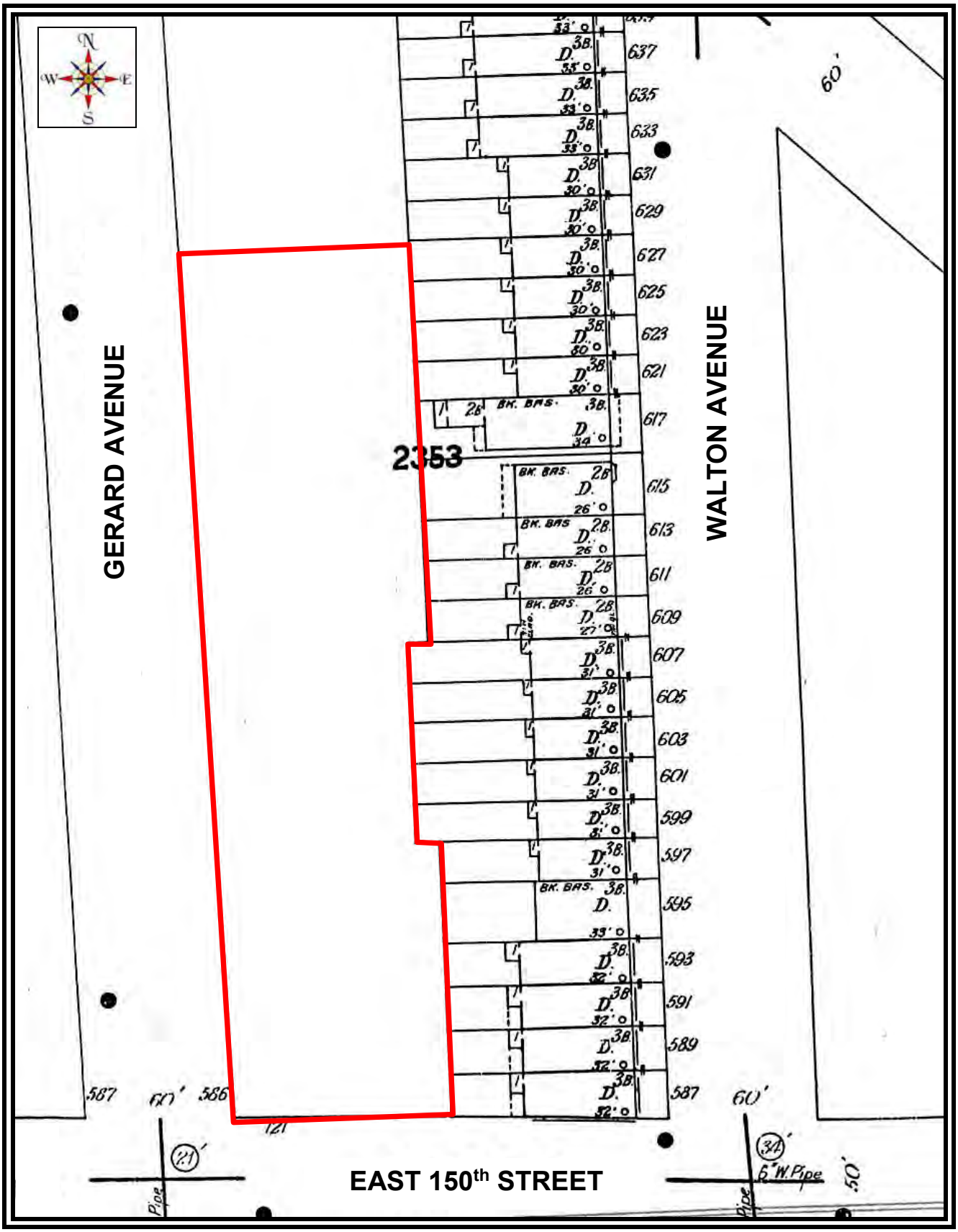
GEI Consultants



580 Gerard Avenue, Bronx, NY

1935 Sanborn Map

GEI Consultants



580 Gerard Avenue, Bronx, NY

1908 Sanborn Map

GEI Consultants

Appendix D

Phase II Environmental Subsurface Investigation - September 2018

Environmental
Engineers and
Scientists

Phase II Environmental

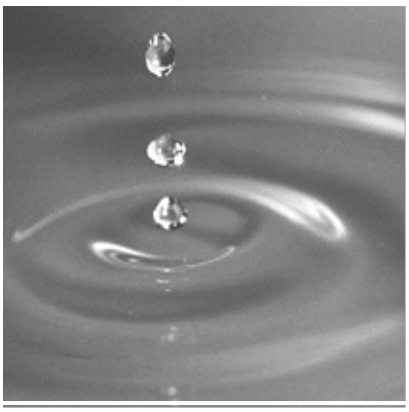
Subsurface Investigation

580-610 Gerard Avenue, Bronx, NY

Submitted to:
Hunton Andrews Kurth LLP
951 East Byrd Street
Richmond, Virginia, 23219

Prepared by:
GEI Consultants, Inc., P. C.
110 Walt Whitman Road, Suite 204
Huntington Station, NY 11746
631-760-9300

September 2018
Project 1803080



William J. Fitchett
Staff Professional

Wendy Monterosso
Project Manager

Nicholas J. Recchia, P.G.
Environmental Practice Leader
Hydrogeologist

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Tables
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B. Laboratory Analytical Report and Chain-of-Custody Record

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Executive Summary

GEI Consultants Inc., P. C. was retained by Hunton Andrews Kurth LLP on behalf of EMMES Asset Management Company to perform a Phase II Environmental Subsurface Investigation (ESI) at 580-610 Gerard Avenue, Bronx, New York (Site), an E-designated parcel (E Number E-292, issued by New York City Department of Environmental Protection [NYCDEP]). GEI conducted field activities on August 9 and 10, 2018. These activities included a limited geophysical survey and a subsurface investigation. Soil boring logs detailing the field observations made during the subsurface investigation are presented in **Appendix A**.

A total of eight (8) test borings were performed in the building on the Site. Soil borings were advanced and analytical samples were collected to determine if there are impacts to soils underlying the project Site. Two (2) soil borings were advanced into the groundwater table and two (2) groundwater grab samples were collected. Additionally, four (4) soil vapor samples were collected from temporary implants installed beneath the building floor slab.

The soil composition of the eight (8) borings was similar, with predominantly fine to medium-grained sand and fill material along with some silt found to exist from the surface to terminus of the borings. Groundwater was encountered in two (2) borings at approximately 23 feet below land surface (bls).

Soils from each boring were evaluated for visual and olfactory impacts (e.g. staining and odors) and were field screened for organic vapors using a photoionization detector (PID). Elevated PID readings and an odor were noted in boring SB-2 at the intersection of the water table, approximately 21-23 feet bls.

Based upon the laboratory analysis results of the fifteen (15) soil samples, there were no elevated concentrations of Volatile Organic Compounds (VOCs) above the New York State Department of Environmental Conservation's (NYSDEC) Part 375 Restricted and/or Unrestricted Use Soil Cleanup Objectives (RUSCOs/UUSCOs), other than acetone. Acetone is considered a common laboratory relic.

Isolated VOC impacts including 1,2,4-trimethlybenzene, 1,3,5-trimethlybenzene, chloroform, isopropylbenzene, n-butylbenzene, n-propylbenzene, and napthalene were detected at concentrations above the applicable standards in groundwater sample SB-2(GW). No detections above the applicable standards were detected in groundwater sample SB-5(GW). These limited groundwater impacts were observed beneath the hydraulically upgradient corner of the Site, and not in the vicinity of any of the recognized environmental conditions (RECs) (i.e., former gasoline and fuel oil underground storage tanks [USTs], hydraulic lifts,

floor drains, etc.) identified in the Phase I ESAs previously conducted for the Site, therefore they are most likely attributable to an upgradient, off-Site source.

VOCs were detected in soil vapor at predominantly low levels throughout the project Site. However, elevated tetrachloroethene was detected in soil vapor sample SV-2.

Based upon the above findings, it is GEI's professional opinion that no further investigations/ actions are necessary with regard to this subsurface investigation at present. If redevelopment is considered for this property, as required by the NYCOER E-designation program, prior to redevelopment, a Remedial Action Work Plan (RAWP) would be prepared and a remedy will be selected based on the remedial investigation results in conjunction with the proposed redevelopment to address the soil, soil vapor, and groundwater impacts that are present on the Site. Where soil/fill beneath the building will be disturbed, the soil/fill will require appropriate characterization prior to off-Site disposal. Additionally, any former features related to the previous garage operations (i.e., hydraulic lifts) and former underground storage tanks should be decommissioned, removed and disposed of in accordance with applicable regulations. Other typical measures employed during construction within New York City, including waterproofing/vapor barrier membranes and connection to public water supply would likely be included in the remedy selection process.

1. Introduction

GEI Consultants Inc., P. C. (GEI) was retained by Hunton Andrew Kurth LLP on behalf of EMMES Asset Management Company to complete an Environmental Subsurface Investigation (ESI) at the property located at 580-610 Gerard Avenue, Bronx, New York (Site), in support of property transfer. GEI also performed a Phase I Environmental Site Assessment (ESA) (GEI Project No. 1801351). Additionally, it should be noted that previous Phase I ESA Reports were completed in January 2011 and December 2015 for the project Site. The 2011 Phase I ESA was performed by EEA, Inc. for Sam Schwartz Engineering of New York, New York on behalf of EMMES Asset Management Company Ltd., LLC. The December 2015 Phase I ESA was conducted by GEI. Compared to the findings within the Phase I ESA performed for this Site in January 2011 by EEA, Inc., and December 2015 and August 2018 by GEI, no significant changes to the building had been identified, except for the in-place closure of one UST in April 2018.

This report summarizes the work performed by GEI, the analytical results of the investigation, and provides any recommendations for further testing or remedial actions.

The project Site is located on the east side of Gerard Avenue, between East 150th Street and East 151st Street, in the Borough of the Bronx, New York City, New York (**Figure 1**). The New York City Tax Map identification number associated with the project Site is Block 2353, Lot 1. The project Site was occupied by a single-story garage building. The subject building, which measures approximately 31,200 square feet in area, primarily covers the project Site except for a 3-foot path on the east side of the building. The building is currently vacant and was most recently utilized as a furniture warehouse. No visible indications of on-Site waste disposal of toxic and/or hazardous materials were observed at the time of inspection. No operations involving the use of toxic or hazardous materials were present on the project Site at the time of the Site assessment.

The Site currently has an E-designation (E Number E-292) issued by New York City Department of Environmental Protection (NYCDEP) during the City Environmental Quality Review process. Prior to redevelopment, the Site environmental concerns will need to be addressed through the New York City Office of Environmental Remediation (NYCOER) E-Designation Program.

1.1 Previous Reports

As previously mentioned, GEI completed a Phase I ESA in August 2018 and December 2015. Additionally, it should be noted that a 2011 Phase I ESA was performed by EEA, Inc. Compared to the findings within the Phase I ESA performed for this Site in January 2011 by EEA, Inc., and December 2015 and August 2018 by GEI, no significant changes to the

building had been identified, except for the in-place closure of one UST in April 2018. The conclusions of these reports revealed that similar recognized environmental conditions (RECs) were identified that pertained to gasoline storage tanks, hydraulic lift units, a fuel oil storage tank, and interior floor drains.

2. Subsurface Investigation Activities

GEI completed field activities on August 9 and 10, 2018. These activities included a subsurface investigation and limited geophysical survey.

2.1 Pre-Mobilization Activities

All activities on-Site were completed under the Site-Specific Health and Safety Plan (HASP). The HASP assigns responsibilities, establishes personal protection standards, recommends operating procedures, and provides for contingencies that may arise during performance of the assessment at the Site. The protocols in the HASP applied to all personnel involved in the work activities including GEI, all outside subcontractors, client, or regulatory agencies present during the performance of the work.

Cascade Technical Services (Cascade) was the subcontractor on-Site that completed the subsurface drilling under direction of GEI. Prior to mobilization, Cascade notified One Call 811 under the New York State Regulation Code 753 to identify the location of underground utilities near the proposed boring locations. The Dig Safe mark out number assigned was 181390101.

2.2 Subsurface Investigation

2.2.1 Soil Borings

Eight (8) soil borings (SB-1 through SB-8) were advanced in strategically selected locations throughout the project Site based on the previously identified RECs. A total of 15 soil samples were collected. The varying sample collection depths were the result of drilling refusal being encountered at depths ranging from 5 to 25 feet bls, in this case below the floor slab, during the investigation. Details for each boring location are summarized as follows:

Boring ID	Sample Depths (feet bls)	Termination Depth (feet bls)
SB-1	0-2 and 21-23	25, drilling refusal on rock, moist at bottom
SB-2(GW)	0-2 and 21-23	25, water table
SB-3	0-2	5, drilling refusal on rock
SB-4	0-2 and 17-19	20, water table
SB-5(GW)	0-2 and 10-12	25, water table
SB-6	0-2 and 10-12	20, no impacts
SB-7	0-2 and 10-12	19, drilling refusal on rock
SB-8	0-2 and 17-19	19.5, drilling refusal on rock

Laboratory analysis included analysis for Target Compound List (TCL) Volatile Organic Compounds (VOCs) by United States Environmental Protection Agency (USEPA) 8260,

TCL Semi-Volatile Organic Compounds (SVOCs) by USEPA Method 8270, Target Analyte List (TAL) Metals, Pesticides by USEPA 8081, and Polychlorinated Biphenyls (PCBs) by USEPA Method 8082.

2.2.2 Groundwater Grab Sample Collection

Groundwater was encountered at approximately 24 feet bls in soil boring SB-2 and SB-5, and approximately 20 feet bls in SB-4. No groundwater was encountered at the remaining locations, except for SB-1 where the soil immediately above the bedrock was moist, but groundwater was not able to be collected due to low permeability soil conditions.

Groundwater was collected by installing a temporary 1-inch diameter poly-vinyl chlorinated (PVC) slotted monitoring well screen and riser pipe into the existing soil bore hole after soil samples were collected. Groundwater grab samples were collected from each location using a peristaltic pump and dedicated tubing. Both groundwater samples were submitted for laboratory analysis for TCL VOCs by USEPA 8260, TCL SVOCs by USEPA Method 8270, TAL Metals, Pesticides by USEPA 8081, and PCBs by USEPA Method 8082.

2.2.3 Soil Vapor Sample Collection

Four (4) sub-slab soil vapor samples were collected from approximately 6-inches beneath the floor slab. Each sample was collected in a 6-Liter Summa canister with a regulator set to fill over the course of approximately two (2) hours. Each Summa canister was submitted for analysis of VOCs via TO-15.

2.2.4 Limited Geophysical Survey

Ground Penetrating Radar Systems, LLC (GPRS), under the direction of GEI, performed an electronic magnetometer (EM) and ground penetrating radar (GPR) survey to identify and determine the location of any unknown subsurface features of potential environmental concern (anomalies) such as USTs, underground drainage systems, or hydraulic lifts. GPRS used a Geophysical Survey Systems Inc. SIR-3000 cart-mounted GPR unit with a 400 MHz and Radio detection RD7000 precision utility locator to collect data from selected boring locations and an area in the southwestern portion of the project Site that is likely the former location of the 550-gallon gasoline USTs.

2.2.5 On-Site Field Activities

Cascade utilized a Geoprobe® Model 7822DT with MacroCore sleeves for the boring locations. Soil borings were advanced in continuous 5-foot intervals and were completed with a dedicated, acetate liner used to retrieve and observe the soil. The soil was inspected for staining and odors prior to field screening for organic vapors utilizing a photoionization detector (PID).

2.3 Sampling Activities

GEI implements a Quality Assurance and Quality Control Plan (QA/QC) to ensure sample integrity and avoid contamination and/or cross-contamination of samples. All reusable sampling equipment was cleaned before each sample was collected and disposable, one-use equipment (i.e., disposable nitrile gloves) were utilized to the extent possible during this sampling event. Preference to sampling was given to soils that had the greatest impacts noted, either by visual staining or record of elevated organic vapors identified by the PID. Samples were selected for laboratory analysis as follows:

- The 0-2-foot interval bls, (in this case below the building's floor slab);
- The 2-foot interval exhibiting the highest PID reading and/or visual and/or olfactory observations indicating impacts;
- If no impacts are observed, the 0-2-foot bls and 2-foot interval immediately above the water table or bedrock (if encountered);
- If no impacts were observed, and the water table/bedrock were not observed, the 10- to 12-foot bls interval was be selected for analysis, as this would represent the typical depth of redevelopment excavation for structures with a potential basement.

2.4 Soil Quality

The boring and sampling locations are identified on **Figure 2**. Boring logs that detail the sampling, PID readings and sensory findings are included as **Appendix A**. The soil composition of the eight (8) borings was similar, with predominantly fine to medium-grained sand along with silt found to exist from the surface to the terminus of the borings. Groundwater was encountered in two borings at approximately 23 feet bls.

During the sampling, a petroleum-like odor, along with an elevated PID reading were observed at location SB-2 at the intersection of the groundwater table. No other petroleum odors or elevated PID readings or other visual/olfactory signs of contamination were noted during the investigation.

The selected soil sample from each test boring location was collected and placed in laboratory supplied sample jars. The sample jars were then placed in a cooler on ice and chilled in accordance with standard operating procedures prior to delivery to the laboratory for analysis.

3. Sample Analysis Findings

Samples collected during the field work were submitted for analysis to York Analytical Laboratories (York) located at 120 Research Drive, Stratford, Connecticut. York is National Environmental Laboratory Accreditation Program laboratory with certification in New York as NY Lab Id No. 10854. The laboratory analytical reports and associated Chain-of-Custody forms are provided in **Appendix B**.

Table 1 presents the soil sampling results (SB-1 through SB-8) and a comparison to NYSDEC Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives (UUSCOs) and NYSDEC Part 375-6.8(b) Restricted Residential Use Soil Cleanup Objectives (RRUSCOs). The soil samples were analyzed for TCL VOCs by USEPA 8260, TCL SVOCs by USEPA Method 8270, TAL Metals, Pesticides by USEPA 8081, and PCBs by USEPA Method 8082.

Table 2 presents the groundwater sampling results (SB-2[GW]) and (SB-5[GW]) provides a comparison to NYSDEC Division of Water Technical and Operation Guidance Series (TOGS) Guidance Values. The groundwater samples were analyzed for TCL VOCs by USEPA 8260, TCL SVOCs by USEPA Method 8270, TAL Metals, Pesticides by USEP547A 8081, and PCBs by USEPA Method 8082.

Table 3 presents the soil vapor sampling results (SV-1 through SV-4) and a comparison to the New York State Department of Health (NYSDOH) Center for Environmental Health (CEH) Bureau of Environmental Exposure Investigation (BEEI) Final Guidance for Evaluation Soil Vapor Intrusion in the state of New York (updated May 2017).

4. Summary, Conclusions, and Recommendations

This investigation was performed to determine the present environmental conditions at the Site, in support of property transfer.

Summary and Conclusions

Limited Geophysical Survey

All proposed soil boring locations were cleared of private utilities on August 9, 2018 by GPRS. Additionally, the southeastern quadrant of the Site was scanned for the presence of USTs. No USTs were identified during the limited geophysical survey.

Soil Quality

The results included exceedances of RRUSCOs for metals in six (6) of eight (8) borings, SVOCs in four (4) borings, and PCBs in two (2) borings. Metals and Total PCBs were detected at the highest concentrations in SB-3 at a depth of 0-2 feet bls. SVOCs were detected above RRUSCOS in four borings, with the highest concentrations revealed in SB-7 at a depth of 0-2 feet. Pesticides were also detected at concentrations above UUSCOs but below RRUSCOs in four (4) borings, with the highest concentration detected in boring SB-8 at a depth of 0-2 feet.

No soil impacts were observed in the areas of the RECs identified in the Phase I ESA. The sitewide, predominantly shallow distribution and nature of these impacts (metals, SVOCs, pesticides, and PCBs) are typical of urban fill throughout New York City and do not represent a significant source area of contamination at the Site. The presence of fill material beneath the Site is unlikely to impede redevelopment of the Site. As part of the requirements of the NYCOER E-designation program, any soil/fill material removed from the Site will require appropriate characterization and disposal at permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal of such material.

Groundwater Quality

VOCs including 1,2,4-Trimethlybenzene, 1,3,5-Trimethlybenzene, Chloroform, Isopropylbenzene, n-Butylbenzene, n-Propylbenzene, and Napthalene were detected at concentrations above NYSDEC TOGs standards in groundwater sample SB-2(GW). No detections above NYSDEC TOGs Guidance Values were detected in groundwater sample SB-5 (GW).

Although no permanent groundwater monitoring wells were installed as part of this investigation, based on the Phase I findings, groundwater is anticipated to flow in a southerly

direction, toward the Harlem River. No impacts to groundwater were observed in the areas of the RECs identified in the Phase I ESA. The location of the limited degraded hydrocarbon detections in groundwater at SB-2(GW) on the upgradient side of the Site, on the opposite side of the building from the locations of former USTs associated with historical operations, is indicative of an upgradient off-Site source impacting groundwater that travels beneath the north-northwestern corner of the Site. The lack of detections in the groundwater sample collected at SB-5(GW) further supports the limited nature of the groundwater impacts. The limited impacts to groundwater in SB-2(GW) are unlikely to impede redevelopment at the Site since groundwater in New York City is not utilized for municipal purposes, potable water is acquired through the New York City public water supply.

Soil Vapor Quality

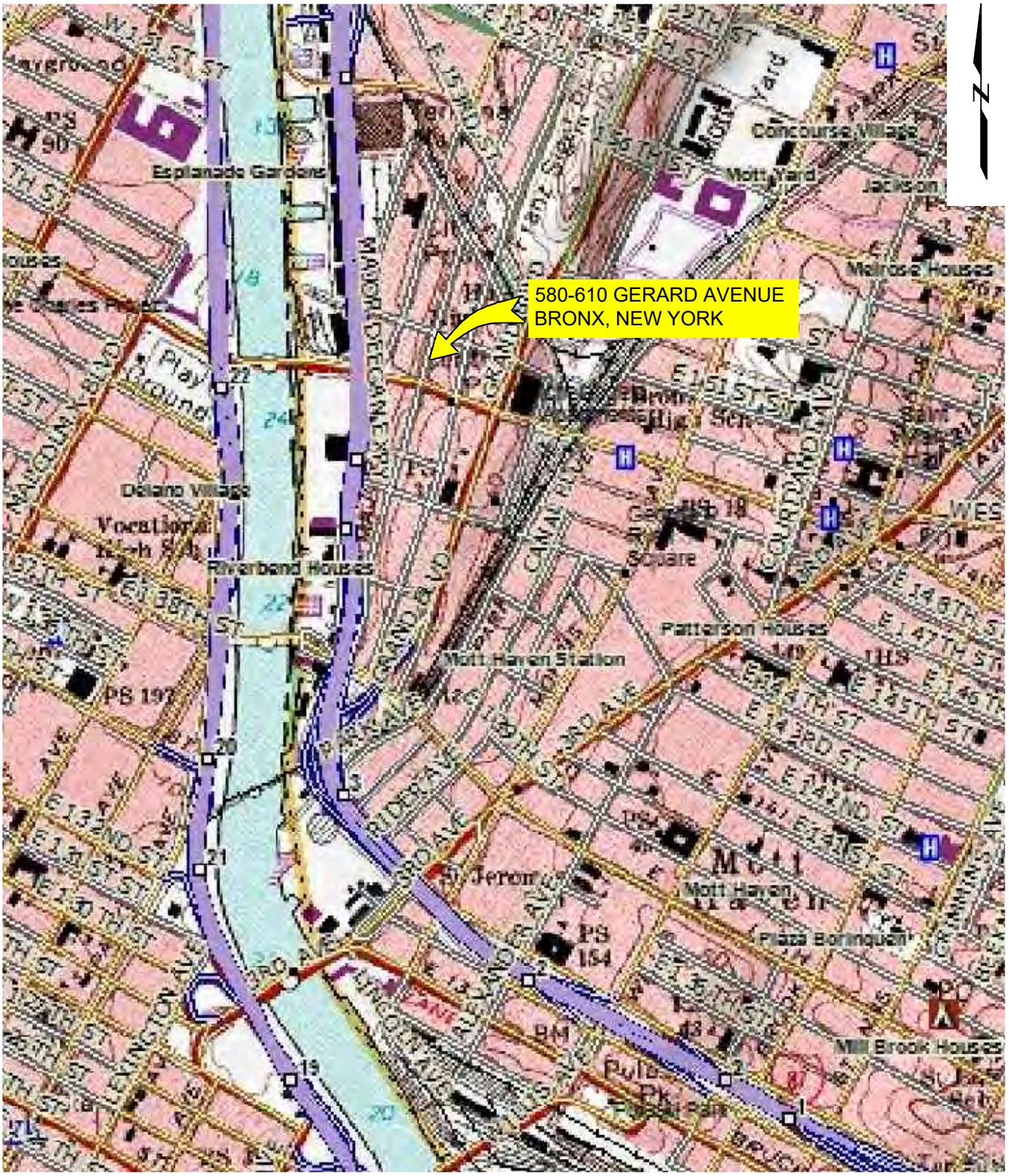
VOCs were detected in soil vapor at predominantly low levels throughout the project Site. No impacts to soil vapor were observed in the areas of the RECs identified in the Phase I ESA. The concentrations are typical of locations where urban fill soil is found in the subsurface soil materials. However, elevated tetrachloroethene was detected in soil vapor sample SV-2. Sample results for tetrachloroethene in groundwater or soil samples both in the vicinity of SV-2, and across the Site as a whole, were either non-detect or two to three orders of magnitude below the UUSCOs, indicating this condition is unlikely to be related to an on-Site source. Based on this detection, soil vapor intrusion would need to be evaluated for any future construction on the Site.

Recommendations

Based upon the above findings, it is GEI's professional opinion that no further investigations/actions are necessary. However, the Site currently has an E-designation (E Number E-292) issued by NYCDEP during the City Environmental Quality Review process. Prior to redevelopment, the Site environmental concerns will need to be addressed through the NYCOER E-Designation Program which typically requires a full subsurface investigation, remedial and health and safety planning, implementation of a remedial program, and documentation that the remedial program was completed under the direction of NYCOER during redevelopment of the property.

As required by the NYCOER E-designation program, prior to redevelopment, a Remedial Action Work Plan (RAWP) would be prepared and a remedy will be selected based on the remedial investigation results in conjunction with the proposed redevelopment to address the soil, soil vapor, and groundwater impacts that are present on the Site. Any soil/fill material removed from the Site will require appropriate characterization and disposal at permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal of such material.

Figures



0 1000 2000

SCALE: 1" = 1000'

SOURCE:

USGS CENTRAL PARK QUADRANGLE MAP

REMEDIAL INVESTIGATION REPORT 580-610 GERARD AVENUE BRONX, NEW YORK	GEI Consultants	SITE LOCATION MAP
HUNTON ANDREWS KURTH, LLP. RICHMOND, VIRGINIA	Project 1803080	September 2018 Fig. 1

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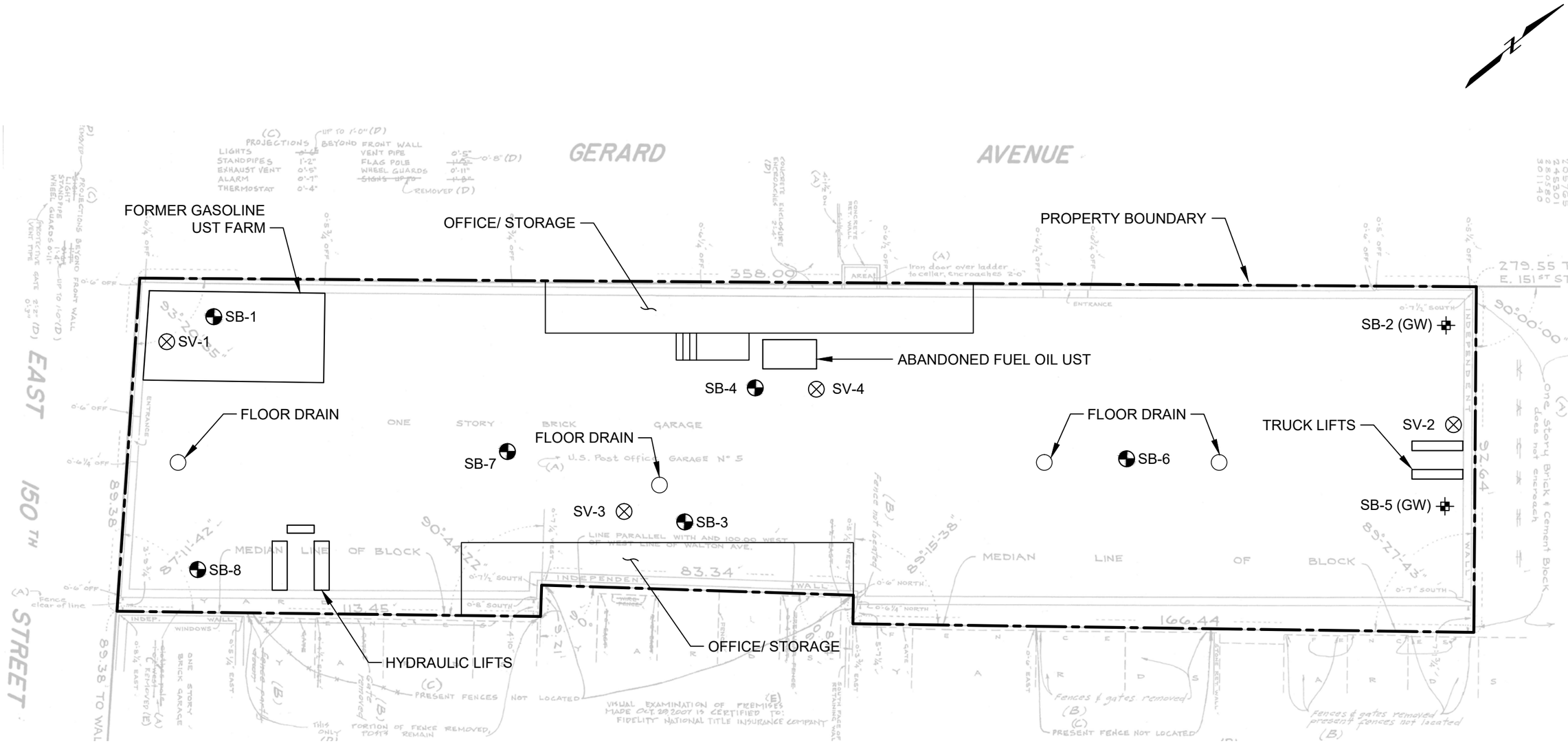

LEGEND

- SOIL BORING LOCATION
- SOIL VAPOR LOCATION
- SOIL/GROUNDWATER SAMPLE LOCATION

0 30 60

SCALE: 1" = 30'

SOURCE:

1. PLAN BASED ON MAP PREPARED BY EARL B. LOVELL - S.P. BELCHER, INC

PHASE II ENVIRONMENTAL SITE ASSESSMENT 580-610 GERARD AVENUE BRONX, NEW YORK	GEI Consultants	SAMPLE LOCATION MAP
HUNTON ANDREWS KURTH, LLP. RICHMOND, VIRGINIA	Project 1803080	September 2018 Fig. 2

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Sample Name / Depth (ft.)	SB-1 (0'-2') 0-2	SB-1 (21'-23') 21-23
Pesticides (mg/Kg)		
4,4'-DDT	0.00819 D	0.00178 U
Metals (mg/Kg)		
Copper	106	46.1
Lead	398	150
Zinc	375	129
Mercury	0.395	0.457

Sample ID / Sample Depth (ft.)	SB-4 (0'-2') 0-2	SB-4 (17'-19') 17-19
VOCs (mg/kg)		
Acetone	0.0300	0.0740
Metals (mg/gKg)		
Barium	938	29.900
Lead	397	5.460
Zinc	210	38.200
Mercury	0.909	0.0322 U
PCBs (mg/Kg)		
Total PCBs	4.97 D	0.0178

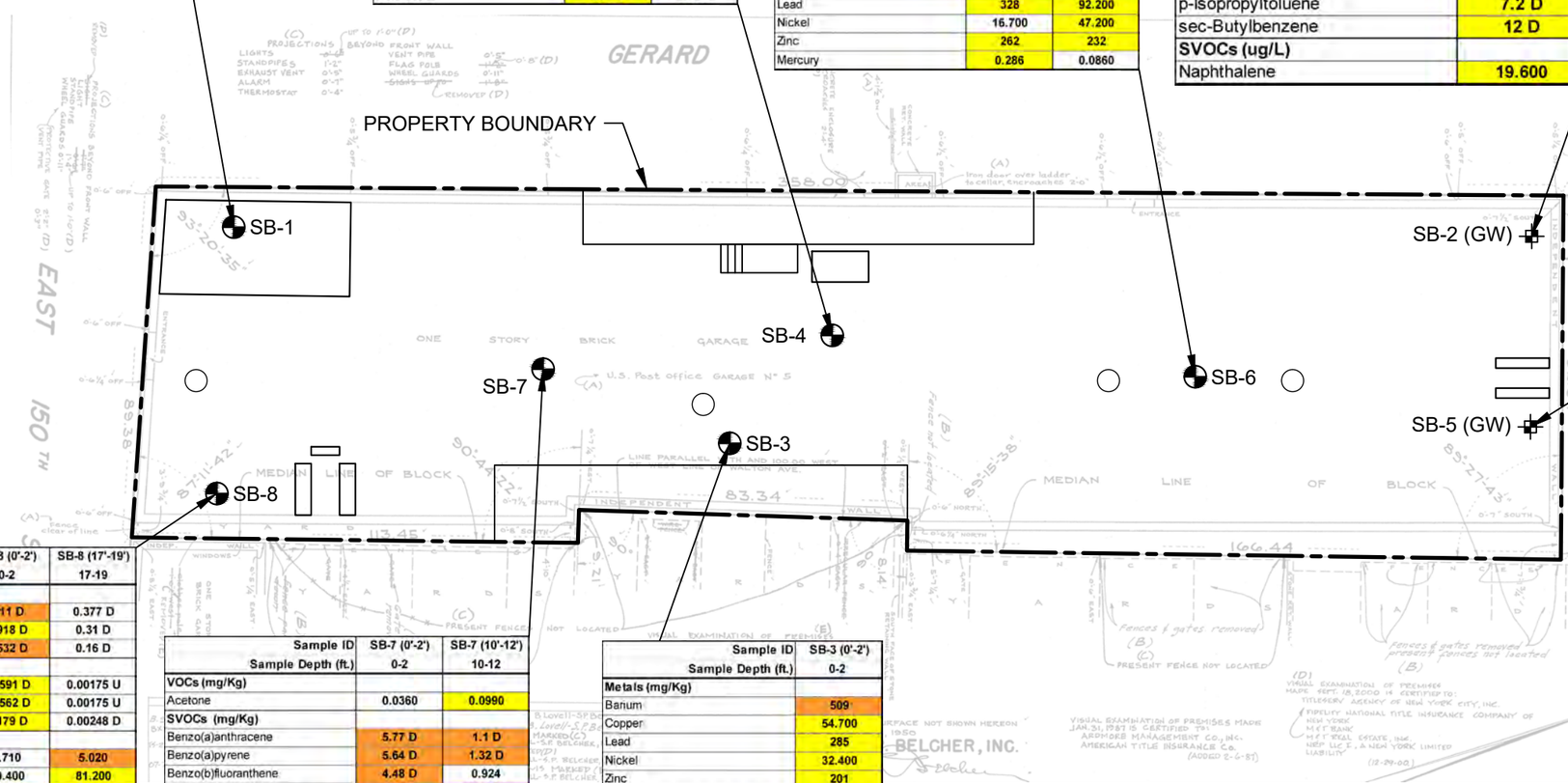
Sample ID / Sample Depth (ft.)	SB-6 (0'-2') 0-2	SB-6 (10'-12') 10-12
VOCs (mg/Kg)		
Acetone	0.110	0.140
SVOCs (mg/Kg)		
Benzo(a)anthracene	1.05 D	0.143 D
Benzo(a)pyrene	1.1 D	0.165 D
Benzo(k)fluoranthene	0.903 D	0.153 D
Chrysene	1.09 D	0.16 D
Indeno(1,2,3-cd)pyrene	0.515 D	0.088 D
Pesticides (mg/Kg)		
4,4'-DDT	0.00469 D	0.00207 D
Metals (mg/Kg)		
Barium	215	879
Lead	328	92.200
Nickel	16.700	47.200
Zinc	262	232
Mercury	0.286	0.0860

Sample ID	SB-2 (GW)
VOCs (ug/L)	
1,2,4-Trimethylbenzene	1200 D
1,3,5-Trimethylbenzene	340 D
Chloroform	10 D
Isopropylbenzene	47 D
n-Butylbenzene	43 D
n-Propylbenzene	110 D
p-Isopropyltoluene	7.2 D
sec-Butylbenzene	12 D
SVOCs (ug/L)	
Naphthalene	19.600

Sample Name / Depth (ft.)	SB-2 (0'-2') 0-2	SB-2 (21'-23') 21-23
SVOCs (mg/Kg)		
Benzo(a)anthracene	1.22 D	0.472 D
Benzo(a)pyrene	1.27 D	0.527 D
Benzo(b)fluoranthene	1.03 D	0.433 D
Benzo(k)fluoranthene	1.09 D	0.467 D
Chrysene	1.27 D	0.467 D
Indeno(1,2,3-cd)pyrene	0.589 D	0.258 D
Pesticides (mg/Kg)		
4,4'-DDT	0.00684 DP	0.0107 D
Metals (mg/Kg)		
Barium	876	495
Lead	109	35.6
Zinc	259	117

Sample ID	SB-5 (GW)
VOCs (ug/L)	
Chloroform	16

Sample ID / Sample Depth (ft.)	SB-5 (0'-2') 0-2	SB-5 (10'-12') 10-12
VOCs (mg/Kg)		
Acetone	0.4	0.170



Sample ID / Sample Depth (ft.)	SB-8 (0'-2') 0-2	SB-8 (17'-19') 17-19
SVOCs (mg/Kg)		
Benzo(a)pyrene	1.11 D	0.377 D
Benzo(k)fluoranthene	0.918 D	0.31 D
Indeno(1,2,3-cd)pyrene	0.532 D	0.16 D
Pesticides (mg/Kg)		
4,4'-DDD	0.0591 D	0.00175 U
4,4'-DDE	0.0562 D	0.00175 U
4,4'-DDT	0.179 D	0.00248 D
Metals (mg/Kg)		
Cadmium	0.710	5.020
Copper	39.400	81.200
Lead	225	273
Zinc	554	2,110
Mercury	1.710	0.780
PCBs (mg/Kg)		
Total PCBs	0.958	0.0176 U

Sample ID / Sample Depth (ft.)	SB-7 (0'-2') 0-2	SB-7 (10'-12') 10-12
VOCs (mg/Kg)		
Acetone	0.0360	0.0990
SVOCs (mg/Kg)		
Benzo(a)anthracene	5.77 D	1.1 D
Benzo(a)pyrene	5.64 D	1.32 D
Benzo(b)fluoranthene	4.48 D	0.924
Benzo(k)fluoranthene	4.59 D	0.928 D
Chrysene	6.09 D	1.21 D
Dibenzo(a,h)anthracene	1.09 D	0.216
Indeno(1,2,3-cd)pyrene	2.84 D	0.538 D
Pesticides (mg/Kg)		
4,4'-DDT	0.0114 D	0.00179 U
Metals (mg/Kg)		
Copper	103	98.600
Lead	358	338
Zinc	253	210
Mercury	0.694	0.583
PCBs (mg/Kg)		
Total PCBs	0.109	0.0181 U

Sample ID / Sample Depth (ft.)	SB-3 (0'-2') 0-2
Metals (mg/Kg)	
Banum	509
Copper	54.700
Lead	285
Nickel	32.400
Zinc	201
Mercury	0.474
PCBs (mg/Kg)	
Total PCBs	9.11 D

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

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

U=analyte not detected at or above the level indicated

B=analyte found in the analysis batch blank

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

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

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

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

Analyte	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential
VOCs (mg/Kg)		
Acetone	0.05	100
SVOCs (mg/Kg)		
Benzo(a)anthracene	1	1
Benzo(a)pyrene	1	1
Benzo(b)fluoranthene	1	1
Benzo(k)fluoranthene	0.8	1
Chrysene	1	1
Dibenzo(a,h)anthracene	0.33	0.33
Indeno(1,2,3-cd)pyrene	0.5	0.5
Pesticides (mg/Kg)		
4,4'-DDD	0.0033	2.6
4,4'-DDE	0.0033	1.8
4,4'-DDT	0.0033	1.7
Metals (mg/kg)		
Barium	350	350
Cadmium	2.5	2.5
Copper	50	270
Lead	63	400
Nickel	30	140
Zinc	109	2200
Mercury	0.18	0.81
PCBs (mg/Kg)		
Total PCBs	0.1	1

0 40 80

SCALE: 1" = 40'

LEGEND

SOIL BORING LOCATION

SOURCE:

1. PLAN BASED ON MAP PREPARED BY EARL B. LOVELL - S.P. BELCHER, INC

PHASE II ENVIRONMENTAL SITE ASSESSMENT
580-610 GERARD AVENUE
BRONX, NEW YORK

HUNTON ANDREWS KURTH, LLP.
RICHMOND, VIRGINIA

GEI Consultants

Project 1803080

SOIL AND GROUNDWATER SAMPLE LOCATION MAP

September 2018

Fig. 3

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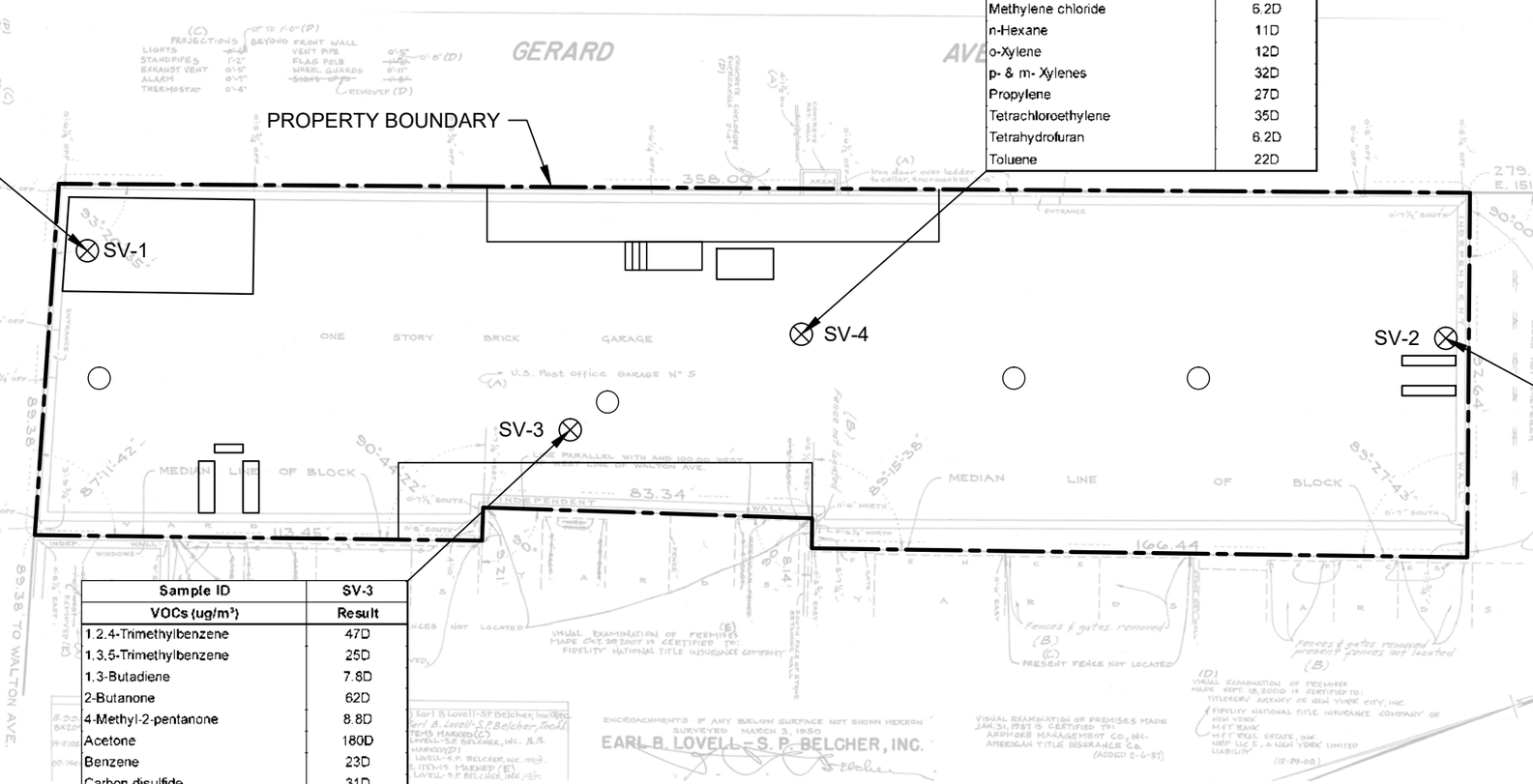

Sample ID	SV-1
VOCs (ug/m³)	Result
1.1.1-Trichloroethane	4.6D
1.2.4-Trimethylbenzene	8.2D
1.3-Butadiene	4.5D
1.3-Dichlorobenzene	7.7D
2-Butanone	120D
4-Methyl-2-pentanone	8D
Acetone	660D
Benzene	7.6D
Cyclohexane	7.2D
Ethyl Benzene	7.5D
Isopropanol	140D
n-Heptane	21D
n-Hexane	11D
o-Xylene	11D
p- & m- Xylenes	30D
Propylene	28D
Tetrachloroethylene	56D
Tetrahydrofuran	16D
Toluene	26D

Sample ID	SV-3
VOCs (ug/m³)	Result
1.2.4-Trimethylbenzene	47D
1.3.5-Trimethylbenzene	25D
1.3-Butadiene	7.8D
2-Butanone	62D
4-Methyl-2-pentanone	8.8D
Acetone	180D
Benzene	23D
Carbon disulfide	31D
Chloroform	4.5D
Chloromethane	3.3D
Cyclohexane	46D
Ethyl Benzene	22D
Isopropanol	60D
Methyl tert-butyl ether (MTBE)	8.4D
Methylene chloride	6.9D
n-Heptane	120D
n-Hexane	75D
o-Xylene	28D
p- & m- Xylenes	73D
p-Ethyltoluene	29D
Propylene	130DE
Tetrachloroethylene	44D
Tetrahydrofuran	22D
Toluene	47D

Sample ID	SV-4
VOCs (ug/m³)	Result
1.2.4-Trimethylbenzene	12D
2-Butanone	25D
4-Methyl-2-pentanone	3.5D
Acetone	110D
Benzene	3.1D
Carbon disulfide	43D
Chloromethane	1.9D
Cyclohexane	11D
Ethyl Benzene	8.2D
Isopropanol	47D
Methylene chloride	6.2D
n-Hexane	11D
o-Xylene	12D
p- & m- Xylenes	32D
Propylene	27D
Tetrachloroethylene	35D
Tetrahydrofuran	6.2D
Toluene	22D

Sample ID	SV-2
VOCs (ug/m³)	Result
1.2.4-Trimethylbenzene	10D
2-Butanone	26D
Acetone	150D
Benzene	4.4D
Carbon disulfide	12D
Chloromethane	1.6D
Cyclohexane	3.7D
Ethyl Benzene	7.9D
Isopropanol	67D
Methylene chloride	37D
n-Hexane	8.4D
o-Xylene	11D
p- & m- Xylenes	31D
Propylene	15D
Tetrachloroethylene	460D
Tetrahydrofuran	5.6D
Toluene	18D

Note
D=result is from an analysis that required a dilution

0 40 80
SCALE: 1" = 40'

LEGEND
⊗ SOIL VAPOR LOCATION

SOURCE:
1. PLAN BASED ON MAP PREPARED BY EARL B. LOVELL - S.P. BELCHER, INC

PHASE II ENVIRONMENTAL SITE ASSESSMENT
580-610 GERARD AVENUE
BRONX, NEW YORK

HUNTON ANDREWS KURTH, LLP.
RICHMOND, VIRGINIA

GEI Consultants

SOIL VAPOR SAMPLE LOCATION MAP

Project 1803080 | September 2018 | Fig. 4

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Tables

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	SB-1 (0'-2') 8/10/2018 Soil		SB-1 (21'-23') 8/10/2018 Soil		SB-2 (0'-2') 8/10/2018 Soil		SB-2 (21'-23') 8/10/2018 Soil		SB-3 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Volatile Organics, 8260 - Comprehensive	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
1,1,1,2-Tetrachloroethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,1,1-Trichloroethane	0.68	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,1,2,2-Tetrachloroethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,1,2-Trichloroethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,1-Dichloroethane	0.27	19	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,1-Dichloroethylene	0.33	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,2,3-Trichlorobenzene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,2,3-Trichloropropane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,2,4-Trichlorobenzene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,2,4-Trimethylbenzene	3.6	47	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.022	
1,2-Dibromo-3-chloropropane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,2-Dibromoethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,2-Dichlorobenzene	1.1	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,2-Dichloroethane	0.02	2.3	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,2-Dichloropropane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,3,5-Trimethylbenzene	8.4	47	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0096	
1,3-Dichlorobenzene	2.4	17	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,4-Dichlorobenzene	1.8	9.8	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,4-Dioxane	0.1	9.8	0.055	U	0.0540	U	0.0520	U	0.051	U	0.054	U
2-Butanone	0.12	100	0.0028	U	0.0027	U	0.0026	U	0.0040	J	0.0027	U
2-Hexanone	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
4-Methyl-2-pentanone	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Acetone	0.05	100	0.0083	J	0.023		0.035		0.031		0.041	
Acrolein	~	~	0.0055	U	0.0054	U	0.0052	U	0.0051	U	0.0054	U
Acrylonitrile	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Benzene	0.06	2.9	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Bromochloromethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Bromodichloromethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Bromoform	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Bromomethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Carbon disulfide	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Carbon tetrachloride	0.76	1.4	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Chlorobenzene	1.1	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Chloroethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Chloroform	0.37	10	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Chloromethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
cis-1,2-Dichloroethylene	0.25	59	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
cis-1,3-Dichloropropylene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Cyclohexane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Dibromochloromethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Dibromomethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Dichlorodifluoromethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Ethyl Benzene	1	30	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0034	J
Hexachlorobutadiene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	SB-1 (0'-2') 8/10/2018 Soil		SB-1 (21'-23') 8/10/2018 Soil		SB-2 (0'-2') 8/10/2018 Soil		SB-2 (21'-23') 8/10/2018 Soil		SB-3 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Isopropylbenzene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Methyl acetate	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Methyl tert-butyl ether (MTBE)	0.93	62	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Methylcyclohexane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Methylene chloride	0.05	51	0.0055	U	0.0054	U	0.0052	U	0.0051	U	0.0054	U
n-Butylbenzene	12	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
n-Propylbenzene	3.9	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
o-Xylene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0075	
p- & m- Xylenes	~	~	0.0055	U	0.0054	U	0.0052	U	0.0051	U	0.0140	
p-Isopropyltoluene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
sec-Butylbenzene	11	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Styrene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
tert-Butyl alcohol (TBA)	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0072	
tert-Butylbenzene	5.9	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Tetrachloroethylene	1.3	5.5	0.0077		0.0027	U	0.0065		0.0074		0.0027	U
Toluene	0.7	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0062	
trans-1,2-Dichloroethylene	0.19	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
trans-1,3-Dichloropropylene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
trans-1,4-dichloro-2-butene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Trichloroethylene	0.47	10	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Trichlorofluoromethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Vinyl Chloride	0.02	0.21	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Xylenes, Total	0.26	100	0.0083	U	0.0081	U	0.0078	U	0.0077	U	0.022	
Semi-Volatiles, 8270 - Comprehensive	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			2		2		2		2		2	
1,1-Biphenyl	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
1,2,4,5-Tetrachlorobenzene	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
1,2,4-Trichlorobenzene	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
1,2-Dichlorobenzene	1.1	100	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
1,2-Diphenylhydrazine (as Azobenzene)	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
1,3-Dichlorobenzene	2.4	17	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
1,4-Dichlorobenzene	1.8	9.8	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2,3,4,6-Tetrachlorophenol	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
2,4,5-Trichlorophenol	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2,4,6-Trichlorophenol	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2,4-Dichlorophenol	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2,4-Dimethylphenol	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2,4-Dinitrophenol	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
2,4-Dinitrotoluene	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2,6-Dinitrotoluene	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2-Chloronaphthalene	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2-Chlorophenol	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2-Methylnaphthalene	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2-Methylphenol	0.33	100	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2-Nitroaniline	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
2-Nitrophenol	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
3- & 4-Methylphenols	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	SB-1 (0'-2') 8/10/2018 Soil		SB-1 (21'-23') 8/10/2018 Soil		SB-2 (0'-2') 8/10/2018 Soil		SB-2 (21'-23') 8/10/2018 Soil		SB-3 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
3,3-Dichlorobenzidine	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
3-Nitroaniline	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
4,6-Dinitro-2-methylphenol	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
4-Bromophenyl phenyl ether	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
4-Chloro-3-methylphenol	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
4-Chloroaniline	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
4-Chlorophenyl phenyl ether	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
4-Nitroaniline	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
4-Nitrophenol	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
Acenaphthene	20	100	0.0590	JD	0.0451	U	0.215	D	0.0427	U	0.0454	U
Acenaphthylene	100	100	0.112	D	0.0451	U	0.0739	JD	0.114	D	0.0454	U
Acetophenone	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Aniline	~	~	0.185	U	0.180	U	0.173	U	0.171	U	0.182	U
Anthracene	100	100	0.171	D	0.0451	U	0.366	D	0.116	D	0.0454	U
Atrazine	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Benzaldehyde	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Benzidine	~	~	0.185	U	0.180	U	0.173	U	0.171	U	0.182	U
Benzo(a)anthracene	1	1	0.692	D	0.131	D	**1.22**	D	0.472	D	0.108	D
Benzo(a)pyrene	1	1	0.824	D	0.173	D	**1.27**	D	0.527	D	0.159	D
Benzo(b)fluoranthene	1	1	0.659	D	0.137	D	**1.03**	D	0.433	D	0.160	D
Benzo(g,h,i)perylene	100	100	0.433	D	0.152	D	0.600	D	0.269	D	0.147	D
Benzo(k)fluoranthene	0.8	1	0.703	D	0.129	D	**1.09**	D	0.467	D	0.125	D
Benzoic acid	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Benzyl alcohol	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Benzyl butyl phthalate	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0522	JD
Bis(2-chloroethoxy)methane	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Bis(2-chloroethyl)ether	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Bis(2-chloroisopropyl)ether	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Bis(2-ethylhexyl)phthalate	~	~	0.0664	JD	0.0451	U	0.0497	JD	0.290	D	0.0454	U
Caprolactam	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
Carbazole	~	~	0.0561	JD	0.0451	U	0.155	D	0.0427	U	0.0454	U
Chrysene	1	1	0.739	D	0.147	D	**1.27**	D	0.467	D	0.129	D
Dibenzo(a,h)anthracene	0.33	0.33	0.161	D	0.0451	U	0.222	D	0.0988	D	0.0454	U
Dibenzofuran	7	14	0.0463	U	0.0451	U	0.0794	JD	0.0427	U	0.0454	U
Diethyl phthalate	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Dimethyl phthalate	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Di-n-butyl phthalate	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Di-n-octyl phthalate	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Fluoranthene	100	100	1.360	D	0.234	D	2.370	D	0.929	D	0.116	D
Fluorene	30	100	0.0480	JD	0.0451	U	0.116	D	0.0427	U	0.0454	U
Hexachlorobenzene	0.33	0.33	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Hexachlorobutadiene	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Hexachlorocyclopentadiene	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Hexachloroethane	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.370	D	0.0920	D	**0.589**	D	0.258	D	0.125	D
Isophorone	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Naphthalene	12	100	0.0463	U	0.0451	U	0.0829	JD	0.0427	U	0.0454	U

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	SB-1 (0'-2') 8/10/2018 Soil		SB-1 (21'-23') 8/10/2018 Soil		SB-2 (0'-2') 8/10/2018 Soil		SB-2 (21'-23') 8/10/2018 Soil		SB-3 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Nitrobenzene	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
N-Nitrosodimethylamine	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
N-nitroso-di-n-propylamine	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
N-Nitrosodiphenylamine	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Pentachlorophenol	0.8	2.4	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Phenanthrene	100	100	0.624	D	0.119	D	1.520	D	0.515	D	0.0486	JD
Phenol	0.33	100	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Pyrene	100	100	1.160	D	0.220	D	2	D	0.840	D	0.112	D
Pesticides, 8081 target list	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			5		5		5		5		5	
4,4'-DDD	0.0033	2.6	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
4,4'-DDE	0.0033	1.8	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
4,4'-DDT	0.0033	1.7	**0.00819**	D	0.00178	U	**0.00684**	DP	**0.0107**	D	0.00178	U
Aldrin	0.005	0.019	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
alpha-BHC	0.02	0.097	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
alpha-Chlordane	0.094	0.91	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
beta-BHC	0.036	0.072	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
Chlordane, total	~	~	0.0365	U	0.0356	U	0.0340	U	0.0337	U	0.0357	U
delta-BHC	0.04	100	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
Dieldrin	0.005	0.039	0.00239	D	0.00178	U	0.00261	D	0.00411	DP	0.00178	U
Endosulfan I	2.4	4.8	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
Endosulfan II	2.4	4.8	0.00183	U	0.00178	U	0.00170	U	0.00364	DP	0.00178	U
Endosulfan sulfate	2.4	4.8	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
Endrin	0.014	2.2	0.00514	D	0.00178	U	0.00348	D	0.00923	D	0.00178	U
Endrin aldehyde	~	~	0.00230	D	0.00178	U	0.00217	D	0.00355	D	0.00178	U
Endrin ketone	~	~	0.00660	DP	0.00178	U	0.00170	U	0.0128	DP	0.00178	U
gamma-BHC (Lindane)	0.1	0.28	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
gamma-Chlordane	~	~	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
Heptachlor	0.042	0.42	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
Heptachlor epoxide	~	~	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
Methoxychlor	~	~	0.00913	U	0.00890	U	0.00849	U	0.00842	U	0.00892	U
Toxaphene	~	~	0.0924	U	0.0901	U	0.0860	U	0.0852	U	0.0903	U
Metals, Target Analyte	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
Aluminum	~	~	7,690		11,700		9,310		15,300		16,900	
Antimony	~	~	3.370	B	2.180	B	1.550	B	2.880	B	3.590	B
Arsenic	13	16	7.140		4.200		4.570		4.790		5.570	
Barium	350	350	253		162		**875**		**495**		**509**	
Beryllium	7.2	14	0.138		0.108	U	0.104	U	0.102	U	0.109	U
Cadmium	2.5	2.5	0.713		0.324	U	0.399		0.344		0.659	
Calcium	~	~	15,400		15,300		8,150		6,910		12,600	
Chromium	~	~	19.400		23		17.700		43.800		41.700	
Cobalt	~	~	7.950		14.200		7.610		14.500		17.500	
Copper	50	270	**106**		46.100		29.800		27.200		**54.7**	
Iron	~	~	17,900		24,300		14,700		29,300		31600	
Lead	63	400	**398**		**150**		**109**		35.600		**285**	
Magnesium	~	~	4,150		7,310		3,900		7,500		9,970	

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Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	SB-1 (0'-2') 8/10/2018 Soil		SB-1 (21'-23') 8/10/2018 Soil		SB-2 (0'-2') 8/10/2018 Soil		SB-2 (21'-23') 8/10/2018 Soil		SB-3 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Manganese	1600	2000	348		359		294		408		362	
Nickel	30	140	22.100		24		15.500		23.700		**32.4**	
Potassium	~	~	1,720	B	3,890	B	1,860	B	8,780	B	8,690	B
Selenium	3.9	36	1.110	U	1.080	U	1.040	U	1.020	U	1.090	U
Silver	2	36	0.554	U	0.541	U	0.518	U	0.511	U	0.544	U
Sodium	~	~	339	B	200	B	169	B	195	B	319	B
Thallium	~	~	1.110	U	1.080	U	1.040	U	1.020	U	1.090	U
Vanadium	~	~	22.900		31.300		21.600		46.700		47.500	
Zinc	109	2200	**375**		**129**		**259**		**117**		**201**	
Mercury by 7473	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
Mercury	0.18	0.81	**0.395**		**0.457**		0.171		0.0959		**0.474**	
Total Solids			%		%		%		%		%	
Dilution Factor			1		1		1		1		1	
% Solids	~	~	90.3		92.5		96.6		97.8		92	
Polychlorinated Biphenyls (PCB)	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		10	
Aroclor 1016	~	~	0.0184	U	0.018	U	0.0172	U	0.017	U	0.18	U
Aroclor 1221	~	~	0.0184	U	0.018	U	0.0172	U	0.017	U	0.18	U
Aroclor 1232	~	~	0.0184	U	0.018	U	0.0172	U	0.017	U	0.18	U
Aroclor 1242	~	~	0.0184	U	0.018	U	0.0172	U	0.017	U	0.18	U
Aroclor 1248	~	~	0.0184	U	0.018	U	0.0172	U	0.017	U	0.18	U
Aroclor 1254	~	~	0.0184	U	0.018	U	0.0172	U	0.017	U	7.69	D
Aroclor 1260	~	~	0.0184	U	0.018	U	0.0342		0.0499		1.41	D
Total PCBs	0.1	1	0.0184	U	0.018	U	0.0342		0.0499		**9.11**	D

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	SB-4 (0'-2') 8/10/2018 Soil		SB-4 (17'-19') 8/10/2018 Soil		SB-5 (0'-2') 8/10/2018 Soil		SB-5 (10'-12') 8/10/2018 Soil		SB-6 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Volatile Organics, 8260 - Comprehensive	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
1,1,1,2-Tetrachloroethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,1,1-Trichloroethane	0.68	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,1,2,2-Tetrachloroethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,1,2-Trichloroethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,1-Dichloroethane	0.27	19	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,1-Dichloroethylene	0.33	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2,3-Trichlorobenzene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2,3-Trichloropropane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2,4-Trichlorobenzene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2,4-Trimethylbenzene	3.6	47	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2-Dibromo-3-chloropropane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2-Dibromoethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2-Dichlorobenzene	1.1	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2-Dichloroethane	0.02	2.3	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2-Dichloropropane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,3,5-Trimethylbenzene	8.4	47	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,3-Dichlorobenzene	2.4	17	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,4-Dichlorobenzene	1.8	9.8	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,4-Dioxane	0.1	9.8	0.06	U	0.054	U	0.052	U	0.064	U	0.055	U
2-Butanone	0.12	100	0.003	U	0.0027	U	0.0026	U	0.011		0.0031	J
2-Hexanone	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
4-Methyl-2-pentanone	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Acetone	0.05	100	0.03		**0.074**		0.040		**0.17**		**0.11**	
Acrolein	~	~	0.006	U	0.0054	U	0.0052	U	0.0064	U	0.0055	U
Acrylonitrile	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Benzene	0.06	2.9	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0031	J
Bromochloromethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Bromodichloromethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Bromoform	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Bromomethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Carbon disulfide	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Carbon tetrachloride	0.76	1.4	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Chlorobenzene	1.1	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Chloroethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Chloroform	0.37	10	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Chloromethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
cis-1,2-Dichloroethylene	0.25	59	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
cis-1,3-Dichloropropylene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Cyclohexane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Dibromochloromethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Dibromomethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Dichlorodifluoromethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Ethyl Benzene	1	30	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Hexachlorobutadiene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	SB-4 (0'-2') 8/10/2018 Soil		SB-4 (17'-19') 8/10/2018 Soil		SB-5 (0'-2') 8/10/2018 Soil		SB-5 (10'-12') 8/10/2018 Soil		SB-6 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Isopropylbenzene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Methyl acetate	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Methyl tert-butyl ether (MTBE)	0.93	62	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Methylcyclohexane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Methylene chloride	0.05	51	0.006	U	0.0054	U	0.0052	U	0.012	J	0.0055	U
n-Butylbenzene	12	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
n-Propylbenzene	3.9	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
o-Xylene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
p- & m- Xylenes	~	~	0.006	U	0.0054	U	0.0052	U	0.0064	U	0.0055	U
p-Isopropyltoluene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
sec-Butylbenzene	11	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Styrene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
tert-Butyl alcohol (TBA)	~	~	0.011		0.014		0.0026	U	0.14		0.017	
tert-Butylbenzene	5.9	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Tetrachloroethylene	1.3	5.5	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Toluene	0.7	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
trans-1,2-Dichloroethylene	0.19	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
trans-1,3-Dichloropropylene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
trans-1,4-dichloro-2-butene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Trichloroethylene	0.47	10	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Trichlorofluoromethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Vinyl Chloride	0.02	0.21	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Xylenes, Total	0.26	100	0.009	U	0.008	U	0.0078	U	0.0097	U	0.0083	U
Semi-Volatiles, 8270 - Comprehensive	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			2		2		2		2		2	
1,1-Biphenyl	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
1,2,4,5-Tetrachlorobenzene	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
1,2,4-Trichlorobenzene	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
1,2-Dichlorobenzene	1.1	100	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
1,2-Diphenylhydrazine (as Azobenzene)	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
1,3-Dichlorobenzene	2.4	17	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
1,4-Dichlorobenzene	1.8	9.8	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2,3,4,6-Tetrachlorophenol	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
2,4,5-Trichlorophenol	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2,4,6-Trichlorophenol	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2,4-Dichlorophenol	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2,4-Dimethylphenol	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2,4-Dinitrophenol	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
2,4-Dinitrotoluene	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2,6-Dinitrotoluene	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2-Chloronaphthalene	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2-Chlorophenol	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2-Methylnaphthalene	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2-Methylphenol	0.33	100	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2-Nitroaniline	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
2-Nitrophenol	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
3- & 4-Methylphenols	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	SB-4 (0'-2') 8/10/2018 Soil		SB-4 (17'-19') 8/10/2018 Soil		SB-5 (0'-2') 8/10/2018 Soil		SB-5 (10'-12') 8/10/2018 Soil		SB-6 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
3,3-Dichlorobenzidine	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
3-Nitroaniline	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
4,6-Dinitro-2-methylphenol	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
4-Bromophenyl phenyl ether	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
4-Chloro-3-methylphenol	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
4-Chloroaniline	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
4-Chlorophenyl phenyl ether	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
4-Nitroaniline	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
4-Nitrophenol	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
Acenaphthene	20	100	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.179	D
Acenaphthylene	100	100	0.0725	JD	0.0448	U	0.0436	U	0.0538	U	0.0706	JD
Acetophenone	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Aniline	~	~	0.200	U	0.179	U	0.174	U	0.215	U	0.184	U
Anthracene	100	100	0.169	D	0.0448	U	0.0494	JD	0.0538	U	0.451	D
Atrazine	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Benzaldehyde	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Benzidine	~	~	0.200	U	0.179	U	0.174	U	0.215	U	0.184	U
Benzo(a)anthracene	1	1	0.504	D	0.0448	U	0.135	D	0.0538	U	**1.05**	D
Benzo(a)pyrene	1	1	0.560	D	0.0448	U	0.129	D	0.0538	U	**1.1**	D
Benzo(b)fluoranthene	1	1	0.469	D	0.0448	U	0.113	D	0.0538	U	0.886	D
Benzo(g,h,i)perylene	100	100	0.318	D	0.0448	U	0.0724	JD	0.0538	U	0.562	D
Benzo(k)fluoranthene	0.8	1	0.484	D	0.0448	U	0.117	D	0.0538	U	**0.903**	D
Benzoic acid	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Benzyl alcohol	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Benzyl butyl phthalate	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Bis(2-chloroethoxy)methane	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Bis(2-chloroethyl)ether	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Bis(2-chloroisopropyl)ether	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Bis(2-ethylhexyl)phthalate	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Caprolactam	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
Carbazole	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.128	D
Chrysene	1	1	0.523	D	0.0448	U	0.143	D	0.0538	U	**1.09**	D
Dibenzo(a,h)anthracene	0.33	0.33	0.104	D	0.0448	U	0.0436	U	0.0538	U	0.200	D
Dibenzofuran	7	14	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0757	JD
Diethyl phthalate	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Dimethyl phthalate	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Di-n-butyl phthalate	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Di-n-octyl phthalate	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Fluoranthene	100	100	0.980	D	0.0448	U	0.336	D	0.0867	JD	2.62	D
Fluorene	30	100	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.148	D
Hexachlorobenzene	0.33	0.33	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Hexachlorobutadiene	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Hexachlorocyclopentadiene	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Hexachloroethane	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.269	D	0.0448	U	0.0654	JD	0.0538	U	**0.515**	D
Isophorone	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Naphthalene	12	100	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U

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580-610 Gerard Avenue
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Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	SB-4 (0'-2') 8/10/2018 Soil		SB-4 (17'-19') 8/10/2018 Soil		SB-5 (0'-2') 8/10/2018 Soil		SB-5 (10'-12') 8/10/2018 Soil		SB-6 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Nitrobenzene	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
N-Nitrosodimethylamine	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
N-nitroso-di-n-propylamine	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
N-Nitrosodiphenylamine	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Pentachlorophenol	0.8	2.4	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Phenanthrene	100	100	0.561	D	0.0448	U	0.275	D	0.0635	JD	1.980	D
Phenol	0.33	100	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Pyrene	100	100	0.889	D	0.0448	U	0.276	D	0.0773	JD	2.200	D
Pesticides, 8081 target list	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			5		5		5		5		5	
4,4'-DDD	0.0033	2.6	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
4,4'-DDE	0.0033	1.8	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
4,4'-DDT	0.0033	1.7	0.00198	U	0.00176	U	0.00171	U	0.00212	U	**0.00469**	D
Aldrin	0.005	0.019	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
alpha-BHC	0.02	0.097	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
alpha-Chlordane	0.094	0.91	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
beta-BHC	0.036	0.072	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
Chlordane, total	~	~	0.0396	U	0.0352	U	0.0343	U	0.0425	U	0.0362	U
delta-BHC	0.04	100	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
Dieldrin	0.005	0.039	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00242	D
Endosulfan I	2.4	4.8	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
Endosulfan II	2.4	4.8	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
Endosulfan sulfate	2.4	4.8	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
Endrin	0.014	2.2	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00372	D
Endrin aldehyde	~	~	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00203	D
Endrin ketone	~	~	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
gamma-BHC (Lindane)	0.1	0.28	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
gamma-Chlordane	~	~	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
Heptachlor	0.042	0.42	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
Heptachlor epoxide	~	~	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
Methoxychlor	~	~	0.00989	U	0.00880	U	0.00857	U	0.0106	U	0.00904	U
Toxaphene	~	~	0.100	U	0.0891	U	0.0868	U	0.107	U	0.0915	U
Metals, Target Analyte	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
Aluminum	~	~	10,400		7,140		7,860		8,570	B	8,850	B
Antimony	~	~	1.300	B	0.536	U	0.522	U	1.940		1.640	
Arsenic	13	16	5.460		1.550		1.770		3.800		4.790	
Barium	350	350	**938**		29.900		57.300		62.100		215	
Beryllium	7.2	14	0.120	U	0.212		0.184		0.129	U	0.110	U
Cadmium	2.5	2.5	0.384		0.322	U	0.313	U	0.386	U	0.753	
Calcium	~	~	14,600		851		1,920		10,000		10,200	
Chromium	~	~	23.900		10.7		13.3		20.4		17	
Cobalt	~	~	10.300		6.060		4.830		6.370		7.6	
Copper	50	270	41.400		11.500		11.700		13.100		46.8	
Iron	~	~	18,400		13,700		11,100		13,800		14,600	
Lead	63	400	**397**		5.460		59.100		18.200		**328**	
Magnesium	~	~	4,690		2,820		2,870		3,020		3,340	

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	SB-4 (0'-2') 8/10/2018 Soil		SB-4 (17'-19') 8/10/2018 Soil		SB-5 (0'-2') 8/10/2018 Soil		SB-5 (10'-12') 8/10/2018 Soil		SB-6 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Manganese	1600	2000	293		257		289		377		240	
Nickel	30	140	19.500		12.8		11		15.600		16.700	
Potassium	~	~	2,480	B	1,040	B	1,110	B	1,700		1,460	
Selenium	3.9	36	1.200	U	1.070	U	1.040	U	1.290	U	1.1	U
Silver	2	36	0.600	U	0.536	U	0.522	U	0.644	U	0.551	U
Sodium	~	~	387	B	96.8	B	170	B	348	B	311	B
Thallium	~	~	1.200	U	1.07	U	1.040	U	1.290	U	1.100	U
Vanadium	~	~	29.200		13.9		15.4		18.6		19.9	
Zinc	109	2200	**210**		38.2		87.3		47.4		**262**	
Mercury by 7473	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
Mercury	0.18	0.81	**0.909**		0.0322	U	0.0873		0.0386	U	**0.286**	
Total Solids			%		%		%		%		%	
Dilution Factor			1		1		1		1		1	
% Solids	~	~	83.4		93.2		95.8		77.6		90.7	
Polychlorinated Biphenyls (PCB)	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			10		1		1		1		1	
Aroclor 1016	~	~	0.2	U	0.0178	U	0.0173	U	0.0214	U	0.0183	U
Aroclor 1221	~	~	0.2	U	0.0178	U	0.0173	U	0.0214	U	0.0183	U
Aroclor 1232	~	~	0.2	U	0.0178	U	0.0173	U	0.0214	U	0.0183	U
Aroclor 1242	~	~	0.2	U	0.0178	U	0.0173	U	0.0214	U	0.0183	U
Aroclor 1248	~	~	0.2	U	0.0178	U	0.0173	U	0.0214	U	0.0183	U
Aroclor 1254	~	~	1.84	D	0.0178	U	0.0173	U	0.0214	U	0.0183	U
Aroclor 1260	~	~	3.13	D	0.0178	U	0.0173	U	0.0214	U	0.0302	
Total PCBs	0.1	1	**4.97**	D	0.0178	U	0.0173	U	0.0214	U	0.0302	

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	SB-6 (10'-12') 8/10/2018 Soil		SB-7 (0'-2') 8/10/2018 Soil		SB-7 (10'-12') 8/10/2018 Soil		SB-8 (0'-2') 8/10/2018 Soil		SB-8 (17'-19') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Volatile Organics, 8260 - Comprehensive	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
1,1,1,2-Tetrachloroethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,1,1-Trichloroethane	0.68	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,1,2,2-Tetrachloroethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,1,2-Trichloroethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,1-Dichloroethane	0.27	19	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,1-Dichloroethylene	0.33	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2,3-Trichlorobenzene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2,3-Trichloropropane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2,4-Trichlorobenzene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2,4-Trimethylbenzene	3.6	47	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2-Dibromo-3-chloropropane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2-Dibromoethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2-Dichlorobenzene	1.1	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2-Dichloroethane	0.02	2.3	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2-Dichloropropane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,3,5-Trimethylbenzene	8.4	47	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,3-Dichlorobenzene	2.4	17	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,4-Dichlorobenzene	1.8	9.8	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,4-Dioxane	0.1	9.8	0.063	U	0.054	U	0.055	U	0.055	U	0.053	U
2-Butanone	0.12	100	0.021		0.0027	U	0.009		0.0027	U	0.0039	J
2-Hexanone	~	~	0.0031	U	0.0027	U	0.003	U	0.0027	U	0.0027	U
4-Methyl-2-pentanone	~	~	0.0031	U	0.0027	U	0.003	U	0.0027	U	0.0027	U
Acetone	0.05	100	**0.14**		0.036		**0.099**		0.019		0.027	
Acrolein	~	~	0.0063	U	0.0054	U	0.0055	U	0.0055	U	0.0053	U
Acrylonitrile	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Benzene	0.06	2.9	0.0031	U	0.0027	U	0.0029	J	0.0027	U	0.0027	U
Bromochloromethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Bromodichloromethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Bromoform	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Bromomethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Carbon disulfide	~	~	0.0031	U	0.0027	U	0.0039	J	0.0027	U	0.0027	U
Carbon tetrachloride	0.76	1.4	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Chlorobenzene	1.1	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Chloroethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Chloroform	0.37	10	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Chloromethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
cis-1,2-Dichloroethylene	0.25	59	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
cis-1,3-Dichloropropylene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Cyclohexane	~	~	0.0031	U	0.0027	U	0.023		0.0027	U	0.0027	U
Dibromochloromethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Dibromomethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Dichlorodifluoromethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Ethyl Benzene	1	30	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Hexachlorobutadiene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	SB-6 (10'-12') 8/10/2018 Soil		SB-7 (0'-2') 8/10/2018 Soil		SB-7 (10'-12') 8/10/2018 Soil		SB-8 (0'-2') 8/10/2018 Soil		SB-8 (17'-19') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Isopropylbenzene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Methyl acetate	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Methyl tert-butyl ether (MTBE)	0.93	62	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Methylcyclohexane	~	~	0.0031	U	0.0027	U	0.058		0.0027	U	0.0027	U
Methylene chloride	0.05	51	0.0063	U	0.0054	U	0.0055	U	0.0079	J	0.0053	U
n-Butylbenzene	12	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
n-Propylbenzene	3.9	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
o-Xylene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
p- & m- Xylenes	~	~	0.0063	U	0.0054	U	0.0055	U	0.0055	U	0.0053	U
p-Isopropyltoluene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
sec-Butylbenzene	11	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Styrene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
tert-Butyl alcohol (TBA)	~	~	0.01		0.0065		0.01		0.0027	U	0.0027	U
tert-Butylbenzene	5.9	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Tetrachloroethylene	1.3	5.5	0.0031	U	0.0027	U	0.0027	U	0.014		0.012	
Toluene	0.7	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
trans-1,2-Dichloroethylene	0.19	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
trans-1,3-Dichloropropylene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
trans-1,4-dichloro-2-butene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Trichloroethylene	0.47	10	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Trichlorofluoromethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Vinyl Chloride	0.02	0.21	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Xylenes, Total	0.26	100	0.0094	U	0.0082	U	0.0082	U	0.0082	U	0.0080	U
Semi-Volatiles, 8270 - Comprehensive	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			2		20		2		2		2	
1,1-Biphenyl	~	~	0.0526	U	0.0588	JD	0.0457	U	0.0457	U	0.0444	U
1,2,4,5-Tetrachlorobenzene	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
1,2,4-Trichlorobenzene	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
1,2-Dichlorobenzene	1.1	100	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
1,2-Diphenylhydrazine (as Azobenzene)	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
1,3-Dichlorobenzene	2.4	17	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
1,4-Dichlorobenzene	1.8	9.8	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2,3,4,6-Tetrachlorophenol	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
2,4,5-Trichlorophenol	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2,4,6-Trichlorophenol	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2,4-Dichlorophenol	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2,4-Dimethylphenol	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2,4-Dinitrophenol	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
2,4-Dinitrotoluene	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2,6-Dinitrotoluene	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2-Chloronaphthalene	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2-Chlorophenol	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2-Methylnaphthalene	~	~	0.0526	U	0.139	D	0.0457	U	0.0457	U	0.0444	U
2-Methylphenol	0.33	100	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2-Nitroaniline	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
2-Nitrophenol	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
3- & 4-Methylphenols	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	SB-6 (10'-12') 8/10/2018 Soil		SB-7 (0'-2') 8/10/2018 Soil		SB-7 (10'-12') 8/10/2018 Soil		SB-8 (0'-2') 8/10/2018 Soil		SB-8 (17'-19') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
3,3-Dichlorobenzidine	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
3-Nitroaniline	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
4,6-Dinitro-2-methylphenol	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
4-Bromophenyl phenyl ether	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
4-Chloro-3-methylphenol	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
4-Chloroaniline	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
4-Chlorophenyl phenyl ether	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
4-Nitroaniline	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
4-Nitrophenol	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
Acenaphthene	20	100	0.0526	U	1.340	D	0.0998	D	0.0457	U	0.0481	JD
Acenaphthylene	100	100	0.0526	U	0.100	D	0.0685	JD	0.144	D	0.0444	U
Acetophenone	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Aniline	~	~	0.210	U	0.182	U	0.182	U	0.183	U	0.177	U
Anthracene	100	100	0.0526	U	3.220	D	0.299	D	0.174	D	0.166	D
Atrazine	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Benzaldehyde	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Benzidine	~	~	0.210	U	0.182	U	0.182	U	0.183	U	0.177	U
Benzo(a)anthracene	1	1	0.143	D	**5.77**	D	**1.1**	D	1	D	0.395	D
Benzo(a)pyrene	1	1	0.165	D	**5.64**	D	**1.32**	D	**1.11**	D	0.377	D
Benzo(b)fluoranthene	1	1	0.139	D	**4.48**	D	0.924	D	0.876	D	0.291	D
Benzo(g,h,i)perylene	100	100	0.104	JD	2.890	D	0.653	D	0.543	D	0.189	D
Benzo(k)fluoranthene	0.8	1	0.153	D	**4.59**	D	**0.928**	D	**0.918**	D	0.31	D
Benzoic acid	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Benzyl alcohol	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Benzyl butyl phthalate	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Bis(2-chloroethoxy)methane	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Bis(2-chloroethyl)ether	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Bis(2-chloroisopropyl)ether	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Bis(2-ethylhexyl)phthalate	~	~	0.225	D	0.0455	U	0.263	D	0.0457	U	0.273	D
Caprolactam	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
Carbazole	~	~	0.0526	U	1.190	D	0.0457	U	0.0457	U	0.0444	U
Chrysene	1	1	0.16	D	**6.09**	D	**1.21**	D	0.982	D	0.413	D
Dibenzo(a,h)anthracene	0.33	0.33	0.0526	U	**1.09**	D	0.216	D	0.215	D	0.0637	JD
Dibenzofuran	7	14	0.0526	U	0.576	D	0.0457	U	0.0457	U	0.0444	U
Diethyl phthalate	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Dimethyl phthalate	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Di-n-butyl phthalate	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Di-n-octyl phthalate	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Fluoranthene	100	100	0.328	D	14.600	D	1.91	D	1.65	D	0.726	D
Fluorene	30	100	0.0526	U	1.200	D	0.0845	JD	0.0457	U	0.0502	JD
Hexachlorobenzene	0.33	0.33	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Hexachlorobutadiene	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Hexachlorocyclopentadiene	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Hexachloroethane	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.0880	JD	**2.84**	D	**0.538**	D	**0.532**	D	0.16	D
Isophorone	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Naphthalene	12	100	0.0526	U	0.370	D	0.0457	U	0.0457	U	0.0444	U

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential	SB-6 (10'-12') 8/10/2018 Soil		SB-7 (0'-2') 8/10/2018 Soil		SB-7 (10'-12') 8/10/2018 Soil		SB-8 (0'-2') 8/10/2018 Soil		SB-8 (17'-19') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Nitrobenzene	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
N-Nitrosodimethylamine	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
N-nitroso-di-n-propylamine	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
N-Nitrosodiphenylamine	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Pentachlorophenol	0.8	2.4	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Phenanthrene	100	100	0.238	D	12.500	D	1.15	D	0.351	D	0.675	D
Phenol	0.33	100	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Pyrene	100	100	0.286	D	12.400	D	2.26	D	1.56	D	0.786	D
Pesticides, 8081 target list	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			5		5		5		5		5	
4,4'-DDD	0.0033	2.6	0.00207	U	0.00179	U	0.00179	U	**0.0591**	D	0.00175	U
4,4'-DDE	0.0033	1.8	0.00207	U	0.00241	D	0.00179	U	**0.0562**	D	0.00175	U
4,4'-DDT	0.0033	1.7	0.00207	U	**0.0114**	D	0.00179	U	**0.179**	D	0.00248	D
Aldrin	0.005	0.019	0.00207	U	0.00179	U	0.00179	U	0.00376	D	0.00175	U
alpha-BHC	0.02	0.097	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
alpha-Chlordane	0.094	0.91	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
beta-BHC	0.036	0.072	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Chlordane, total	~	~	0.0415	U	0.0358	U	0.0358	U	0.036	U	0.0349	U
delta-BHC	0.04	100	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Dieldrin	0.005	0.039	0.00207	U	0.00381	D	0.00179	U	0.0018	U	0.00175	U
Endosulfan I	2.4	4.8	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Endosulfan II	2.4	4.8	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Endosulfan sulfate	2.4	4.8	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Endrin	0.014	2.2	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00328	D
Endrin aldehyde	~	~	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Endrin ketone	~	~	0.00207	U	0.00763	D	0.00179	U	0.0018	U	0.00175	U
gamma-BHC (Lindane)	0.1	0.28	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
gamma-Chlordane	~	~	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Heptachlor	0.042	0.42	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Heptachlor epoxide	~	~	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Methoxychlor	~	~	0.0104	U	0.00895	U	0.00896	U	0.00901	U	0.00873	U
Toxaphene	~	~	0.105	U	0.0906	U	0.0907	U	0.0911	U	0.0884	U
Metals, Target Analyte	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
Aluminum	~	~	23,400	B	8,210	B	7,370	B	11,700	B	12,200	B
Antimony	~	~	4.710		1.770		4.44		1.84		2.940	
Arsenic	13	16	7.070		6.330		6.39		6.07		13	
Barium	350	350	**879**		179		104		166		194	
Beryllium	7.2	14	0.126	U	0.109	U	0.109	U	0.11	U	0.106	U
Cadmium	2.5	2.5	1.080		0.574		0.642		0.71		**5.02**	
Calcium	~	~	16,700		23,200		50,400		24,000		35,800	
Chromium	~	~	58.1		19		21.1		21.3		27.8	
Cobalt	~	~	26.4		8.52		7.21		15.6		13.6	
Copper	50	270	43.9		**103**		**98.6**		39.4		**81.2**	
Iron	~	~	45,400		19,600		22,800		18,400		29,000	
Lead	63	400	**92.2**		**358**		**338**		**225**		**273**	
Magnesium	~	~	14,100		5,600		5,110		7,260		7,230	

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	SB-6 (10'-12') 8/10/2018 Soil		SB-7 (0'-2') 8/10/2018 Soil		SB-7 (10'-12') 8/10/2018 Soil		SB-8 (0'-2') 8/10/2018 Soil		SB-8 (17'-19') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Manganese	1600	2000	650		299		351		834		393	
Nickel	30	140	**47.2**		20.9		17.9		25.500		27.6	
Potassium	~	~	15,000		2,010		1,620		2,740		4,510	
Selenium	3.9	36	1.26	U	1.09	U	1.09	U	1.1	U	1.060	U
Silver	2	36	0.629	U	0.545	U	0.546	U	0.548	U	0.531	U
Sodium	~	~	424	B	572	B	462	B	268	B	435	B
Thallium	~	~	1.260	U	1.09	U	1.09	U	1.1	U	1.06	U
Vanadium	~	~	73.3		26.4		21.1		26.7		31.2	
Zinc	109	2200	**232**		**253**		**210**		**554**		**2,110**	
Mercury by 7473	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
Mercury	0.18	0.81	0.0860		**0.694**		**0.583**		**1.71**		**0.78**	
Total Solids			%		%		%		%		%	
Dilution Factor			1		1		1		1		1	
% Solids	~	~	79.5		91.8		91.5		91.2		94.2	
Polychlorinated Biphenyls (PCB)	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
Aroclor 1016	~	~	0.0209	U	0.0181	U	0.0181	U	0.0182	U	0.0176	U
Aroclor 1221	~	~	0.0209	U	0.0181	U	0.0181	U	0.0182	U	0.0176	U
Aroclor 1232	~	~	0.0209	U	0.0181	U	0.0181	U	0.0182	U	0.0176	U
Aroclor 1242	~	~	0.0209	U	0.0181	U	0.0181	U	0.0182	U	0.0176	U
Aroclor 1248	~	~	0.0209	U	0.0181	U	0.0181	U	0.0182	U	0.0176	U
Aroclor 1254	~	~	0.0209	U	0.0181	U	0.0181	U	0.571		0.0176	U
Aroclor 1260	~	~	0.0209	U	0.109		0.0181	U	0.387		0.0176	U
Total PCBs	0.1	1	0.0209	U	**0.109**		0.0181	U	**0.958**		0.0176	U

NOTES:
mg/Kg = milligrams per kilogram
Any Regulatory Exceedences are bold and shaded.

Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
U=analyte not detected at or above the level indicated
B=analyte found in the analysis batch blank

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

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

Table 2. Groundwater Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC TOGS Standards and Guidance Values - GA	SB-2 (GW) 8/10/2018 Water		SB-5 (GW) 8/10/2018 Water		Trip Blank 8/10/2018 Water	
Compound		Result	Q			Result	Q
Volatile Organics, 8260 - Comprehensive	µg/L	µg/L		ug/L		µg/L	
Dilution Factor		10		1		1	
1,1,1,2-Tetrachloroethane	5	1	U	0.2	U	0.2	U
1,1,1-Trichloroethane	5	1	U	0.2	U	0.2	U
1,1,2,2-Tetrachloroethane	5	1	U	0.2	U	0.2	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	1	U	0.2	U	0.2	U
1,1,2-Trichloroethane	1	1	U	0.2	U	0.2	U
1,1-Dichloroethane	5	1	U	0.2	U	0.2	U
1,1-Dichloroethylene	5	1	U	0.2	U	0.2	U
1,2,3-Trichlorobenzene	5	1	U	0.2	U	0.2	U
1,2,3-Trichloropropane	0.04	1	U	0.2	U	0.2	U
1,2,4-Trichlorobenzene	5	1	U	0.2	U	0.2	U
1,2,4-Trimethylbenzene	5	**1,200**	D	3		0.2	U
1,2-Dibromo-3-chloropropane	0.04	1	U	0.2	U	0.2	U
1,2-Dibromoethane	0.0006	1	U	0.2	U	0.2	U
1,2-Dichlorobenzene	3	1	U	0.2	U	0.2	U
1,2-Dichloroethane	0.6	1	U	0.2	U	0.2	U
1,2-Dichloropropane	1	1	U	0.2	U	0.2	U
1,3,5-Trimethylbenzene	5	**340**	D	1.2		0.2	U
1,3-Dichlorobenzene	3	1	U	0.2	U	0.2	U
1,4-Dichlorobenzene	3	1	U	0.2	U	0.2	U
1,4-Dioxane	~	200	U	40	U	40	U
2-Butanone	50	1	U	0.2	U	0.2	U
2-Hexanone	50	1	U	0.2	U	0.2	U
4-Methyl-2-pentanone	~	1	U	0.2	U	0.2	U
Acetone	50	5	U	1	U	1	U
Acrolein	~	1	U	0.2	U	0.2	U
Acrylonitrile	~	1	U	0.2	U	0.2	U
Benzene	1	1	U	0.2	U	0.2	U
Bromochloromethane	5	1	U	0.2	U	0.2	U
Bromodichloromethane	50	1	U	0.95		0.2	U
Bromoform	50	1	U	0.2	U	0.2	U
Bromomethane	5	1	U	0.2	U	0.2	U
Carbon disulfide	~	1	U	0.2	U	0.2	U
Carbon tetrachloride	5	1	U	0.2	U	0.2	U
Chlorobenzene	5	1	U	0.2	U	0.2	U
Chloroethane	5	1	U	0.2	U	0.2	U
Chloroform	7	**10**	D	**16**		0.2	U
Chloromethane	5	1	U	0.2	U	0.2	U
cis-1,2-Dichloroethylene	5	1	U	0.2	U	0.2	U
cis-1,3-Dichloropropylene	0.4	1	U	0.2	U	0.2	U
Cyclohexane	~	95	D	0.2	U	0.2	U
Dibromochloromethane	50	1	U	0.2	U	0.2	U
Dibromomethane	~	1	U	0.2	U	0.2	U
Dichlorodifluoromethane	5	1	U	0.2	U	0.2	U
Ethyl Benzene	5	1	U	0.2	U	0.2	U
Hexachlorobutadiene	0.5	1	U	0.2	U	0.2	U
Isopropylbenzene	5	**47**	D	0.2	U	0.2	U
Methyl acetate	~	1	U	0.2	U	0.2	U
Methyl tert-butyl ether (MTBE)	10	1	U	0.2	U	0.2	U
Methylcyclohexane	~	180	D	0.47	J	0.2	U
Methylene chloride	5	5	U	1	U	1	U
n-Butylbenzene	5	**43**	D	0.2	U	0.2	U
n-Propylbenzene	5	**110**	D	0.4	J	0.2	U
o-Xylene	5	1	U	0.2	U	0.2	U
p- & m- Xylenes	5	3.2	JD	0.5	U	0.5	U
p-Isopropyltoluene	5	**7.2**	D	0.2	U	0.2	U
sec-Butylbenzene	5	**12**	D	0.2	U	0.2	U
Styrene	5	1	U	0.2	U	0.2	U
tert-Butyl alcohol (TBA)	~	2.5	U	0.5	U	0.5	U
tert-Butylbenzene	5	1	U	0.2	U	0.2	U
Tetrachloroethylene	5	1	U	0.2	U	0.2	U
Toluene	5	1.6	JD	0.2	U	0.2	U
trans-1,2-Dichloroethylene	5	1	U	0.2	U	0.2	U
trans-1,3-Dichloropropylene	0.4	1	U	0.2	U	0.2	U
trans-1,4-dichloro-2-butene	~	1	U	0.2	U	0.2	U
Trichloroethylene	5	1	U	0.2	U	0.2	U
Trichlorofluoromethane	5	1	U	0.2	U	0.2	U
Vinyl Chloride	2	1	U	0.2	U	0.2	U
Xylenes, Total	5	3.2	JD	0.6	U	0.6	U

Table 2. Groundwater Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC TOGS Standards and Guidance Values - GA	SB-2 (GW) 8/10/2018 Water		SB-5 (GW) 8/10/2018 Water		Trip Blank 8/10/2018 Water	
Compound		Result	Q			Result	Q
Semi-Volatiles, 8270 - Comprehensive	µg/L	µg/L		µg/L			
Dilution Factor		5		1			
1,1-Biphenyl	~	3.12	U	3.03	U	NA	
1,2,4,5-Tetrachlorobenzene	~	3.12	U	3.03	U	NA	
1,2,4-Trichlorobenzene	5	3.12	U	3.03	U	NA	
1,2-Dichlorobenzene	3	3.12	U	3.03	U	NA	
1,2-Diphenylhydrazine (as Azobenzene)	~	3.12	U	3.03	U	NA	
1,3-Dichlorobenzene	3	3.12	U	3.03	U	NA	
1,4-Dichlorobenzene	3	3.12	U	3.03	U	NA	
2,3,4,6-Tetrachlorophenol	~	3.12	U	3.03	U	NA	
2,4,5-Trichlorophenol	1	3.12	U	3.03	U	NA	
2,4,6-Trichlorophenol	1	3.12	U	3.03	U	NA	
2,4-Dichlorophenol	5	3.12	U	3.03	U	NA	
2,4-Dimethylphenol	50	3.12	U	3.03	U	NA	
2,4-Dinitrophenol	10	3.12	U	3.03	U	NA	
2,4-Dinitrotoluene	5	3.12	U	3.03	U	NA	
2,6-Dinitrotoluene	5	3.12	U	3.03	U	NA	
2-Chloronaphthalene	10	3.12	U	3.03	U	NA	
2-Chlorophenol	1	3.12	U	3.03	U	NA	
2-Methylnaphthalene	~	96.6	D	3.03	U	NA	
2-Methylphenol	1	3.12	U	3.03	U	NA	
2-Nitroaniline	5	3.12	U	3.03	U	NA	
2-Nitrophenol	1	3.12	U	3.03	U	NA	
3- & 4-Methylphenols	~	3.12	U	3.03	U	NA	
3,3-Dichlorobenzidine	5	3.12	U	3.03	U	NA	
3-Nitroaniline	5	3.12	U	3.03	U	NA	
4,6-Dinitro-2-methylphenol	~	3.12	U	3.03	U	NA	
4-Bromophenyl phenyl ether	~	3.12	U	3.03	U	NA	
4-Chloro-3-methylphenol	1	3.12	U	3.03	U	NA	
4-Chloroaniline	5	3.12	U	3.03	U	NA	
4-Chlorophenyl phenyl ether	~	3.12	U	3.03	U	NA	
4-Nitroaniline	5	3.12	U	3.03	U	NA	
4-Nitrophenol	1	3.12	U	3.03	U	NA	
Acenaphthene	20	0.1		0.0606	U	NA	
Acenaphthylene	~	0.0625	U	0.0606	U	NA	
Acetophenone	~	3.12	U	3.03	U	NA	
Aniline	5	3.12	U	3.03	U	NA	
Anthracene	50	0.0625	U	0.0606	U	NA	
Atrazine	~	0.625	U	0.606	U	NA	
Benzaldehyde	~	3.12	U	3.03	U	NA	
Benzidine	~	12.5	U	12.1	U	NA	
Benzo(a)anthracene	0.002	0.0625	U	0.0606	U	NA	
Benzo(a)pyrene	0.002	0.0625	U	0.0606	U	NA	
Benzo(b)fluoranthene	0.002	0.0625	U	0.0606	U	NA	
Benzo(g,h,i)perylene	~	0.0625	U	0.0606	U	NA	
Benzo(k)fluoranthene	0.002	0.0625	U	0.0606	U	NA	
Benzoic acid	~	31.2	U	30.3	U	NA	
Benzyl alcohol	~	3.12	U	3.03	U	NA	
Benzyl butyl phthalate	50	3.12	U	3.03	U	NA	
Bis(2-chloroethoxy)methane	5	3.12	U	3.03	U	NA	
Bis(2-chloroethyl)ether	1	3.12	U	3.03	U	NA	
Bis(2-chloroisopropyl)ether	5	3.12	U	3.03	U	NA	
Bis(2-ethylhexyl)phthalate	5	0.75		0.885		NA	
Caprolactam	~	3.12	U	3.03	U	NA	
Carbazole	~	3.12	U	3.03	U	NA	
Chrysene	0.002	0.0625	U	0.0606	U	NA	
Dibenzo(a,h)anthracene	~	0.0625	U	0.0606	U	NA	
Dibenzofuran	~	3.12	U	3.03	U	NA	
Diethyl phthalate	50	3.12	U	3.03	U	NA	
Dimethyl phthalate	50	3.12	U	3.03	U	NA	
Di-n-butyl phthalate	50	3.12	U	3.03	U	NA	
Di-n-octyl phthalate	50	3.12	U	3.03	U	NA	
Fluoranthene	50	0.0625	U	0.0606	U	NA	
Fluorene	50	0.1		0.0606	U	NA	
Hexachlorobenzene	0.04	0.025	U	0.0242	U	NA	
Hexachlorobutadiene	0.5	0.625	U	0.606	U	NA	
Hexachlorocyclopentadiene	5	3.12	U	3.03	U	NA	
Hexachloroethane	5	0.625	U	0.606	U	NA	
Indeno(1,2,3-cd)pyrene	0.002	0.0625	U	0.0606	U	NA	
Isophorone	50	3.12	U	3.03	U	NA	

Table 2. Groundwater Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC TOGS Standards and Guidance Values - GA	SB-2 (GW) 8/10/2018 Water		SB-5 (GW) 8/10/2018 Water		Trip Blank 8/10/2018 Water	
Compound		Result	Q			Result	Q
Naphthalene	10	**19.6**		0.145		NA	
Nitrobenzene	0.4	0.312	U	0.303	U	NA	
N-Nitrosodimethylamine	~	0.625	U	0.606	U	NA	
N-nitroso-di-n-propylamine	~	3.12	U	3.03	U	NA	
N-Nitrosodiphenylamine	50	3.12	U	3.03	U	NA	
Pentachlorophenol	1	0.312	U	0.303	U	NA	
Phenanthrene	50	0.15		0.0848		NA	
Phenol	1	3.12	U	3.03	U	NA	
Pyrene	50	0.0625	U	0.0606	U	NA	
Pesticides, 8081 target list	µg/L	µg/L		µg/L			
Dilution Factor		1		1			
4,4'-DDD	0.3	0.00457	U	0.00485	U	NA	
4,4'-DDE	0.2	0.00457	U	0.00485	U	NA	
4,4'-DDT	0.2	0.00457	U	0.00485	U	NA	
Aldrin	~	0.00457	U	0.00485	U	NA	
alpha-BHC	0.01	0.00457	U	0.00485	U	NA	
alpha-Chlordane	~	0.00457	U	0.00485	U	NA	
beta-BHC	0.04	0.00457	U	0.00485	U	NA	
Chlordane, total	0.05	0.0229	U	0.0242	U	NA	
delta-BHC	0.04	0.00457	U	0.00485	U	NA	
Dieldrin	0.004	0.00229	U	0.00242	U	NA	
Endosulfan I	~	0.00457	U	0.00485	U	NA	
Endosulfan II	~	0.00457	U	0.00485	U	NA	
Endosulfan sulfate	~	0.00457	U	0.00485	U	NA	
Endrin	~	0.00457	U	0.00485	U	NA	
Endrin aldehyde	5	0.0114	U	0.0121	U	NA	
Endrin ketone	5	0.0114	U	0.0121	U	NA	
gamma-BHC (Lindane)	0.05	0.00457	U	0.00485	U	NA	
gamma-Chlordane	~	0.0114	U	0.0121	U	NA	
Heptachlor	0.04	0.00457	U	0.00485	U	NA	
Heptachlor epoxide	0.03	0.00457	U	0.00485	U	NA	
Methoxychlor	35	0.00457	U	0.00485	U	NA	
Toxaphene	0.06	0.114	U	0.121	U	NA	
Metals, TAL, ICPMS	µg/L	µg/L					
Dilution Factor		1					
Aluminum	~	830		NT		NA	
Antimony	3	1	U	1	U	NA	
Arsenic	25	1	U	1	U	NA	
Barium	1000	68		76.4		NA	
Beryllium	3	0.3	U	0.3	U	NA	
Cadmium	5	0.746		0.5	U	NA	
Chromium	50	4.79		3.85		NA	
Cobalt	~	2.94		2.5		NA	
Copper	200	11		5.17		NA	
Iron	~	1730	B	1780	B	NA	
Lead	25	22.3		2.51		NA	
Manganese	300	111		259		NA	
Nickel	100	3.4		4.7		NA	
Selenium	10	1	U	1.1		NA	
Silver	50	1	U	1	U	NA	
Thallium	~	1	U	1	U	NA	
Vanadium	~	3.51		3.71		NA	
Zinc	2000	19.9		48.2		NA	
Metals, TAL, ICPMS Dissolved	µg/L	µg/L					
Dilution Factor		1					
Aluminum	~	396		322		NA	
Antimony	3	1	U	1	U	NA	
Arsenic	25	1	U	1	U	NA	
Barium	1000	68.7		62.9		NA	
Beryllium	3	0.3	U	0.3	U	NA	
Cadmium	5	0.76		0.5	U	NA	
Chromium	50	3.17		1.7		NA	
Cobalt	~	2.51		1.03		NA	
Copper	200	6.75		2.56		NA	
Iron	~	1290		712		NA	
Lead	25	19.6		1.55		NA	
Manganese	300	105		122		NA	
Nickel	100	2.42		2.07		NA	
Selenium	10	1	U	1	U	NA	
Silver	50	1	U	1	U	NA	

Table 2. Groundwater Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID **Sampling Date** **Client Matrix**	**NYSDEC TOGS Standards and Guidance Values - GA**	**SB-2 (GW)** **8/10/2018** **Water**		**SB-5 (GW)** **8/10/2018** **Water**		**Trip Blank** **8/10/2018** **Water**	
Compound		Result	Q			Result	Q
Thallium	~	1	U	1	U	NA	
Vanadium	~	1.4		1		NA	
Zinc	2000	18.8		481		NA	
Mercury by 7473	µg/L	µg/L					
Dilution Factor		1					
Mercury	0.7	0.2	U	0.2	U	NA	
Mercury by 7473, Dissolved	µg/L	µg/L					
Dilution Factor		1					
Mercury	0.7	0.2	U	0.2	U	NA	
Polychlorinated Biphenyls (PCB)	µg/L	µg/L					
Dilution Factor		1					
Aroclor 1016	~	0.0571	U	0.0606	U	NA	
Aroclor 1221	~	0.0571	U	0.0606	U	NA	
Aroclor 1232	~	0.0571	U	0.0606	U	NA	
Aroclor 1242	~	0.0571	U	0.0606	U	NA	
Aroclor 1248	~	0.0571	U	0.0606	U	NA	
Aroclor 1254	~	0.0571	U	0.0606	U	NA	
Aroclor 1260	~	0.0571	U	0.0836		NA	
Total PCBs	0.09	0.0571	U	0.0836		NA	

NOTES:
µg/L = micrograms per liter
Any Regulatory Exceedences are bold and shaded

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

Table 3. Soil Vapor Analytical Results
Phase II Evironmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID	**SV-1**	**SV-2**	**SV-3**	**SV-4**
Sampling Date	**8/10/2018**	**8/10/2018**	**8/10/2018**	**8/10/2018**
Client Matrix	**Soil Vapor**	**Soil Vapor**	**Soil Vapor**	**Soil Vapor**
Compound	Result	Result	Result	Result
Volatile Organics, EPA TO15 Full List	µg/m3	µg/m3	µg/m3	µg/m3
Dilution Factor	34.06	33.22	17.33	1.546
1,1,1,2-Tetrachloroethane	1.1U	1.1U	1.1U	1.1U
1,1,1-Trichloroethane	4.6D	0.84U	0.84U	0.84U
1,1,2,2-Tetrachloroethane	1.1U	1.1U	1.1U	1.1U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.2U	1.2U	1.2U	1.2U
1,1,2-Trichloroethane	0.84U	0.84U	0.84U	0.84U
1,1-Dichloroethane	0.63U	0.63U	0.63U	0.63U
1,1-Dichloroethylene	0.15U	0.15U	0.15U	0.15U
1,2,4-Trichlorobenzene	1.1U	1.1U	1.1U	1.1U
1,2,4-Trimethylbenzene	8.2D	10D	47D	12D
1,2-Dibromoethane	1.2U	1.2U	1.2U	1.2U
1,2-Dichlorobenzene	0.93U	0.93U	0.93U	0.93U
1,2-Dichloroethane	0.63U	0.63U	0.63U	0.63U
1,2-Dichloropropane	0.71U	0.71U	0.71U	0.71U
1,2-Dichlorotetrafluoroethane	1.1U	1.1U	1.1U	1.1U
1,3,5-Trimethylbenzene	0.76U	0.76U	25D	0.76U
1,3-Butadiene	4.5D	1U	7.8D	1U
1,3-Dichlorobenzene	7.7D	0.93U	0.93U	0.93U
1,3-Dichloropropane	0.71U	0.71U	0.71U	0.71U
1,4-Dichlorobenzene	0.93U	0.93U	0.93U	0.93U
1,4-Dioxane	1.1U	1.1U	1.1U	1.1U
2-Butanone	120D	26D	62D	25D
2-Hexanone	1.3U	1.3U	1.3U	1.3U
3-Chloropropene	2.4U	2.4U	2.4U	2.4U
4-Methyl-2-pentanone	8D	0.63U	8.8D	3.5D
Acetone	660D	150D	180D	110D
Acrylonitrile	0.34U	0.34U	0.34U	0.34U
Benzene	7.6D	4.4D	23D	3.1D
Benzyl chloride	0.8U	0.8U	0.8U	0.8U
Bromodichloromethane	1U	1U	1U	1U
Bromoform	1.6U	1.6U	1.6U	1.6U
Bromomethane	0.6U	0.6U	0.6U	0.6U
Carbon disulfide	0.48U	12D	31D	43D
Carbon tetrachloride	0.24U	0.24U	0.24U	0.24U
Chlorobenzene	0.71U	0.71U	0.71U	0.71U
Chloroethane	0.41U	0.41U	0.41U	0.41U
Chloroform	0.75U	0.75U	4.5D	0.75U
Chloromethane	0.32U	1.6D	3.3D	1.9D
cis-1,2-Dichloroethylene	0.15U	0.15U	0.15U	0.15U
cis-1,3-Dichloropropylene	0.7U	0.7U	0.7U	0.7U
Cyclohexane	7.2D	3.7D	46D	11D
Dibromochloromethane	1.3U	1.3U	1.3U	1.3U
Dichlorodifluoromethane	0.76U	0.76U	0.76U	0.76U
Ethyl acetate	1.1U	1.1U	1.1U	1.1U
Ethyl Benzene	7.5D	7.9D	22D	8.2D
Hexachlorobutadiene	1.6U	1.6U	1.6U	1.6U
Isopropanol	140D	67D	60D	47D
Methyl Methacrylate	0.63U	0.63U	0.63U	0.63U
Methyl tert-butyl ether (MTBE)	0.56U	0.56U	8.4D	0.56U
Methylene chloride	1.1U	37D	6.9D	6.2D
n-Heptane	21D	0.63U	120D	0.63U
n-Hexane	11D	8.4D	75D	11D
o-Xylene	11D	11D	28D	12D
p- & m- Xylenes	30D	31D	73D	32D
p-Ethyltoluene	0.76U	0.76U	29D	0.76U
Propylene	28D	15D	130DE	27D
Styrene	0.66U	0.66U	0.66U	0.66U
Tetrachloroethylene	56D	460D	44D	35D
Tetrahydrofuran	16D	5.6D	22D	6.2D
Toluene	26D	18D	47D	22D
trans-1,2-Dichloroethylene	0.61U	0.61U	0.61U	0.61U
trans-1,3-Dichloropropylene	0.7U	0.7U	0.7U	0.7U
Trichloroethylene	0.21U	0.21U	0.21U	0.21U
Trichlorofluoromethane (Freon 11)	0.87U	0.87U	0.87U	0.87U
Vinyl acetate	0.54U	0.54U	0.54U	0.54U
Vinyl bromide	0.68U	0.68U	0.68U	0.68U
Vinyl Chloride	0.099U	0.099U	0.099U	0.099U

NOTES:
µg/m3 = microgram per cubic meter

Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
U=analyte not detected at or above the level indicated
E=result is estimated and cannot be accurately reported due to levels encountered or interferences

Appendix A

Soil Boring Logs

GEI Consultants

GEI Consultants, Inc. P.C.
110 Walt Whitman Road
Suite 204
Huntington Station,
New York 11746

CLIENT: Hunton Andrews Kurth LLP
PROJECT: Gerard Avenue
CITY/STATE: Bronx, New York
GEI PROJECT NUMBER: 1803080

BORING LOG

SB-1

LOCATION: 580-610 Gerard Avenue
NORTHING (FT): **EASTING (FT):**
TOTAL DEPTH (FT): 25.0
DRILLED BY: Cascade Drilling / Luke Caballero
DATUM VERT. / HORZ.:
LOGGED BY: Bill Fitchett
DATE START / END: 8/10/2018 - 8/10/2018
DRILLING DETAILS: Direct Push / Geoprobe 7822DT
WATER LEVEL DEPTHS (FT): ▼ 24.00 8/10/2018
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN/REC FT./FT.	PID (PPM)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	0	S1	5/3	0.0		SB-1 (0'-2')	(0'- 0.25') dry, asphalt. (0.25'- 5') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts.
	5	S2	5/1.5	0.0			(5'- 9.5') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts.
	10	S3	5/3	0.0			(9.5'- 12') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts, brick fragments encountered. (12'- 15') SILT (ML); ~100% fines, ~0% gravel, ~0% sand; dry, tan, no visual impacts.
	15	S4	5/3	0.0			(15'- 18') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts, brick fragments encountered. (18'- 20') SANDY SILT (ML); ~90% fines, ~10% sand, fine, ~0% gravel; dry, tan, no visual impacts.
▼	20	S5	5/4	0.0		SB-1 (21'-23')	(20'- 22.5') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts, brick fragments encountered. (22.5'- 23.5') POORLY GRADED SAND WITH SILT (SP-SM); ~90% sand, fine, ~10% fines, ~0% gravel; moist, dark brown, no visual impacts. (23.5'- 25') POORLY GRADED SAND WITH SILT (SP-SM); ~90% sand, fine, ~10% fines, ~0% gravel; moist, tan, no visual impacts.
	25						End of Boring at 25 feet, Refusal.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
PID = PHOTOIONIZATION DETECTOR READING (PPM)
JHS = JAR HEADSPACE PID READING (PPM)

NA = NOT APPLICABLE
NM = NOT MEASURED

Q_P = POCKET PENETROMETER
S_V = TORVANE PEAK

ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR

GEI Consultants, Inc. P.C.
110 Walt Whitman Road
Suite 204
Huntington Station,
New York 11746

CLIENT: Hunton Andrews Kurth LLP
PROJECT: Gerard Avenue
CITY/STATE: Bronx, New York
GEI PROJECT NUMBER: 1803080

BORING LOG

SB-2

LOCATION: 580-610 Gerard Avenue
NORTHING (FT): **EASTING (FT):**
TOTAL DEPTH (FT): 25.0
DRILLED BY: Cascade Drilling / Luke Caballero
DATUM VERT. / HORZ.:
LOGGED BY: Bill Fitchett
DATE START / END: 8/10/2018 - 8/10/2018
DRILLING DETAILS: Direct Push / Geoprobe 7822DT
WATER LEVEL DEPTHS (FT): ▼ 24.00 8/10/2018
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN/REC FT./FT.	PID (PPM)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	0	S1	5/2	0.0		SB-2 (0'-2')	(0'- 0.25') ~70% sand, ~25% fines, ~5% gravel; dry, asphalt. (0.25'- 3') POORLY GRADED SAND WITH GRAVEL (SP); ~95% sand, fine, ~5% gravel, ~0% fines; max. gravel size 0.25, dry, dark brown, no visual impacts. (3'- 5') POORLY GRADED SAND WITH GRAVEL (SP); ~95% sand, fine, ~5% gravel, ~0% fines; max. gravel size 0.25, dry, tan, no visual impacts.
	5	S2	5/3	14.8			(5'- 6.75') WELL GRADED SAND (SP); ~100% sand, fine to medium, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts. (6.75'- 8.5') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts. (8.5'- 10') SANDY SILT (ML); ~70% fines, ~30% sand, fine, ~0% gravel; dry, tan, no visual impacts.
	10	S3	5/4	2.3			(10'- 11.5') POORLY GRADED SAND WITH GRAVEL (SP); ~95% sand, fine, ~5% gravel, ~0% fines; dry, dark brown, no visual impacts. (11.5'- 15') POORLY GRADED SAND (SP); ~90% sand, fine, ~10% fines, ~0% gravel; dry, light brown, no visual impacts.
	15	S4	5/3.3	0.0			(15'- 16') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, tan, no visual impacts. (16'- 17.5') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts. (17.5'- 20') POORLY GRADED SAND (SP); ~90% sand, fine, ~10% fines, ~0% gravel; dry, light brown, no visual impacts.
	20	S5	1/1	0.0			(20'- 21') POORLY GRADED SAND WITH GRAVEL (SP); ~95% sand, fine, ~5% gravel, ~0% fines; max. gravel size 0.25, dry, dark brown, no visual impacts.
		S6	3/2	37.0		SB-2 (21'-23')	(21'- 23') POORLY GRADED SAND WITH GRAVEL (SP); ~95% sand, fine, ~5% gravel, ~0% fines; max. gravel size 0.25, dry, dark brown, no visual impacts. (23'- 24') POORLY GRADED SAND WITH GRAVEL (SP); ~95% sand, fine, ~5% gravel, ~0% fines; max. gravel size 0.25, moist, dark brown, no visual impacts.
▼		S7	1/1	5,041			(24'- 25') POORLY GRADED SAND WITH GRAVEL (SP); ~95% sand, fine, ~5% gravel, ~0% fines; max. gravel size 0.25, wet, dark brown, no visual impacts.
	25						End of Boring at 25 feet.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
PID = PHOTOIONIZATION DETECTOR READING (PPM)
JHS = JAR HEADSPACE PID READING (PPM)

NA = NOT APPLICABLE
NM = NOT MEASURED

Q_P = POCKET PENETROMETER
S_V = TORVANE PEAK

ppm = PARTS PER MILLION
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NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
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ALO = ASPHALT LIKE ODOR

CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR

GEI Consultants

GEI Consultants, Inc. P.C.
110 Walt Whitman Road
Suite 204
Huntington Station,
New York 11746

CLIENT: Hunton Andrews Kurth LLP
PROJECT: Gerard Avenue
CITY/STATE: Bronx, New York
GEI PROJECT NUMBER: 1803080

BORING LOG

PAGE 1 of 1

SB-3

LOCATION: 580-610 Gerard Avenue
NORTHING (FT): **EASTING (FT):**
TOTAL DEPTH (FT): 5.0
DRILLED BY: Cascade Drilling / Luke Caballero
DATUM VERT. / HORZ.:
LOGGED BY: Bill Fitchett
DATE START / END: 8/10/2018 - 8/10/2018
DRILLING DETAILS: Direct Push / Geoprobe 7822DT
WATER LEVEL DEPTHS (FT):
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN/REC FT./FT.	PID (PPM)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	0	S1	5/48	0.0		SB-3 (0'-2')	(0'- 0.25') dry, asphalt. (0.25'- 2') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts.
	5						End of Boring at 5 feet, Refusal.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
PID = PHOTOIONIZATION DETECTOR READING (PPM)
JHS = JAR HEADSPACE PID READING (PPM)

NA = NOT APPLICABLE
NM = NOT MEASURED

Q_P = POCKET PENETROMETER
S_V = TORVANE PEAK

ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR

GEI Consultants

GEI Consultants, Inc. P.C.
110 Walt Whitman Road
Suite 204
Huntington Station,
New York 11746

CLIENT: Hunton Andrews Kurth LLP
PROJECT: Gerard Avenue
CITY/STATE: Bronx, New York
GEI PROJECT NUMBER: 1803080

BORING LOG

SB-4

LOCATION: 580-610 Gerard Avenue
NORTHING (FT): **EASTING (FT):**
TOTAL DEPTH (FT): 20.0
DRILLED BY: Cascade Drilling / Luke Caballero
DATUM VERT. / HORZ.:
LOGGED BY: Bill Fitchett
DATE START / END: 8/10/2018 - 8/10/2018
DRILLING DETAILS: Direct Push / Geoprobe 7822DT
WATER LEVEL DEPTHS (FT): ▼ 19.50 8/10/2018
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN/REC FT./FT.	PID (PPM)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	0	S1	5/3.3	0.0		SB-4 (0'-2')	(0'- 0.25') dry, asphalt. (0.25'- 5') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown to black, rocks and brick fragments encountered, no visual impacts.
	5	S2	5/3	0.0			(5'- 7') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, black, no visual impacts. (7'- 10') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, rock fragments encountered, no visual impacts.
	10	S3	5/3	0.0			(10'- 11.5') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts. (11.5'- 12.5') NARROWLY GRADED GRAVEL (SP); ~100% gravel, 0.25, angular, ~0% sand, ~0% fines; max. gravel size 0.25, dry, dark brown, no visual impacts. (12.5'- 15') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, tan, no visual impacts.
	15	S4	5/3	0.0		SB-4 (17'-19')	(15'- 18') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown to black, no visual impacts. (18'- 19') POORLY GRADED SAND (SP); ~90% sand, fine, ~10% fines, ~0% gravel; dry, tan, no visual impacts. (19'- 20') SILT (ML); ~100% fines, ~0% gravel, ~0% sand; dry to moist at bottom, gray, no visual impacts.
▼	20						End of Boring at 20 feet.

NOTES:

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JHS = JAR HEADSPACE PID READING (PPM)

NA = NOT APPLICABLE
NM = NOT MEASURED

Q_P = POCKET PENETROMETER
S_V = TORVANE PEAK

ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR

GEI Consultants

GEI Consultants, Inc. P.C.
110 Walt Whitman Road
Suite 204
Huntington Station,
New York 11746

CLIENT: Hunton Andrews Kurth LLP
PROJECT: Gerard Avenue
CITY/STATE: Bronx, New York
GEI PROJECT NUMBER: 1803080

BORING LOG

PAGE 1 of 1

SB-5

LOCATION: 580-610 Gerard Avenue
NORTHING (FT): **EASTING (FT):**
TOTAL DEPTH (FT): 20.0
DRILLED BY: Cascade Drilling / Luke Caballero
DATUM VERT. / HORZ.:
LOGGED BY: Bill Fitchett
DATE START / END: 8/10/2018 - 8/10/2018
DRILLING DETAILS: Direct Push / Geoprobe 7822DT
WATER LEVEL DEPTHS (FT):
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN/REC FT./FT.	PID (PPM)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	0	S1	5/3	0.0		SB-5 (0'-2')	(0'- 0.25') dry, asphalt. (0.25'- 5') SILTY SAND (SM); ~70% sand, fine, ~30% fines, ~0% gravel; dry, dark brown, no visual impacts.
	5	S2	5/3.3	0.0			(5'- 6') SILTY SAND (SM); ~70% sand, fine, ~30% fines, ~0% gravel; dry, dark brown, no visual impacts. (6'- 17.5') POORLY GRADED SAND (SP); ~90% sand, fine, ~10% fines, ~0% gravel; dry, light brown, no visual impacts.
	10	S3	5/4.5	0.0		SB-5 (10'-12')	
	15	S4	5/3	0.0			(17.5'- 20') SILTY SAND (SM); ~70% sand, fine, ~30% fines, ~0% gravel; dry, dark brown, no visual impacts.
	20						End of Boring at 20 feet.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
PID = PHOTOIONIZATION DETECTOR READING (PPM)
JHS = JAR HEADSPACE PID READING (PPM)

NA = NOT APPLICABLE
NM = NOT MEASURED

Q_P = POCKET PENETROMETER
S_V = TORVANE PEAK

ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR

GEI Consultants

GEI Consultants, Inc. P.C.
110 Walt Whitman Road
Suite 204
Huntington Station,
New York 11746

CLIENT: Hunton Andrews Kurth LLP
PROJECT: Gerard Avenue
CITY/STATE: Bronx, New York
GEI PROJECT NUMBER: 1803080

BORING LOG

SB-6

LOCATION: 580-610 Gerard Avenue
NORTHING (FT): **EASTING (FT):**
TOTAL DEPTH (FT): 20.0
DRILLED BY: Cascade Drilling / Luke Caballero
DATUM VERT. / HORZ.:
LOGGED BY: Bill Fitchett
DATE START / END: 8/10/2018 - 8/10/2018
DRILLING DETAILS: Direct Push / Geoprobe 7822DT
WATER LEVEL DEPTHS (FT):
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN/REC FT./FT.	PID (PPM)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	0	S1	5/3.3	0.0		SB-6 (0'-2')	(0'- 0.25') dry, asphalt. (0.25'- 3') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, rock fragments encountered, no visual impacts.
							(3'- 4') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, tan, no visual impacts. (4'- 5') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts.
	5	S2	5/3.6	0.0			(5'- 5.5') POORLY GRADED SAND (SP); ~90% sand, fine, ~10% fines, ~0% gravel; dry, tan, no visual impacts. (5.5'- 8.5') POORLY GRADED GRAVEL WITH SILT (GP-GM); ~90% gravel, 0.25, ~10% sand, ~0% fines; max. gravel size 0.25, dry, black, no visual impacts.
							(8.5'- 10') POORLY GRADED SAND (SP); ~90% sand, fine, ~10% fines, ~0% gravel; dry, tan, no visual impacts.
	10	S3	5/4	0.0		SB-6 (10'-12')	(10'- 12.5') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts.
							(12.5'- 15') POORLY GRADED SAND (SP); ~90% sand, fine, ~10% fines, ~0% gravel; dry, tan, no visual impacts.
	15	S4	5/4	0.0			(15'- 18') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts.
							(18'- 20') POORLY GRADED SAND (SP); ~90% sand, fine, ~10% fines, ~0% gravel; dry, light brown, no visual impacts.
	20						End of Boring at 20 feet.

NOTES:

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NM = NOT MEASURED

ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET

Q_P = POCKET PENETROMETER
S_V = TORVANE PEAK

NLO = NAPHTHALENE LIKE ODOR
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TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
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110 Walt Whitman Road
Suite 204
Huntington Station,
New York 11746

CLIENT: Hunton Andrews Kurth LLP
PROJECT: Gerard Avenue
CITY/STATE: Bronx, New York
GEI PROJECT NUMBER: 1803080

BORING LOG

PAGE 1 of 1

SB-7

LOCATION: 580-610 Gerard Avenue
NORTHING (FT): **EASTING (FT):**
TOTAL DEPTH (FT): 19.0
DRILLED BY: Cascade Drilling / Luke Caballero
DATUM VERT. / HORZ.:
LOGGED BY: Bill Fitchett
DATE START / END: 8/10/2018 - 8/10/2018
DRILLING DETAILS: Direct Push / Geoprobe 7822DT
WATER LEVEL DEPTHS (FT):
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN/REC FT./FT.	PID (PPM)	STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	0	S1	5/2.75	0.0			SB-7 (0'-2')	(0'- 0.25') dry, asphalt. (0.25'- 5') WELL GRADED SAND (SW); ~100% sand, fine to medium sand, ~0% gravel, ~0% fines; dry, dark brown to black, no visual impacts.
	5	S2	2/1	0.0				(5'- 7.8') POORLY GRADED SAND (SP); ~90% sand, fine, ~10% fines, ~0% gravel; dry, dark brown, no visual impacts.
		S3	2/1	0.0				(6.5'- 8') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts.
		S4	2/1	5.9		PLO		(8'- 10') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; slight petroleum-like odor, dry, dark brown to black, no visual impacts.
	10	S4	2/1	27.0		PLO	SB-7 (10'-12')	(10'- 12') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; slight petroleum-like odor, dry, dark brown to black, no visual impacts.
		S5	3/2	0.0				(12'- 15') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, no visual impacts.
	15	S6	1/0.75	0.0				(14'- 16') POORLY GRADED SAND (SP); ~90% sand, fine, ~10% fines, ~0% gravel; dry, tan, no visual impacts.
		S7	2/1	0.0				(16'- 18') POORLY GRADED SAND (SP); ~90% sand, ~10% fines, ~0% gravel; moist, tan, no visual impacts.
		S8	1/0.5	0.0				(18'- 19') POORLY GRADED SAND (SP); ~90% sand, ~10% fines, ~0% gravel; wet, tan, no visual impacts.

End of Boring at 19 feet, Refusal.

NOTES:

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JHS = JAR HEADSPACE PID READING (PPM)

NA = NOT APPLICABLE
NM = NOT MEASURED

Q_P = POCKET PENETROMETER
S_V = TORVANE PEAK

ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR

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110 Walt Whitman Road
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New York 11746

CLIENT: Hunton Andrews Kurth LLP
PROJECT: Gerard Avenue
CITY/STATE: Bronx, New York
GEI PROJECT NUMBER: 1803080

BORING LOG

PAGE 1 of 1

SB-8

LOCATION: 580-610 Gerard Avenue
NORTHING (FT): **EASTING (FT):**
TOTAL DEPTH (FT): 19.5
DRILLED BY: Cascade Drilling / Luke Caballero
DATUM VERT. / HORZ.:
LOGGED BY: Bill Fitchett
DATE START / END: 8/10/2018 - 8/10/2018
DRILLING DETAILS: Direct Push / Geoprobe 7822DT
WATER LEVEL DEPTHS (FT):
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN/REC FT./FT.	PID (PPM)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
	0	S1	5/4	0.0		SB-8 (0'-2')	(0'- 0.25') ASPHALT; asphalt. (0.25'- 1') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, brick fragments encountered, no visual impacts. (1'- 5') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, gray to black, brick fragments encountered, no visual impacts.
	5	S2	5/3	0.0			(5'- 10') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown, rock fragments encountered, no visual impacts.
	10	S3	5/3	0.0			(10'- 15') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, brown to tan, rock and brick fragments encountered, no visual impacts.
	15	S3	5/2	0.0		SB-8 (17'-19')	(15'- 19') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; dry, dark brown to black, no visual impacts.
							(19'- 19.5') POORLY GRADED SAND (SP); ~100% sand, fine, ~0% gravel, ~0% fines; moist, tan, no visual impacts. End of Boring at 19.5 feet, Refusal.

NOTES:

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Q_P = POCKET PENETROMETER
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ppm = PARTS PER MILLION
IN. = INCHES
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SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR

Appendix B

Laboratory Report and Chain-of-Custody Record

Technical Report

prepared for:

GEI Consultants, Inc
110 Walt Whitman Road, Suite 204
Huntington Station NY, 11746
Attention: Wendy Monterosso

Report Date: 08/20/2018
Client Project ID: 580 Gerard Ave
York Project (SDG) No.: 18H0563

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

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

Report Date: 08/20/2018
Client Project ID: 580 Gerard Ave
York Project (SDG) No.: 18H0563

GEI Consultants, Inc
110 Walt Whitman Road, Suite 204
Huntington Station NY, 11746
Attention: Wendy Monterosso

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 13, 2018 and listed below. The project was identified as your project: **580 Gerard Ave**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
18H0563-01	SB-1 (0'-2')	Soil	08/10/2018	08/13/2018
18H0563-02	SB-1 (21'-23')	Soil	08/10/2018	08/13/2018
18H0563-03	SB-2 (0'-2')	Soil	08/10/2018	08/13/2018
18H0563-04	SB-2 (21'-23')	Soil	08/10/2018	08/13/2018
18H0563-05	SB-3 (0'-2')	Soil	08/10/2018	08/13/2018
18H0563-06	SB-4 (0'-2')	Soil	08/10/2018	08/13/2018
18H0563-07	SB-4 (17'-19')	Soil	08/10/2018	08/13/2018
18H0563-08	SB-5 (0'-2')	Soil	08/10/2018	08/13/2018
18H0563-09	SB-5 (10'-12')	Soil	08/10/2018	08/13/2018
18H0563-10	SB-6 (0'-2')	Soil	08/10/2018	08/13/2018
18H0563-11	SB-6 (10'-12')	Soil	08/10/2018	08/13/2018
18H0563-12	SB-7 (0'-2')	Soil	08/10/2018	08/13/2018
18H0563-13	SB-7 (10'-12')	Soil	08/10/2018	08/13/2018
18H0563-14	SB-8 (0'-2')	Soil	08/10/2018	08/13/2018
18H0563-15	SB-8 (17'-19')	Soil	08/10/2018	08/13/2018

General Notes for York Project (SDG) No.: 18H0563

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: **Date:** 08/20/2018

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **SB-1 (0'-2')** **York Sample ID:** **18H0563-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 3:40 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 04:31	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 04:31	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.055	0.11	1	EPA 8260C Certifications:	08/16/2018 04:31 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
78-93-3	2-Butanone	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications:	08/16/2018 04:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	LL

Sample Information

Client Sample ID: **SB-1 (0'-2')** **York Sample ID:** **18H0563-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 3:40 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
67-64-1	**Acetone**	**0.0083**	J	mg/kg dry	0.0055	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
107-02-8	Acrolein	ND		mg/kg dry	0.0055	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
71-43-2	Benzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
75-25-2	Bromoform	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
74-83-9	Bromomethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
75-00-3	Chloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
67-66-3	Chloroform	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
74-87-3	Chloromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
110-82-7	Cyclohexane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
74-95-3	Dibromomethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL

Sample Information

Client Sample ID: **SB-1 (0'-2')** **York Sample ID:** **18H0563-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 3:40 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
79-20-9	Methyl acetate	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0055	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0055	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
100-42-5	Styrene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
127-18-4	**Tetrachloroethylene**	**0.0077**		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
108-88-3	Toluene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH	08/16/2018 04:31	08/16/2018 04:31	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 04:31	08/16/2018 04:31	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0083	0.017	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 04:31	08/16/2018 04:31	LL

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: **SB-1 (0'-2')** **York Sample ID:** **18H0563-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 3:40 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*91.6 %*			*77-125*						
2037-26-5	*Surrogate: Toluene-d8*	*115 %*			*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*117 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR

Sample Information

Client Sample ID: **SB-1 (0'-2')** **York Sample ID:** **18H0563-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 3:40 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
83-32-9	**Acenaphthene**	**0.0590**	J	mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
208-96-8	**Acenaphthylene**	**0.112**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
62-53-3	Aniline	ND		mg/kg dry	0.185	0.370	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
120-12-7	**Anthracene**	**0.171**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
92-87-5	Benzidine	ND		mg/kg dry	0.185	0.370	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
56-55-3	**Benzo(a)anthracene**	**0.692**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
50-32-8	**Benzo(a)pyrene**	**0.824**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR

Sample Information

Client Sample ID: **SB-1 (0'-2')** **York Sample ID:** **18H0563-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 3:40 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	**Benzo(b)fluoranthene**	**0.659**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
191-24-2	**Benzo(g,h,i)perylene**	**0.433**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
207-08-9	**Benzo(k)fluoranthene**	**0.703**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.0664**	J	mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0923	0.184	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
86-74-8	**Carbazole**	**0.0561**	J	mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
218-01-9	**Chrysene**	**0.739**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
53-70-3	**Dibenzo(a,h)anthracene**	**0.161**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
206-44-0	**Fluoranthene**	**1.36**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
86-73-7	**Fluorene**	**0.0480**	J	mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR

Sample Information

Client Sample ID: **SB-1 (0'-2')** **York Sample ID:** **18H0563-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 3:40 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.370**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
85-01-8	**Phenanthrene**	**0.624**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
108-95-2	Phenol	ND		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR
129-00-0	**Pyrene**	**1.16**		mg/kg dry	0.0463	0.0923	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:22	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*53.6 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*56.4 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*67.0 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*55.6 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*57.0 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*63.8 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
50-29-3	**4,4'-DDT**	**0.00819**		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB

Sample Information

Client Sample ID: **SB-1 (0'-2')** **York Sample ID:** **18H0563-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 3:40 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
319-84-6	alpha-BHC	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 21:07	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0365	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
60-57-1	**Dieldrin**	**0.00239**		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/16/2018 21:07	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
72-20-8	**Endrin**	**0.00514**		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
7421-93-4	**Endrin aldehyde**	**0.00230**		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
53494-70-5	**Endrin ketone**	**0.00660**		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 21:07	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00183	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00913	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.0924	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:07	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*64.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.5 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB-1 (0'-2')** **York Sample ID:** **18H0563-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 3:40 pm	08/13/2018

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:32	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:32	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:32	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:32	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:32	LAB
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:32	LAB
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:32	LAB
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 13:32	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*61.9 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*66.2 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7690**		mg/kg dry	5.54	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:51	KML
7440-36-0	**Antimony**	**3.37**	B	mg/kg dry	0.554	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:51	KML
7440-38-2	**Arsenic**	**7.14**		mg/kg dry	1.11	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:51	KML
7440-39-3	**Barium**	**253**		mg/kg dry	1.11	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:51	KML
7440-41-7	**Beryllium**	**0.138**		mg/kg dry	0.111	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:51	KML
7440-43-9	**Cadmium**	**0.713**		mg/kg dry	0.332	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:51	KML
7440-70-2	**Calcium**	**15400**		mg/kg dry	5.54	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:51	KML
7440-47-3	**Chromium**	**19.4**		mg/kg dry	0.554	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:51	KML
7440-48-4	**Cobalt**	**7.95**		mg/kg dry	0.554	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:51	KML
7440-50-8	**Copper**	**106**		mg/kg dry	0.554	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:51	KML

Sample Information

Client Sample ID: **SB-1 (0'-2')** **York Sample ID:** **18H0563-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 3:40 pm	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	**Iron**	**17900**		mg/kg dry	2.21	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**398**		mg/kg dry	0.554	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**4150**		mg/kg dry	5.54	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**348**		mg/kg dry	0.554	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**22.1**		mg/kg dry	0.554	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1720**	B	mg/kg dry	5.54	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.11	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.554	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**339**	B	mg/kg dry	11.1	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.11	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**22.9**		mg/kg dry	1.11	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**375**		mg/kg dry	1.66	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.395**		mg/kg dry	0.0332	1	EPA 7473	08/20/2018 09:08	08/20/2018 12:11	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**90.3**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB-1 (21'-23')** **York Sample ID:** **18H0563-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:00 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 05:01	08/16/2018 05:01	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
87-61-6	1,2,3-Trichlorobenzene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
96-18-4	1,2,3-Trichloropropane	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 05:01	08/16/2018 05:01	LL
120-82-1	1,2,4-Trichlorobenzene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
95-63-6	1,2,4-Trimethylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.054	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
78-93-3	2-Butanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL

Sample Information

Client Sample ID: **SB-1 (21'-23')** **York Sample ID:** **18H0563-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:00 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.023**		mg/kg dry	0.0054	0.011	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 05:01	08/16/2018 05:01	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-1 (21'-23')** **York Sample ID:** **18H0563-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:00 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
104-51-8	n-Butylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
103-65-1	n-Propylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
99-87-6	p-Isopropyltoluene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
135-98-8	sec-Butylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
98-06-6	tert-Butylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND	IS-LO	mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH	08/16/2018 05:01	08/16/2018 05:01	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:01	08/16/2018 05:01	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0081	0.016	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 05:01	08/16/2018 05:01	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*89.3 %*	*77-125*
2037-26-5	*Surrogate: Toluene-d8*	*116 %*	*85-120*

Sample Information

Client Sample ID: **SB-1 (21'-23')** **York Sample ID:** **18H0563-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:00 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	*Surrogate: p-Bromofluorobenzene*	*138 %*	S-08		*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR

Sample Information

Client Sample ID: **SB-1 (21'-23')** **York Sample ID:** **18H0563-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:00 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
83-32-9	Acenaphthene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
62-53-3	Aniline	ND		mg/kg dry	0.180	0.360	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
120-12-7	Anthracene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
92-87-5	Benzidine	ND		mg/kg dry	0.180	0.360	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
56-55-3	**Benzo(a)anthracene**	**0.131**		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
50-32-8	**Benzo(a)pyrene**	**0.173**		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
205-99-2	**Benzo(b)fluoranthene**	**0.137**		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
191-24-2	**Benzo(g,h,i)perylene**	**0.152**		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR

Sample Information

Client Sample ID: **SB-1 (21'-23')** **York Sample ID:** **18H0563-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:00 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	**Benzo(k)fluoranthene**	**0.129**		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0899	0.180	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
86-74-8	Carbazole	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
218-01-9	**Chrysene**	**0.147**		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
206-44-0	**Fluoranthene**	**0.234**		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
86-73-7	Fluorene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR

Sample Information

Client Sample ID: **SB-1 (21'-23')** **York Sample ID:** **18H0563-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:00 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.0920**		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
85-01-8	**Phenanthrene**	**0.119**		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
108-95-2	Phenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR
129-00-0	**Pyrene**	**0.220**		mg/kg dry	0.0451	0.0899	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 17:53	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*69.1 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*72.2 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*86.4 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*65.6 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*71.3 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*81.2 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
319-84-6	alpha-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB

Sample Information

Client Sample ID: **SB-1 (21'-23')** **York Sample ID:** **18H0563-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:00 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 21:22	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0356	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
60-57-1	Dieldrin	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/16/2018 21:22	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
72-20-8	Endrin	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 21:22	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00890	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.0901	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:22	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*36.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*57.3 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:56	LAB

Sample Information

Client Sample ID: **SB-1 (21'-23')** **York Sample ID:** **18H0563-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:00 pm	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:56	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:56	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:56	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:56	LAB
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:56	LAB
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 13:56	LAB
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0180	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 13:56	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*49.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*48.3 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**11700**		mg/kg dry	5.41	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:53	KML
7440-36-0	**Antimony**	**2.18**	B	mg/kg dry	0.541	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:53	KML
7440-38-2	**Arsenic**	**4.20**		mg/kg dry	1.08	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:53	KML
7440-39-3	**Barium**	**162**		mg/kg dry	1.08	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:53	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.108	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:53	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.324	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:53	KML
7440-70-2	**Calcium**	**15300**		mg/kg dry	5.41	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:53	KML
7440-47-3	**Chromium**	**23.0**		mg/kg dry	0.541	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:53	KML
7440-48-4	**Cobalt**	**14.2**		mg/kg dry	0.541	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:53	KML
7440-50-8	**Copper**	**46.1**		mg/kg dry	0.541	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:53	KML
7439-89-6	**Iron**	**24300**		mg/kg dry	2.16	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:53	KML

Sample Information

Client Sample ID: **SB-1 (21'-23')** **York Sample ID:** **18H0563-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:00 pm	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**150**		mg/kg dry	0.541	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**7310**		mg/kg dry	5.41	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**359**		mg/kg dry	0.541	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**24.0**		mg/kg dry	0.541	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**3890**	B	mg/kg dry	5.41	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.08	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.541	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**200**	B	mg/kg dry	10.8	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.08	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**31.3**		mg/kg dry	1.08	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**129**		mg/kg dry	1.62	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:53	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.457**		mg/kg dry	0.0324	1	EPA 7473	08/20/2018 09:08	08/20/2018 12:17	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**92.5**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB-2 (0'-2')** **York Sample ID:** **18H0563-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:21 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 05:30	08/16/2018 05:30	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 05:30	08/16/2018 05:30	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.052	0.10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
78-93-3	2-Butanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL

Sample Information

Client Sample ID: **SB-2 (0'-2')** **York Sample ID:** **18H0563-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:21 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.035**		mg/kg dry	0.0052	0.010	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0052	0.010	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 05:30	08/16/2018 05:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-2 (0'-2')** **York Sample ID:** **18H0563-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:21 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0052	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0052	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
100-42-5	Styrene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
127-18-4	**Tetrachloroethylene**	**0.0065**		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
108-88-3	Toluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH	08/16/2018 05:30	08/16/2018 05:30	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 05:30	08/16/2018 05:30	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0078	0.016	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 05:30	08/16/2018 05:30	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*93.0 %*	*77-125*

Sample Information

Client Sample ID: **SB-2 (0'-2')** **York Sample ID:** **18H0563-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:21 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*106 %*			*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*115 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0864	0.173	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0864	0.173	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0864	0.173	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR

Sample Information

Client Sample ID: **SB-2 (0'-2')** **York Sample ID:** **18H0563-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:21 am	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0864	0.173	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0864	0.173	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0864	0.173	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0864	0.173	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0864	0.173	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
83-32-9	**Acenaphthene**	**0.215**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
208-96-8	**Acenaphthylene**	**0.0739**	J	mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
62-53-3	Aniline	ND		mg/kg dry	0.173	0.346	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
120-12-7	**Anthracene**	**0.366**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
92-87-5	Benzidine	ND		mg/kg dry	0.173	0.346	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
56-55-3	**Benzo(a)anthracene**	**1.22**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
50-32-8	**Benzo(a)pyrene**	**1.27**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
205-99-2	**Benzo(b)fluoranthene**	**1.03**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR

Sample Information

Client Sample ID: **SB-2 (0'-2')** **York Sample ID:** **18H0563-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:21 am	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	**Benzo(g,h,i)perylene**	**0.600**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
207-08-9	**Benzo(k)fluoranthene**	**1.09**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.0497**	J	mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0864	0.173	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
86-74-8	**Carbazole**	**0.155**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
218-01-9	**Chrysene**	**1.27**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
53-70-3	**Dibenzo(a,h)anthracene**	**0.222**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
132-64-9	**Dibenzofuran**	**0.0794**	J	mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
206-44-0	**Fluoranthene**	**2.37**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
86-73-7	**Fluorene**	**0.116**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR

Sample Information

Client Sample ID: **SB-2 (0'-2')** **York Sample ID:** **18H0563-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:21 am	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.589**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
91-20-3	**Naphthalene**	**0.0829**	J	mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
85-01-8	**Phenanthrene**	**1.52**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
108-95-2	Phenol	ND		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR
129-00-0	**Pyrene**	**2.00**		mg/kg dry	0.0433	0.0864	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:23	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*77.5 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*72.0 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*89.3 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*70.5 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*78.8 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*82.1 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
50-29-3	**4,4'-DDT**	**0.00684**		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB

Sample Information

Client Sample ID: **SB-2 (0'-2')** **York Sample ID:** **18H0563-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:21 am	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 21:52	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0340	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
60-57-1	**Dieldrin**	**0.00261**		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/16/2018 21:52	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
72-20-8	**Endrin**	**0.00348**		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
7421-93-4	**Endrin aldehyde**	**0.00217**		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 21:52	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00849	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.0860	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 21:52	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*48.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*55.8 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

Sample Information

Client Sample ID: **SB-2 (0'-2')** **York Sample ID:** **18H0563-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:21 am	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:20	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:20	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:20	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:20	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:20	LAB
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:20	LAB
11096-82-5	**Aroclor 1260**	**0.0342**		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:20	LAB
1336-36-3	*** Total PCBs**	**0.0342**		mg/kg dry	0.0172	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 14:20	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*51.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*47.3 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9310**		mg/kg dry	5.18	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:55	KML
7440-36-0	**Antimony**	**1.55**	B	mg/kg dry	0.518	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:55	KML
7440-38-2	**Arsenic**	**4.57**		mg/kg dry	1.04	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:55	KML
7440-39-3	**Barium**	**875**		mg/kg dry	1.04	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:55	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.104	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:55	KML
7440-43-9	**Cadmium**	**0.399**		mg/kg dry	0.311	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:55	KML
7440-70-2	**Calcium**	**8150**		mg/kg dry	5.18	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:55	KML
7440-47-3	**Chromium**	**17.7**		mg/kg dry	0.518	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:55	KML
7440-48-4	**Cobalt**	**7.61**		mg/kg dry	0.518	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:55	KML

Sample Information

Client Sample ID: **SB-2 (0'-2')** **York Sample ID:** **18H0563-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:21 am	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**29.8**		mg/kg dry	0.518	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**14700**		mg/kg dry	2.07	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**109**		mg/kg dry	0.518	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**3900**		mg/kg dry	5.18	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**294**		mg/kg dry	0.518	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**15.5**		mg/kg dry	0.518	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1860**	B	mg/kg dry	5.18	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.04	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.518	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**169**	B	mg/kg dry	10.4	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.04	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**21.6**		mg/kg dry	1.04	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**259**		mg/kg dry	1.55	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:55	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.171**		mg/kg dry	0.0311	1	EPA 7473	08/20/2018 09:08	08/20/2018 12:26	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**96.6**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB-2 (21'-23')** **York Sample ID:** **18H0563-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:55 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 06:00	08/16/2018 06:00	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 06:00	08/16/2018 06:00	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.051	0.10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
78-93-3	**2-Butanone**	**0.0040**	J	mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL

Sample Information

Client Sample ID: **SB-2 (21'-23')** **York Sample ID:** **18H0563-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:55 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.031**		mg/kg dry	0.0051	0.010	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0051	0.010	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C	08/16/2018 06:00	08/16/2018 06:00	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-2 (21'-23')** **York Sample ID:** **18H0563-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:55 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0051	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0051	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
100-42-5	Styrene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
127-18-4	**Tetrachloroethylene**	**0.0074**		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
108-88-3	Toluene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH	08/16/2018 06:00	08/16/2018 06:00	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:00	08/16/2018 06:00	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0077	0.015	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 06:00	08/16/2018 06:00	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*93.5 %*	*77-125*

Sample Information

Client Sample ID: **SB-2 (21'-23')** **York Sample ID:** **18H0563-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:55 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*103 %*			*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*108 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0852	0.170	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0852	0.170	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0852	0.170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR

Sample Information

Client Sample ID: **SB-2 (21'-23')** **York Sample ID:** **18H0563-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:55 am	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0852	0.170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0852	0.170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0852	0.170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0852	0.170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0852	0.170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
83-32-9	Acenaphthene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
208-96-8	**Acenaphthylene**	**0.114**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
62-53-3	Aniline	ND		mg/kg dry	0.171	0.341	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
120-12-7	**Anthracene**	**0.116**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
92-87-5	Benzidine	ND		mg/kg dry	0.171	0.341	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
56-55-3	**Benzo(a)anthracene**	**0.472**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
50-32-8	**Benzo(a)pyrene**	**0.527**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
205-99-2	**Benzo(b)fluoranthene**	**0.433**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR

Sample Information

Client Sample ID: **SB-2 (21'-23')** **York Sample ID:** **18H0563-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:55 am	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	**Benzo(g,h,i)perylene**	**0.269**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
207-08-9	**Benzo(k)fluoranthene**	**0.467**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.290**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0852	0.170	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
86-74-8	Carbazole	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
218-01-9	**Chrysene**	**0.467**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
53-70-3	**Dibenzo(a,h)anthracene**	**0.0988**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
206-44-0	**Fluoranthene**	**0.929**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
86-73-7	Fluorene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR

Sample Information

Client Sample ID: **SB-2 (21'-23')** **York Sample ID:** **18H0563-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:55 am	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.258**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
85-01-8	**Phenanthrene**	**0.515**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
108-95-2	Phenol	ND		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR
129-00-0	**Pyrene**	**0.840**		mg/kg dry	0.0427	0.0852	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 18:54	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*56.7 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*57.3 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*62.5 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*54.9 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*57.8 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*67.2 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
50-29-3	**4,4'-DDT**	**0.0107**		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB

Sample Information

Client Sample ID: **SB-2 (21'-23')** **York Sample ID:** **18H0563-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:55 am	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 22:07	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0337	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
60-57-1	**Dieldrin**	**0.00411**		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
33213-65-9	**Endosulfan II**	**0.00364**		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/16/2018 22:07	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
72-20-8	**Endrin**	**0.00923**		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
7421-93-4	**Endrin aldehyde**	**0.00355**		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
53494-70-5	**Endrin ketone**	**0.0128**		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 22:07	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00842	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.0852	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:07	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*71.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*71.8 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

Sample Information

Client Sample ID: **SB-2 (21'-23')** **York Sample ID:** **18H0563-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:55 am	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:44	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:44	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:44	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:44	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:44	LAB
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:44	LAB
11096-82-5	**Aroclor 1260**	**0.0499**		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 14:44	LAB
1336-36-3	*** Total PCBs**	**0.0499**		mg/kg dry	0.0170	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 14:44	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*64.9 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*64.2 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**15300**		mg/kg dry	5.11	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:57	KML
7440-36-0	**Antimony**	**2.88**	B	mg/kg dry	0.511	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:57	KML
7440-38-2	**Arsenic**	**4.79**		mg/kg dry	1.02	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:57	KML
7440-39-3	**Barium**	**495**		mg/kg dry	1.02	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:57	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.102	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:57	KML
7440-43-9	**Cadmium**	**0.344**		mg/kg dry	0.307	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:57	KML
7440-70-2	**Calcium**	**6910**		mg/kg dry	5.11	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:57	KML
7440-47-3	**Chromium**	**43.8**		mg/kg dry	0.511	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:57	KML
7440-48-4	**Cobalt**	**14.5**		mg/kg dry	0.511	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:57	KML

Sample Information

Client Sample ID: **SB-2 (21'-23')** **York Sample ID:** **18H0563-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 10:55 am	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**27.2**		mg/kg dry	0.511	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**29300**		mg/kg dry	2.04	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**35.6**		mg/kg dry	0.511	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**7500**		mg/kg dry	5.11	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**408**		mg/kg dry	0.511	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**23.7**		mg/kg dry	0.511	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**8780**	B	mg/kg dry	5.11	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.02	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.511	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**195**	B	mg/kg dry	10.2	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.02	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**46.7**		mg/kg dry	1.02	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**117**		mg/kg dry	1.53	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:57	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0959**		mg/kg dry	0.0307	1	EPA 7473	08/20/2018 09:08	08/20/2018 12:35	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**97.8**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB-3 (0'-2')** **York Sample ID:** **18H0563-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:30 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 06:30	08/16/2018 06:30	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 06:30	08/16/2018 06:30	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
95-63-6	**1,2,4-Trimethylbenzene**	**0.022**		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
108-67-8	**1,3,5-Trimethylbenzene**	**0.0096**		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.054	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
78-93-3	2-Butanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL

Sample Information

Client Sample ID: **SB-3 (0'-2')** **York Sample ID:** **18H0563-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:30 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.041**		mg/kg dry	0.0054	0.011	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	**Ethyl Benzene**	**0.0034**	J	mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 06:30	08/16/2018 06:30	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-3 (0'-2')** **York Sample ID:** **18H0563-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:30 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
95-47-6	**o-Xylene**	**0.0075**		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
179601-23-1	**p- & m- Xylenes**	**0.014**		mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
75-65-0	**tert-Butyl alcohol (TBA)**	**0.0072**		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
108-88-3	**Toluene**	**0.0062**		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH	08/16/2018 06:30	08/16/2018 06:30	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 06:30	08/16/2018 06:30	LL
1330-20-7	**Xylenes, Total**	**0.022**		mg/kg dry	0.0082	0.016	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 06:30	08/16/2018 06:30	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*87.7 %*	*77-125*

Sample Information

Client Sample ID: **SB-3 (0'-2')** **York Sample ID:** **18H0563-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:30 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*99.1 %*			*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*116 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0907	0.181	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0907	0.181	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0907	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR

Sample Information

Client Sample ID: **SB-3 (0'-2')** **York Sample ID:** **18H0563-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:30 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0907	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0907	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0907	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0907	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0907	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
83-32-9	Acenaphthene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
62-53-3	Aniline	ND		mg/kg dry	0.182	0.363	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
120-12-7	Anthracene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
92-87-5	Benzidine	ND		mg/kg dry	0.182	0.363	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
56-55-3	**Benzo(a)anthracene**	**0.108**		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
50-32-8	**Benzo(a)pyrene**	**0.159**		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
205-99-2	**Benzo(b)fluoranthene**	**0.160**		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR

Sample Information

Client Sample ID: **SB-3 (0'-2')** **York Sample ID:** **18H0563-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:30 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	**Benzo(g,h,i)perylene**	**0.147**		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
207-08-9	**Benzo(k)fluoranthene**	**0.125**		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
85-68-7	**Benzyl butyl phthalate**	**0.0522**	J	mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0907	0.181	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
86-74-8	Carbazole	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
218-01-9	**Chrysene**	**0.129**		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
206-44-0	**Fluoranthene**	**0.116**		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
86-73-7	Fluorene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR

Sample Information

Client Sample ID: **SB-3 (0'-2')** **York Sample ID:** **18H0563-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:30 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.125**		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
85-01-8	**Phenanthrene**	**0.0486**	J	mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
108-95-2	Phenol	ND		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR
129-00-0	**Pyrene**	**0.112**		mg/kg dry	0.0454	0.0907	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:25	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*55.6 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*54.8 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*63.6 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*53.8 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*54.9 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*64.9 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB

Sample Information

Client Sample ID: **SB-3 (0'-2')** **York Sample ID:** **18H0563-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:30 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 22:22	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0357	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
60-57-1	Dieldrin	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/16/2018 22:22	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
72-20-8	Endrin	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 22:22	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00892	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.0903	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:22	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*84.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*74.7 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

Sample Information

Client Sample ID: **SB-3 (0'-2')** **York Sample ID:** **18H0563-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:30 pm	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.180	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.180	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.180	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.180	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.180	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
11097-69-1	**Aroclor 1254**	**7.69**		mg/kg dry	0.180	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
11096-82-5	**Aroclor 1260**	**1.41**		mg/kg dry	0.180	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
1336-36-3	*** Total PCBs**	**9.11**		mg/kg dry	0.180	10	EPA 8082A Certifications:	08/15/2018 14:35	08/17/2018 14:38	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*59.4 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*69.7 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**16900**		mg/kg dry	5.44	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:59	KML
7440-36-0	**Antimony**	**3.59**	B	mg/kg dry	0.544	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:59	KML
7440-38-2	**Arsenic**	**5.57**		mg/kg dry	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:59	KML
7440-39-3	**Barium**	**509**		mg/kg dry	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:59	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.109	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:59	KML
7440-43-9	**Cadmium**	**0.659**		mg/kg dry	0.326	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:59	KML
7440-70-2	**Calcium**	**12600**		mg/kg dry	5.44	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:59	KML
7440-47-3	**Chromium**	**41.7**		mg/kg dry	0.544	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:59	KML
7440-48-4	**Cobalt**	**17.5**		mg/kg dry	0.544	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 12:59	KML

Sample Information

Client Sample ID: **SB-3 (0'-2')** **York Sample ID:** **18H0563-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:30 pm	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**54.7**		mg/kg dry	0.544	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**31600**		mg/kg dry	2.17	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**285**		mg/kg dry	0.544	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**9970**		mg/kg dry	5.44	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**362**		mg/kg dry	0.544	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**32.4**		mg/kg dry	0.544	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**8690**	B	mg/kg dry	5.44	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.09	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.544	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**319**	B	mg/kg dry	10.9	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.09	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**47.5**		mg/kg dry	1.09	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**201**		mg/kg dry	1.63	1	EPA 6010C	08/15/2018 09:03	08/17/2018 12:59	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.474**		mg/kg dry	0.0326	1	EPA 7473	08/20/2018 09:08	08/20/2018 12:44	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**92.0**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB-4 (0'-2')** **York Sample ID:** **18H0563-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:15 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 09:05	08/16/2018 09:05	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 09:05	08/16/2018 09:05	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.060	0.12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
78-93-3	2-Butanone	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL

Sample Information

Client Sample ID: **SB-4 (0'-2')** **York Sample ID:** **18H0563-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:15 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.030**		mg/kg dry	0.0060	0.012	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0060	0.012	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C	08/16/2018 09:05	08/16/2018 09:05	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-4 (0'-2')** **York Sample ID:** **18H0563-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:15 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0060	0.012	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0060	0.012	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
100-42-5	Styrene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
75-65-0	**tert-Butyl alcohol (TBA)**	**0.011**		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
108-88-3	Toluene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH	08/16/2018 09:05	08/16/2018 09:05	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0030	0.0060	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:05	08/16/2018 09:05	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0090	0.018	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 09:05	08/16/2018 09:05	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*101 %*	*77-125*

Sample Information

Client Sample ID: **SB-4 (0'-2')** **York Sample ID:** **18H0563-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:15 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*106 %*			*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*112 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0997	0.199	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0997	0.199	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0997	0.199	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR

Sample Information

Client Sample ID: **SB-4 (0'-2')** **York Sample ID:** **18H0563-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:15 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0997	0.199	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0997	0.199	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0997	0.199	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0997	0.199	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0997	0.199	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
83-32-9	Acenaphthene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
208-96-8	**Acenaphthylene**	**0.0725**	J	mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
62-53-3	Aniline	ND		mg/kg dry	0.200	0.399	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
120-12-7	**Anthracene**	**0.169**		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
92-87-5	Benzidine	ND		mg/kg dry	0.200	0.399	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
56-55-3	**Benzo(a)anthracene**	**0.504**		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
50-32-8	**Benzo(a)pyrene**	**0.560**		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
205-99-2	**Benzo(b)fluoranthene**	**0.469**		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR

Sample Information

Client Sample ID: **SB-4 (0'-2')** **York Sample ID:** **18H0563-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:15 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	**Benzo(g,h,i)perylene**	**0.318**		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
207-08-9	**Benzo(k)fluoranthene**	**0.484**		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0997	0.199	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
86-74-8	Carbazole	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
218-01-9	**Chrysene**	**0.523**		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
53-70-3	**Dibenzo(a,h)anthracene**	**0.104**		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
206-44-0	**Fluoranthene**	**0.980**		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
86-73-7	Fluorene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR

Sample Information

Client Sample ID: **SB-4 (0'-2')** **York Sample ID:** **18H0563-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:15 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.269**		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
85-01-8	**Phenanthrene**	**0.561**		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
108-95-2	Phenol	ND		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR
129-00-0	**Pyrene**	**0.889**		mg/kg dry	0.0500	0.0997	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 19:55	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*66.4 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*63.6 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*76.2 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*61.4 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*60.3 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*68.2 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB

Sample Information

Client Sample ID: **SB-4 (0'-2')** **York Sample ID:** **18H0563-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:15 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 22:36	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0396	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
60-57-1	Dieldrin	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/16/2018 22:36	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
72-20-8	Endrin	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 22:36	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00198	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00989	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.100	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:36	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*91.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*75.2 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

Sample Information

Client Sample ID: **SB-4 (0'-2')** **York Sample ID:** **18H0563-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:15 pm	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.200	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:51	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.200	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:51	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.200	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:51	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.200	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:51	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.200	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:51	LAB
11097-69-1	**Aroclor 1254**	**1.84**		mg/kg dry	0.200	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:51	LAB
11096-82-5	**Aroclor 1260**	**3.13**		mg/kg dry	0.200	10	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:51	LAB
1336-36-3	*** Total PCBs**	**4.97**		mg/kg dry	0.200	10	EPA 8082A Certifications:	08/15/2018 14:35	08/17/2018 14:51	LAB

	Surrogate Recoveries	Result		Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*64.4 %*		*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*144 %*	S-GC	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**10400**		mg/kg dry	6.00	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:01	KML
7440-36-0	**Antimony**	**1.30**	B	mg/kg dry	0.600	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:01	KML
7440-38-2	**Arsenic**	**5.46**		mg/kg dry	1.20	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:01	KML
7440-39-3	**Barium**	**938**		mg/kg dry	1.20	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:01	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.120	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:01	KML
7440-43-9	**Cadmium**	**0.384**		mg/kg dry	0.360	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:01	KML
7440-70-2	**Calcium**	**14600**		mg/kg dry	6.00	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:01	KML
7440-47-3	**Chromium**	**23.9**		mg/kg dry	0.600	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:01	KML
7440-48-4	**Cobalt**	**10.3**		mg/kg dry	0.600	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:01	KML

Sample Information

Client Sample ID: **SB-4 (0'-2')** **York Sample ID:** **18H0563-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:15 pm	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**41.4**		mg/kg dry	0.600	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**18400**		mg/kg dry	2.40	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**397**		mg/kg dry	0.600	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**4690**		mg/kg dry	6.00	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**293**		mg/kg dry	0.600	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**19.5**		mg/kg dry	0.600	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**2480**	B	mg/kg dry	6.00	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.20	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.600	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**387**	B	mg/kg dry	12.0	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.20	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**29.2**		mg/kg dry	1.20	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**210**		mg/kg dry	1.80	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:01	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.909**		mg/kg dry	0.0360	1	EPA 7473	08/20/2018 09:08	08/20/2018 12:53	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**83.4**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB-4 (17'-19')** **York Sample ID:** **18H0563-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:25 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 09:34	08/16/2018 09:34	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 09:34	08/16/2018 09:34	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.054	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
78-93-3	2-Butanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL

Sample Information

Client Sample ID: SB-4 (17'-19')

York Sample ID: 18H0563-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:25 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.074**		mg/kg dry	0.0054	0.011	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 09:34	08/16/2018 09:34	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-4 (17'-19')** **York Sample ID:** **18H0563-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:25 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
75-65-0	**tert-Butyl alcohol (TBA)**	**0.014**		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH	08/16/2018 09:34	08/16/2018 09:34	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 09:34	08/16/2018 09:34	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0080	0.016	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 09:34	08/16/2018 09:34	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*91.5 %*	*77-125*

Sample Information

Client Sample ID: **SB-4 (17'-19')** **York Sample ID:** **18H0563-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:25 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*91.9 %*			*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*105 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR

Sample Information

Client Sample ID: **SB-4 (17'-19')** **York Sample ID:** **18H0563-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:25 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
83-32-9	Acenaphthene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
62-53-3	Aniline	ND		mg/kg dry	0.179	0.358	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
120-12-7	Anthracene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
92-87-5	Benzidine	ND		mg/kg dry	0.179	0.358	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR

Sample Information

Client Sample ID: **SB-4 (17'-19')** **York Sample ID:** **18H0563-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:25 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0895	0.179	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
86-74-8	Carbazole	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
218-01-9	Chrysene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
206-44-0	Fluoranthene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
86-73-7	Fluorene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 20:26	SR

Sample Information

Client Sample ID: **SB-4 (17'-19')** **York Sample ID:** **18H0563-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:25 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications:	08/16/2018 07:38 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/17/2018 20:26	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications:	08/16/2018 07:38 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/17/2018 20:26	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications:	08/16/2018 07:38 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/17/2018 20:26	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications:	08/16/2018 07:38 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/17/2018 20:26	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications:	08/16/2018 07:38 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/17/2018 20:26	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications:	08/16/2018 07:38 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/17/2018 20:26	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications:	08/16/2018 07:38 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/17/2018 20:26	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications:	08/16/2018 07:38 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/17/2018 20:26	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications:	08/16/2018 07:38 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/17/2018 20:26	SR
85-01-8	Phenanthrene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications:	08/16/2018 07:38 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/17/2018 20:26	SR
108-95-2	Phenol	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications:	08/16/2018 07:38 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/17/2018 20:26	SR
129-00-0	Pyrene	ND		mg/kg dry	0.0448	0.0895	2	EPA 8270D Certifications:	08/16/2018 07:38 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/17/2018 20:26	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*65.3 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*61.2 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*74.9 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*64.0 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*70.4 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*70.2 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications:	08/15/2018 14:35 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 22:51	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications:	08/15/2018 14:35 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 22:51	LAB
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications:	08/15/2018 14:35 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 22:51	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications:	08/15/2018 14:35 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 22:51	LAB

Sample Information

Client Sample ID: **SB-4 (17'-19')** **York Sample ID:** **18H0563-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:25 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 22:51	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0352	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
60-57-1	Dieldrin	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/16/2018 22:51	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
72-20-8	Endrin	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 22:51	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00880	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.0891	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 22:51	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*59.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*57.9 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

Sample Information

Client Sample ID: **SB-4 (17'-19')** **York Sample ID:** **18H0563-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:25 pm	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 16:52	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 16:52	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 16:52	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 16:52	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 16:52	LAB
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 16:52	LAB
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 16:52	LAB
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 16:52	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*53.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*58.2 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7140**		mg/kg dry	5.36	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-36-0	Antimony	ND		mg/kg dry	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-38-2	**Arsenic**	**1.55**		mg/kg dry	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-39-3	**Barium**	**29.9**		mg/kg dry	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-41-7	**Beryllium**	**0.212**		mg/kg dry	0.107	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.322	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-70-2	**Calcium**	**851**		mg/kg dry	5.36	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-47-3	**Chromium**	**10.7**		mg/kg dry	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-48-4	**Cobalt**	**6.06**		mg/kg dry	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML

Sample Information

Client Sample ID: **SB-4 (17'-19')** **York Sample ID:** **18H0563-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:25 pm	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**11.5**		mg/kg dry	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7439-89-6	**Iron**	**13700**		mg/kg dry	2.15	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7439-92-1	**Lead**	**5.46**		mg/kg dry	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7439-95-4	**Magnesium**	**2820**		mg/kg dry	5.36	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7439-96-5	**Manganese**	**257**		mg/kg dry	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-02-0	**Nickel**	**12.8**		mg/kg dry	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-09-7	**Potassium**	**1040**	B	mg/kg dry	5.36	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7782-49-2	Selenium	ND		mg/kg dry	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-22-4	Silver	ND		mg/kg dry	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-23-5	**Sodium**	**96.8**	B	mg/kg dry	10.7	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-28-0	Thallium	ND		mg/kg dry	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-62-2	**Vanadium**	**13.9**		mg/kg dry	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML
7440-66-6	**Zinc**	**38.2**		mg/kg dry	1.61	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:03	KML

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0322	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	08/20/2018 09:08	08/20/2018 13:06	SY

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**93.2**		%	0.100	1	SM 2540G Certifications: CTDOH	08/17/2018 10:26	08/17/2018 16:13	TAJ

Sample Information

Client Sample ID: **SB-5 (0'-2')** **York Sample ID:** **18H0563-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:25 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 10:04	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 10:04	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.052	0.10	1	EPA 8260C Certifications:	08/16/2018 10:04 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
78-93-3	2-Butanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications:	08/16/2018 10:04 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	LL

Sample Information

Client Sample ID: **SB-5 (0'-2')** **York Sample ID:** **18H0563-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:25 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.040**		mg/kg dry	0.0052	0.010	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0052	0.010	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C	08/16/2018 10:04	08/16/2018 10:04	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-5 (0'-2')** **York Sample ID:** **18H0563-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:25 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0052	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0052	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
100-42-5	Styrene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
108-88-3	Toluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH	08/16/2018 10:04	08/16/2018 10:04	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:04	08/16/2018 10:04	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0078	0.016	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 10:04	08/16/2018 10:04	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*91.3 %*	*77-125*
2037-26-5	*Surrogate: Toluene-d8*	*99.5 %*	*85-120*

Sample Information

Client Sample ID: **SB-5 (0'-2')** **York Sample ID:** **18H0563-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:25 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	*Surrogate: p-Bromofluorobenzene*	*113 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0871	0.174	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0871	0.174	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0871	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0871	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR

Sample Information

Client Sample ID: **SB-5 (0'-2')** **York Sample ID:** **18H0563-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:25 am	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0871	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0871	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0871	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0871	0.174	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
83-32-9	Acenaphthene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
62-53-3	Aniline	ND		mg/kg dry	0.174	0.349	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
120-12-7	**Anthracene**	**0.0494**	J	mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
92-87-5	Benzidine	ND		mg/kg dry	0.174	0.349	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
56-55-3	**Benzo(a)anthracene**	**0.135**		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
50-32-8	**Benzo(a)pyrene**	**0.129**		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
205-99-2	**Benzo(b)fluoranthene**	**0.113**		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
191-24-2	**Benzo(g,h,i)perylene**	**0.0724**	J	mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR

Sample Information

Client Sample ID: **SB-5 (0'-2')** **York Sample ID:** **18H0563-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:25 am	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	**Benzo(k)fluoranthene**	**0.117**		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0871	0.174	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
86-74-8	Carbazole	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
218-01-9	**Chrysene**	**0.143**		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
206-44-0	**Fluoranthene**	**0.336**		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
86-73-7	Fluorene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR

Sample Information

Client Sample ID: **SB-5 (0'-2')** **York Sample ID:** **18H0563-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:25 am	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.0654**	J	mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
85-01-8	**Phenanthrene**	**0.275**		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
108-95-2	Phenol	ND		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR
129-00-0	**Pyrene**	**0.276**		mg/kg dry	0.0436	0.0871	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 21:59	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*73.2 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*68.9 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*81.2 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*66.2 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*73.2 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*78.9 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
319-84-6	alpha-BHC	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB

Sample Information

Client Sample ID: **SB-5 (0'-2')** **York Sample ID:** **18H0563-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:25 am	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 23:06	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0343	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
60-57-1	Dieldrin	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/16/2018 23:06	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
72-20-8	Endrin	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 23:06	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00857	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.0868	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:06	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*55.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*55.7 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:16	LAB

Sample Information

Client Sample ID: **SB-5 (0'-2')** **York Sample ID:** **18H0563-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:25 am	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:16	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:16	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:16	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:16	LAB
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:16	LAB
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:16	LAB
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 17:16	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*51.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*45.8 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7860**		mg/kg dry	5.22	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:05	KML
7440-36-0	Antimony	ND		mg/kg dry	0.522	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:05	KML
7440-38-2	**Arsenic**	**1.77**		mg/kg dry	1.04	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:05	KML
7440-39-3	**Barium**	**57.3**		mg/kg dry	1.04	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:05	KML
7440-41-7	**Beryllium**	**0.184**		mg/kg dry	0.104	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:05	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.313	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:05	KML
7440-70-2	**Calcium**	**1920**		mg/kg dry	5.22	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:05	KML
7440-47-3	**Chromium**	**13.3**		mg/kg dry	0.522	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:05	KML
7440-48-4	**Cobalt**	**4.83**		mg/kg dry	0.522	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:05	KML
7440-50-8	**Copper**	**11.7**		mg/kg dry	0.522	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:05	KML
7439-89-6	**Iron**	**11100**		mg/kg dry	2.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:03	08/17/2018 13:05	KML

Sample Information

Client Sample ID: **SB-5 (0'-2')** **York Sample ID:** **18H0563-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:25 am	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**59.1**		mg/kg dry	0.522	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**2870**		mg/kg dry	5.22	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**289**		mg/kg dry	0.522	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**11.0**		mg/kg dry	0.522	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1110**	B	mg/kg dry	5.22	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.04	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.522	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**170**	B	mg/kg dry	10.4	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.04	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**15.4**		mg/kg dry	1.04	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**87.3**		mg/kg dry	1.57	1	EPA 6010C	08/15/2018 09:03	08/17/2018 13:05	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0873**		mg/kg dry	0.0313	1	EPA 7473	08/20/2018 09:08	08/20/2018 13:14	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**95.8**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB-5 (10'-12')** **York Sample ID:** **18H0563-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:46 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 10:34	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 10:34	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.064	0.13	1	EPA 8260C Certifications:	08/16/2018 10:34 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
78-93-3	**2-Butanone**	**0.011**		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications:	08/16/2018 10:34 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	LL

Sample Information

Client Sample ID: **SB-5 (10'-12')** **York Sample ID:** **18H0563-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:46 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.17**		mg/kg dry	0.0064	0.013	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
107-02-8	Acrolein	ND		mg/kg dry	0.0064	0.013	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
71-43-2	Benzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
75-25-2	Bromoform	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
74-83-9	Bromomethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
75-00-3	Chloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
67-66-3	Chloroform	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
74-87-3	Chloromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
110-82-7	Cyclohexane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
74-95-3	Dibromomethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL

Sample Information

Client Sample ID: **SB-5 (10'-12')** **York Sample ID:** **18H0563-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:46 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
75-09-2	**Methylene chloride**	**0.012**	J	mg/kg dry	0.0064	0.013	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0064	0.013	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
100-42-5	Styrene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
75-65-0	**tert-Butyl alcohol (TBA)**	**0.14**		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
108-88-3	Toluene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH	08/16/2018 10:34	08/16/2018 10:34	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 10:34	08/16/2018 10:34	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0097	0.019	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 10:34	08/16/2018 10:34	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*91.0 %*	*77-125*

Sample Information

Client Sample ID: **SB-5 (10'-12')** **York Sample ID:** **18H0563-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:46 am	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*101 %*			*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*110 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.107	0.215	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.107	0.215	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.107	0.215	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR

Sample Information

Client Sample ID: **SB-5 (10'-12')** **York Sample ID:** **18H0563-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:46 am	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.107	0.215	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.107	0.215	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.107	0.215	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.107	0.215	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.107	0.215	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
83-32-9	Acenaphthene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
62-53-3	Aniline	ND		mg/kg dry	0.215	0.430	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
120-12-7	Anthracene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
92-87-5	Benzidine	ND		mg/kg dry	0.215	0.430	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR

Sample Information

Client Sample ID: **SB-5 (10'-12')** **York Sample ID:** **18H0563-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:46 am	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.107	0.215	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
86-74-8	Carbazole	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
218-01-9	Chrysene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
206-44-0	**Fluoranthene**	**0.0867**	J	mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
86-73-7	Fluorene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR

Sample Information

Client Sample ID: **SB-5 (10'-12')** **York Sample ID:** **18H0563-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:46 am	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
85-01-8	**Phenanthrene**	**0.0635**	J	mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
108-95-2	Phenol	ND		mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR
129-00-0	**Pyrene**	**0.0773**	J	mg/kg dry	0.0538	0.107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 22:30	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*62.9 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*65.4 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*73.8 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*63.6 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*38.0 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*73.3 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB

Sample Information

Client Sample ID: **SB-5 (10'-12')** **York Sample ID:** **18H0563-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:46 am	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 23:21	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0425	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
60-57-1	Dieldrin	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/16/2018 23:21	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
72-20-8	Endrin	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 23:21	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00212	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.0106	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.107	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:21	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*55.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*56.7 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

Sample Information

Client Sample ID: **SB-5 (10'-12')** **York Sample ID:** **18H0563-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:46 am	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:40	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:40	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:40	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:40	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:40	LAB
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:40	LAB
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 17:40	LAB
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 17:40	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*54.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*55.7 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8570**	B	mg/kg dry	6.44	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-36-0	**Antimony**	**1.94**		mg/kg dry	0.644	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-38-2	**Arsenic**	**3.80**		mg/kg dry	1.29	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-39-3	**Barium**	**62.1**		mg/kg dry	1.29	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.129	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.386	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-70-2	**Calcium**	**10000**		mg/kg dry	6.44	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-47-3	**Chromium**	**20.4**		mg/kg dry	0.644	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-48-4	**Cobalt**	**6.37**		mg/kg dry	0.644	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML

Sample Information

Client Sample ID: **SB-5 (10'-12')** **York Sample ID:** **18H0563-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 11:46 am	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**13.1**		mg/kg dry	0.644	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7439-89-6	**Iron**	**13800**		mg/kg dry	2.58	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7439-92-1	**Lead**	**18.2**		mg/kg dry	0.644	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7439-95-4	**Magnesium**	**3020**		mg/kg dry	6.44	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7439-96-5	**Manganese**	**377**		mg/kg dry	0.644	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-02-0	**Nickel**	**15.6**		mg/kg dry	0.644	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-09-7	**Potassium**	**1700**		mg/kg dry	6.44	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7782-49-2	Selenium	ND		mg/kg dry	1.29	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-22-4	Silver	ND		mg/kg dry	0.644	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-23-5	**Sodium**	**348**	B	mg/kg dry	12.9	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-28-0	Thallium	ND		mg/kg dry	1.29	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-62-2	**Vanadium**	**18.6**		mg/kg dry	1.29	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML
7440-66-6	**Zinc**	**47.4**		mg/kg dry	1.93	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:29	KML

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0386	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	08/20/2018 09:08	08/20/2018 13:23	SY

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**77.6**		%	0.100	1	SM 2540G Certifications: CTDOH	08/17/2018 10:26	08/17/2018 16:13	TAJ

Sample Information

Client Sample ID: **SB-6 (0'-2')** **York Sample ID:** **18H0563-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:07 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 11:03	08/16/2018 11:03	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 11:03	08/16/2018 11:03	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.055	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
78-93-3	**2-Butanone**	**0.0031**	J	mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL

Sample Information

Client Sample ID: **SB-6 (0'-2')** **York Sample ID:** **18H0563-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:07 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.11**		mg/kg dry	0.0055	0.011	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0055	0.011	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	**Benzene**	**0.0031**	J	mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C	08/16/2018 11:03	08/16/2018 11:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-6 (0'-2')** **York Sample ID:** **18H0563-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:07 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0055	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0055	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
100-42-5	Styrene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
75-65-0	**tert-Butyl alcohol (TBA)**	**0.017**		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
108-88-3	Toluene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH	08/16/2018 11:03	08/16/2018 11:03	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:03	08/16/2018 11:03	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0083	0.017	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 11:03	08/16/2018 11:03	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*94.0 %*	*77-125*

Sample Information

Client Sample ID: **SB-6 (0'-2')** **York Sample ID:** **18H0563-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:07 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*116 %*			*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*121 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR

Sample Information

Client Sample ID: **SB-6 (0'-2')** **York Sample ID:** **18H0563-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:07 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
83-32-9	**Acenaphthene**	**0.179**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
208-96-8	**Acenaphthylene**	**0.0706**	J	mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
62-53-3	Aniline	ND		mg/kg dry	0.184	0.368	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
120-12-7	**Anthracene**	**0.451**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
92-87-5	Benzidine	ND		mg/kg dry	0.184	0.368	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
56-55-3	**Benzo(a)anthracene**	**1.05**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
50-32-8	**Benzo(a)pyrene**	**1.10**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
205-99-2	**Benzo(b)fluoranthene**	**0.886**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR

Sample Information

Client Sample ID: **SB-6 (0'-2')** **York Sample ID:** **18H0563-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:07 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	**Benzo(g,h,i)perylene**	**0.562**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
207-08-9	**Benzo(k)fluoranthene**	**0.903**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
86-74-8	**Carbazole**	**0.128**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
218-01-9	**Chrysene**	**1.09**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
53-70-3	**Dibenzo(a,h)anthracene**	**0.200**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
132-64-9	**Dibenzofuran**	**0.0757**	J	mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
206-44-0	**Fluoranthene**	**2.62**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
86-73-7	**Fluorene**	**0.148**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR

Sample Information

Client Sample ID: **SB-6 (0'-2')** **York Sample ID:** **18H0563-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:07 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.515**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
85-01-8	**Phenanthrene**	**1.98**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
108-95-2	Phenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR
129-00-0	**Pyrene**	**2.20**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:00	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*67.7 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*70.0 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*76.7 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*64.1 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*69.6 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*71.7 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
50-29-3	**4,4'-DDT**	**0.00469**		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB

Sample Information

Client Sample ID: **SB-6 (0'-2')** **York Sample ID:** **18H0563-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:07 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 23:36	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0362	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
60-57-1	**Dieldrin**	**0.00242**		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/16/2018 23:36	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
72-20-8	**Endrin**	**0.00372**		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
7421-93-4	**Endrin aldehyde**	**0.00203**		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 23:36	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00181	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00904	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.0915	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:36	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*54.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*67.6 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

Sample Information

Client Sample ID: **SB-6 (0'-2')** **York Sample ID:** **18H0563-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:07 pm	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:04	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:04	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:04	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:04	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:04	LAB
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:04	LAB
11096-82-5	**Aroclor 1260**	**0.0302**		mg/kg dry	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:04	LAB
1336-36-3	*** Total PCBs**	**0.0302**		mg/kg dry	0.0183	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 18:04	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*61.9 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*57.2 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8850**	B	mg/kg dry	5.51	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:41	KML
7440-36-0	**Antimony**	**1.64**		mg/kg dry	0.551	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:41	KML
7440-38-2	**Arsenic**	**4.79**		mg/kg dry	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:41	KML
7440-39-3	**Barium**	**215**		mg/kg dry	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:41	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.110	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:41	KML
7440-43-9	**Cadmium**	**0.753**		mg/kg dry	0.331	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:41	KML
7440-70-2	**Calcium**	**10200**		mg/kg dry	5.51	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:41	KML
7440-47-3	**Chromium**	**17.0**		mg/kg dry	0.551	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:41	KML
7440-48-4	**Cobalt**	**7.60**		mg/kg dry	0.551	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:41	KML

Sample Information

Client Sample ID: **SB-6 (0'-2')** **York Sample ID:** **18H0563-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:07 pm	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**46.8**		mg/kg dry	0.551	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**14600**		mg/kg dry	2.21	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**328**		mg/kg dry	0.551	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**3340**		mg/kg dry	5.51	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**240**		mg/kg dry	0.551	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**16.7**		mg/kg dry	0.551	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1460**		mg/kg dry	5.51	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.10	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.551	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**311**	B	mg/kg dry	11.0	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.10	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**19.9**		mg/kg dry	1.10	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**262**		mg/kg dry	1.65	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:41	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.286**		mg/kg dry	0.0331	1	EPA 7473	08/20/2018 09:08	08/20/2018 13:32	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**90.7**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB-6 (10'-12')** **York Sample ID:** **18H0563-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:25 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 11:33	08/16/2018 11:33	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 11:33	08/16/2018 11:33	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.063	0.13	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
78-93-3	**2-Butanone**	**0.021**		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL

Sample Information

Client Sample ID: **SB-6 (10'-12')** **York Sample ID:** **18H0563-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:25 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.14**		mg/kg dry	0.0063	0.013	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0063	0.013	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C	08/16/2018 11:33	08/16/2018 11:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-6 (10'-12')** **York Sample ID:** **18H0563-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:25 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0063	0.013	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0063	0.013	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
100-42-5	Styrene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
75-65-0	**tert-Butyl alcohol (TBA)**	**0.010**		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
108-88-3	Toluene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH	08/16/2018 11:33	08/16/2018 11:33	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 11:33	08/16/2018 11:33	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0094	0.019	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 11:33	08/16/2018 11:33	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*93.1 %*	*77-125*

Sample Information

Client Sample ID: **SB-6 (10'-12')** **York Sample ID:** **18H0563-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:25 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*96.5 %*			*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*105 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR

Sample Information

Client Sample ID: **SB-6 (10'-12')** **York Sample ID:** **18H0563-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:25 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
83-32-9	Acenaphthene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
62-53-3	Aniline	ND		mg/kg dry	0.210	0.420	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
120-12-7	Anthracene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
92-87-5	Benzidine	ND		mg/kg dry	0.210	0.420	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
56-55-3	**Benzo(a)anthracene**	**0.143**		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
50-32-8	**Benzo(a)pyrene**	**0.165**		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
205-99-2	**Benzo(b)fluoranthene**	**0.139**		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR

Sample Information

Client Sample ID: **SB-6 (10'-12')** **York Sample ID:** **18H0563-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:25 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	**Benzo(g,h,i)perylene**	**0.104**	J	mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
207-08-9	**Benzo(k)fluoranthene**	**0.153**		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.225**		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
86-74-8	Carbazole	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
218-01-9	**Chrysene**	**0.160**		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
206-44-0	**Fluoranthene**	**0.328**		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
86-73-7	Fluorene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR

Sample Information

Client Sample ID: **SB-6 (10'-12')** **York Sample ID:** **18H0563-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:25 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.0880**	J	mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
85-01-8	**Phenanthrene**	**0.238**		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
108-95-2	Phenol	ND		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR
129-00-0	**Pyrene**	**0.286**		mg/kg dry	0.0526	0.105	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/16/2018 07:38	08/17/2018 23:32	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*62.1 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*65.2 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*79.4 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*65.0 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*38.0 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*80.6 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB

Sample Information

Client Sample ID: **SB-6 (10'-12')** **York Sample ID:** **18H0563-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:25 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 23:51	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0415	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
60-57-1	Dieldrin	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/16/2018 23:51	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
72-20-8	Endrin	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/16/2018 23:51	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00207	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.0104	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.105	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 23:51	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*65.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*72.6 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

Sample Information

Client Sample ID: **SB-6 (10'-12')** **York Sample ID:** **18H0563-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:25 pm	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0209	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:28	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0209	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:28	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0209	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:28	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0209	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:28	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0209	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:28	LAB
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0209	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:28	LAB
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0209	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:28	LAB
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0209	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 18:28	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*66.8 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*63.7 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**23400**	B	mg/kg dry	6.29	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:43	KML
7440-36-0	**Antimony**	**4.71**		mg/kg dry	0.629	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:43	KML
7440-38-2	**Arsenic**	**7.07**		mg/kg dry	1.26	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:43	KML
7440-39-3	**Barium**	**879**		mg/kg dry	1.26	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:43	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.126	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:43	KML
7440-43-9	**Cadmium**	**1.08**		mg/kg dry	0.377	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:43	KML
7440-70-2	**Calcium**	**16700**		mg/kg dry	6.29	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:43	KML
7440-47-3	**Chromium**	**58.1**		mg/kg dry	0.629	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:43	KML
7440-48-4	**Cobalt**	**26.4**		mg/kg dry	0.629	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:43	KML

Sample Information

Client Sample ID: **SB-6 (10'-12')** **York Sample ID:** **18H0563-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 12:25 pm	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**43.9**		mg/kg dry	0.629	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**45400**		mg/kg dry	2.52	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**92.2**		mg/kg dry	0.629	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**14100**		mg/kg dry	6.29	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**650**		mg/kg dry	0.629	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**47.2**		mg/kg dry	0.629	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**15000**		mg/kg dry	6.29	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.26	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.629	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**424**	B	mg/kg dry	12.6	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.26	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**73.3**		mg/kg dry	1.26	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**232**		mg/kg dry	1.89	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:43	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0860**		mg/kg dry	0.0377	1	EPA 7473	08/20/2018 09:08	08/20/2018 14:00	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**79.5**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB-7 (0'-2')** **York Sample ID:** **18H0563-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:15 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 12:03	08/16/2018 12:03	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 12:03	08/16/2018 12:03	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.054	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
78-93-3	2-Butanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL

Sample Information

Client Sample ID: **SB-7 (0'-2')** **York Sample ID:** **18H0563-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:15 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.036**		mg/kg dry	0.0054	0.011	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C	08/16/2018 12:03	08/16/2018 12:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-7 (0'-2')** **York Sample ID:** **18H0563-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:15 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
75-65-0	**tert-Butyl alcohol (TBA)**	**0.0065**		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH	08/16/2018 12:03	08/16/2018 12:03	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:03	08/16/2018 12:03	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0082	0.016	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 12:03	08/16/2018 12:03	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*89.4 %*	*77-125*

Sample Information

Client Sample ID: **SB-7 (0'-2')** **York Sample ID:** **18H0563-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:15 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*100 %*			*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*104 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	**1,1-Biphenyl**	**0.0588**	J	mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0908	0.181	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0908	0.181	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0908	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
91-57-6	**2-Methylnaphthalene**	**0.139**		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR

Sample Information

Client Sample ID: **SB-7 (0'-2')** **York Sample ID:** **18H0563-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:15 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0908	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0908	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0908	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0908	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0908	0.181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
83-32-9	**Acenaphthene**	**1.34**		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
208-96-8	**Acenaphthylene**	**0.100**		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
62-53-3	Aniline	ND		mg/kg dry	0.182	0.364	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
120-12-7	**Anthracene**	**3.22**		mg/kg dry	0.455	0.908	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 14:16	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
92-87-5	Benzidine	ND		mg/kg dry	0.182	0.364	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
56-55-3	**Benzo(a)anthracene**	**5.77**		mg/kg dry	0.455	0.908	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 14:16	SR
50-32-8	**Benzo(a)pyrene**	**5.64**		mg/kg dry	0.455	0.908	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 14:16	SR
205-99-2	**Benzo(b)fluoranthene**	**4.48**		mg/kg dry	0.455	0.908	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 14:16	SR

Sample Information

Client Sample ID: **SB-7 (0'-2')** **York Sample ID:** **18H0563-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:15 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	**Benzo(g,h,i)perylene**	**2.89**		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
207-08-9	**Benzo(k)fluoranthene**	**4.59**		mg/kg dry	0.455	0.908	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 14:16	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0908	0.181	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
86-74-8	**Carbazole**	**1.19**		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
218-01-9	**Chrysene**	**6.09**		mg/kg dry	0.455	0.908	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 14:16	SR
53-70-3	**Dibenzo(a,h)anthracene**	**1.09**		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
132-64-9	**Dibenzofuran**	**0.576**		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
206-44-0	**Fluoranthene**	**14.6**		mg/kg dry	0.455	0.908	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 14:16	SR
86-73-7	**Fluorene**	**1.20**		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR

Sample Information

Client Sample ID: **SB-7 (0'-2')** **York Sample ID:** **18H0563-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:15 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**2.84**		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
91-20-3	**Naphthalene**	**0.370**		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
85-01-8	**Phenanthrene**	**12.5**		mg/kg dry	0.455	0.908	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 14:16	SR
108-95-2	Phenol	ND		mg/kg dry	0.0455	0.0908	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:14	SR
129-00-0	**Pyrene**	**12.4**		mg/kg dry	0.455	0.908	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 14:16	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*58.7 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*62.5 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*65.9 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*60.7 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*55.6 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*66.2 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
72-55-9	**4,4'-DDE**	**0.00241**		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
50-29-3	**4,4'-DDT**	**0.0114**		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB

Sample Information

Client Sample ID: **SB-7 (0'-2')** **York Sample ID:** **18H0563-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:15 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/17/2018 14:38	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0358	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
60-57-1	**Dieldrin**	**0.00381**		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/17/2018 14:38	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
72-20-8	Endrin	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
53494-70-5	**Endrin ketone**	**0.00763**		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/17/2018 14:38	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00895	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.0906	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:38	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*45.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*43.8 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

Sample Information

Client Sample ID: **SB-7 (0'-2')** **York Sample ID:** **18H0563-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:15 pm	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:53	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:53	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:53	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:53	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:53	LAB
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:53	LAB
11096-82-5	**Aroclor 1260**	**0.109**		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 18:53	LAB
1336-36-3	*** Total PCBs**	**0.109**		mg/kg dry	0.0181	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 18:53	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*55.9 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*53.7 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8210**	B	mg/kg dry	5.45	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:45	KML
7440-36-0	**Antimony**	**1.77**		mg/kg dry	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:45	KML
7440-38-2	**Arsenic**	**6.33**		mg/kg dry	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:45	KML
7440-39-3	**Barium**	**179**		mg/kg dry	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:45	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.109	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:45	KML
7440-43-9	**Cadmium**	**0.574**		mg/kg dry	0.327	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:45	KML
7440-70-2	**Calcium**	**23200**		mg/kg dry	5.45	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:45	KML
7440-47-3	**Chromium**	**19.0**		mg/kg dry	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:45	KML
7440-48-4	**Cobalt**	**8.52**		mg/kg dry	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:45	KML

Sample Information

Client Sample ID: **SB-7 (0'-2')** **York Sample ID:** **18H0563-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 2:15 pm	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**103**		mg/kg dry	0.545	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**19600**		mg/kg dry	2.18	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**358**		mg/kg dry	0.545	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**5600**		mg/kg dry	5.45	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**299**		mg/kg dry	0.545	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**20.9**		mg/kg dry	0.545	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**2010**		mg/kg dry	5.45	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.09	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.545	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**572**	B	mg/kg dry	10.9	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.09	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**26.4**		mg/kg dry	1.09	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**253**		mg/kg dry	1.63	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:45	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.694**		mg/kg dry	0.0327	1	EPA 7473	08/20/2018 09:08	08/20/2018 14:09	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.8**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB-7 (10'-12')** **York Sample ID:** **18H0563-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:40 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 12:33	08/16/2018 12:33	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
87-61-6	1,2,3-Trichlorobenzene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
96-18-4	1,2,3-Trichloropropane	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 12:33	08/16/2018 12:33	LL
120-82-1	1,2,4-Trichlorobenzene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
95-63-6	1,2,4-Trimethylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.055	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
78-93-3	**2-Butanone**	**0.0090**		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL

Sample Information

Client Sample ID: **SB-7 (10'-12')** **York Sample ID:** **18H0563-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:40 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.099**		mg/kg dry	0.0055	0.011	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0055	0.011	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	**Benzene**	**0.0029**	J	mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	**Carbon disulfide**	**0.0039**	J	mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	**Cyclohexane**	**0.023**		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 12:33	08/16/2018 12:33	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-7 (10'-12')** **York Sample ID:** **18H0563-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:40 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
108-87-2	**Methylcyclohexane**	**0.058**		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0055	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
104-51-8	n-Butylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
103-65-1	n-Propylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0055	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
99-87-6	p-Isopropyltoluene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
135-98-8	sec-Butylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
75-65-0	**tert-Butyl alcohol (TBA)**	**0.010**		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
98-06-6	tert-Butylbenzene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND	IS-LO	mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH	08/16/2018 12:33	08/16/2018 12:33	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 12:33	08/16/2018 12:33	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0082	0.016	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 12:33	08/16/2018 12:33	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*91.3 %*	*77-125*

Sample Information

Client Sample ID: **SB-7 (10'-12')** **York Sample ID:** **18H0563-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:40 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*135 %*	S-08		*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*129 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR

Sample Information

Client Sample ID: **SB-7 (10'-12')** **York Sample ID:** **18H0563-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:40 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
83-32-9	**Acenaphthene**	**0.0998**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
208-96-8	**Acenaphthylene**	**0.0685**	J	mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
62-53-3	Aniline	ND		mg/kg dry	0.182	0.365	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
120-12-7	**Anthracene**	**0.299**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
92-87-5	Benzidine	ND		mg/kg dry	0.182	0.365	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
56-55-3	**Benzo(a)anthracene**	**1.10**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
50-32-8	**Benzo(a)pyrene**	**1.32**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
205-99-2	**Benzo(b)fluoranthene**	**0.924**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR

Sample Information

Client Sample ID: **SB-7 (10'-12')** **York Sample ID:** **18H0563-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:40 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	**Benzo(g,h,i)perylene**	**0.653**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
207-08-9	**Benzo(k)fluoranthene**	**0.928**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.263**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
86-74-8	Carbazole	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
218-01-9	**Chrysene**	**1.21**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
53-70-3	**Dibenzo(a,h)anthracene**	**0.216**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
206-44-0	**Fluoranthene**	**1.91**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
86-73-7	**Fluorene**	**0.0845**	J	mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR

Sample Information

Client Sample ID: **SB-7 (10'-12')** **York Sample ID:** **18H0563-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:40 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.538**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
85-01-8	**Phenanthrene**	**1.15**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
108-95-2	Phenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR
129-00-0	**Pyrene**	**2.26**		mg/kg dry	0.0457	0.0911	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 02:46	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*52.6 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*53.4 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*60.9 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*54.6 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*43.4 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*65.1 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB

Sample Information

Client Sample ID: **SB-7 (10'-12')** **York Sample ID:** **18H0563-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:40 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/17/2018 14:23	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0358	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
60-57-1	Dieldrin	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/17/2018 14:23	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
72-20-8	Endrin	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/17/2018 14:23	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00896	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.0907	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 14:23	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*39.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*37.2 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

Sample Information

Client Sample ID: **SB-7 (10'-12')** **York Sample ID:** **18H0563-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:40 pm	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:17	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:17	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:17	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:17	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:17	LAB
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:17	LAB
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:17	LAB
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 19:17	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*44.1 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*51.7 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7370**	B	mg/kg dry	5.46	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:47	KML
7440-36-0	**Antimony**	**4.44**		mg/kg dry	0.546	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:47	KML
7440-38-2	**Arsenic**	**6.39**		mg/kg dry	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:47	KML
7440-39-3	**Barium**	**104**		mg/kg dry	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:47	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.109	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:47	KML
7440-43-9	**Cadmium**	**0.642**		mg/kg dry	0.328	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:47	KML
7440-70-2	**Calcium**	**50400**		mg/kg dry	5.46	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:47	KML
7440-47-3	**Chromium**	**21.1**		mg/kg dry	0.546	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:47	KML
7440-48-4	**Cobalt**	**7.21**		mg/kg dry	0.546	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:47	KML

Sample Information

Client Sample ID: **SB-7 (10'-12')** **York Sample ID:** **18H0563-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 1:40 pm	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**98.6**		mg/kg dry	0.546	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**22800**		mg/kg dry	2.19	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**338**		mg/kg dry	0.546	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**5110**		mg/kg dry	5.46	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**351**		mg/kg dry	0.546	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**17.9**		mg/kg dry	0.546	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**1620**		mg/kg dry	5.46	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.09	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.546	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**462**	B	mg/kg dry	10.9	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.09	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**21.1**		mg/kg dry	1.09	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**210**		mg/kg dry	1.64	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:47	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.583**		mg/kg dry	0.0328	1	EPA 7473	08/20/2018 09:08	08/20/2018 14:22	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.5**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB-8 (0'-2')** **York Sample ID:** **18H0563-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:20 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 13:03	08/16/2018 13:03	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 13:03	08/16/2018 13:03	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.055	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
78-93-3	2-Butanone	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL

Sample Information

Client Sample ID: **SB-8 (0'-2')** **York Sample ID:** **18H0563-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:20 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.019**		mg/kg dry	0.0055	0.011	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0055	0.011	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C	08/16/2018 13:03	08/16/2018 13:03	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-8 (0'-2')** **York Sample ID:** **18H0563-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:20 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
75-09-2	**Methylene chloride**	**0.0079**	J	mg/kg dry	0.0055	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0055	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
127-18-4	**Tetrachloroethylene**	**0.014**		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH	08/16/2018 13:03	08/16/2018 13:03	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 13:03	08/16/2018 13:03	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0082	0.016	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 13:03	08/16/2018 13:03	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*89.1 %*	*77-125*

Sample Information

Client Sample ID: **SB-8 (0'-2')** **York Sample ID:** **18H0563-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:20 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*106 %*			*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*117 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0912	0.182	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0912	0.182	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0912	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR

Sample Information

Client Sample ID: **SB-8 (0'-2')** **York Sample ID:** **18H0563-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:20 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0912	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0912	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0912	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0912	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0912	0.182	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
83-32-9	Acenaphthene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
208-96-8	**Acenaphthylene**	**0.144**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
62-53-3	Aniline	ND		mg/kg dry	0.183	0.365	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
120-12-7	**Anthracene**	**0.174**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
92-87-5	Benzidine	ND		mg/kg dry	0.183	0.365	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
56-55-3	**Benzo(a)anthracene**	**1.00**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
50-32-8	**Benzo(a)pyrene**	**1.11**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
205-99-2	**Benzo(b)fluoranthene**	**0.876**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR

Sample Information

Client Sample ID: **SB-8 (0'-2')** **York Sample ID:** **18H0563-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:20 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	**Benzo(g,h,i)perylene**	**0.543**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
207-08-9	**Benzo(k)fluoranthene**	**0.918**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0912	0.182	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
86-74-8	Carbazole	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
218-01-9	**Chrysene**	**0.982**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
53-70-3	**Dibenzo(a,h)anthracene**	**0.215**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
206-44-0	**Fluoranthene**	**1.65**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
86-73-7	Fluorene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR

Sample Information

Client Sample ID: **SB-8 (0'-2')** **York Sample ID:** **18H0563-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:20 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.532**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
85-01-8	**Phenanthrene**	**0.351**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
108-95-2	Phenol	ND		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR
129-00-0	**Pyrene**	**1.56**		mg/kg dry	0.0457	0.0912	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/17/2018 03:18	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*62.0 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*64.8 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*80.0 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*66.0 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*69.8 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*80.5 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	**4,4'-DDD**	**0.0591**		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
72-55-9	**4,4'-DDE**	**0.0562**		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
50-29-3	**4,4'-DDT**	**0.179**		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB

Sample Information

Client Sample ID: **SB-8 (0'-2')** **York Sample ID:** **18H0563-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:20 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	**Aldrin**	**0.00376**		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
319-84-6	alpha-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/17/2018 13:53	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0360	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
60-57-1	Dieldrin	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/17/2018 13:53	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
72-20-8	Endrin	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/17/2018 13:53	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00180	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00901	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.0911	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 13:53	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*40.4 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*38.8 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB-8 (0'-2')** **York Sample ID:** **18H0563-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:20 pm	08/13/2018

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:41	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:41	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:41	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:41	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:41	LAB
11097-69-1	**Aroclor 1254**	**0.571**		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:41	LAB
11096-82-5	**Aroclor 1260**	**0.387**		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 19:41	LAB
1336-36-3	*** Total PCBs**	**0.958**		mg/kg dry	0.0182	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 19:41	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*46.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*35.8 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**11700**	B	mg/kg dry	5.48	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:49	KML
7440-36-0	**Antimony**	**1.84**		mg/kg dry	0.548	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:49	KML
7440-38-2	**Arsenic**	**6.07**		mg/kg dry	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:49	KML
7440-39-3	**Barium**	**166**		mg/kg dry	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:49	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.110	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:49	KML
7440-43-9	**Cadmium**	**0.710**		mg/kg dry	0.329	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:49	KML
7440-70-2	**Calcium**	**24000**		mg/kg dry	5.48	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:49	KML
7440-47-3	**Chromium**	**21.3**		mg/kg dry	0.548	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:49	KML
7440-48-4	**Cobalt**	**15.6**		mg/kg dry	0.548	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:49	KML
7440-50-8	**Copper**	**39.4**		mg/kg dry	0.548	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:49	KML

Sample Information

Client Sample ID: **SB-8 (0'-2')** **York Sample ID:** **18H0563-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:20 pm	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	**Iron**	**18400**		mg/kg dry	2.19	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:49	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**225**		mg/kg dry	0.548	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:49	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**7260**		mg/kg dry	5.48	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:49	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**834**		mg/kg dry	0.548	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:49	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**25.5**		mg/kg dry	0.548	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:49	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**2740**		mg/kg dry	5.48	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:49	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.10	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:49	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.548	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:49	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**268**	B	mg/kg dry	11.0	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:49	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.10	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:49	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**26.7**		mg/kg dry	1.10	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:49	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**554**		mg/kg dry	1.65	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:49	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**1.71**		mg/kg dry	0.0329	1	EPA 7473	08/20/2018 09:08	08/20/2018 14:34	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.2**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Sample Information

Client Sample ID: **SB-8 (17'-19')** **York Sample ID:** **18H0563-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:35 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/17/2018 11:18	08/17/2018 11:18	LL
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	08/17/2018 11:18	08/17/2018 11:18	LL
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.053	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
78-93-3	**2-Butanone**	**0.0039**	J	mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL

Sample Information

Client Sample ID: **SB-8 (17'-19')** **York Sample ID:** **18H0563-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:35 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.027**		mg/kg dry	0.0053	0.011	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-02-8	Acrolein	ND		mg/kg dry	0.0053	0.011	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C	08/17/2018 11:18	08/17/2018 11:18	LL
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **SB-8 (17'-19')** **York Sample ID:** **18H0563-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:35 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
75-09-2	Methylene chloride	ND		mg/kg dry	0.0053	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0053	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
127-18-4	**Tetrachloroethylene**	**0.012**		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH	08/17/2018 11:18	08/17/2018 11:18	LL
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 11:18	08/17/2018 11:18	LL
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0080	0.016	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/17/2018 11:18	08/17/2018 11:18	LL

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*92.3 %*	*77-125*

Sample Information

Client Sample ID: **SB-8 (17'-19')** **York Sample ID:** **18H0563-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:35 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*104 %*			*85-120*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*111 %*			*76-130*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0885	0.177	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0885	0.177	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0885	0.177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR

Sample Information

Client Sample ID: **SB-8 (17'-19')** **York Sample ID:** **18H0563-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:35 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0885	0.177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0885	0.177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0885	0.177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0885	0.177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0885	0.177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
83-32-9	**Acenaphthene**	**0.0481**	J	mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
98-86-2	Acetophenone	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
62-53-3	Aniline	ND		mg/kg dry	0.177	0.354	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
120-12-7	**Anthracene**	**0.166**		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
1912-24-9	Atrazine	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
92-87-5	Benzidine	ND		mg/kg dry	0.177	0.354	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
56-55-3	**Benzo(a)anthracene**	**0.395**		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
50-32-8	**Benzo(a)pyrene**	**0.377**		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
205-99-2	**Benzo(b)fluoranthene**	**0.291**		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR

Sample Information

Client Sample ID: **SB-8 (17'-19')** **York Sample ID:** **18H0563-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:35 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	**Benzo(g,h,i)perylene**	**0.189**		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
207-08-9	**Benzo(k)fluoranthene**	**0.310**		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
65-85-0	Benzoic acid	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.273**		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
105-60-2	Caprolactam	ND		mg/kg dry	0.0885	0.177	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
86-74-8	Carbazole	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
218-01-9	**Chrysene**	**0.413**		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
53-70-3	**Dibenzo(a,h)anthracene**	**0.0637**	J	mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
206-44-0	**Fluoranthene**	**0.726**		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
86-73-7	**Fluorene**	**0.0502**	J	mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR

Sample Information

Client Sample ID: **SB-8 (17'-19')** **York Sample ID:** **18H0563-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:35 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.160**		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
78-59-1	Isophorone	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
91-20-3	Naphthalene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
85-01-8	**Phenanthrene**	**0.675**		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
108-95-2	Phenol	ND		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR
129-00-0	**Pyrene**	**0.786**		mg/kg dry	0.0444	0.0885	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:39	08/16/2018 11:08	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*51.7 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*50.8 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*58.6 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*56.9 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*53.4 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*78.6 %*	*24-116*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
50-29-3	**4,4'-DDT**	**0.00248**		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
309-00-2	Aldrin	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB

Sample Information

Client Sample ID: **SB-8 (17'-19')** **York Sample ID:** **18H0563-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:35 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/17/2018 00:06	LAB
319-85-7	beta-BHC	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
57-74-9	Chlordane, total	ND		mg/kg dry	0.0349	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
319-86-8	delta-BHC	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
60-57-1	Dieldrin	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
959-98-8	Endosulfan I	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	08/15/2018 14:35	08/17/2018 00:06	LAB
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
72-20-8	**Endrin**	**0.00328**		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	08/15/2018 14:35	08/17/2018 00:06	LAB
76-44-8	Heptachlor	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00175	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
72-43-5	Methoxychlor	ND		mg/kg dry	0.00873	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB
8001-35-2	Toxaphene	ND		mg/kg dry	0.0884	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 14:35	08/17/2018 00:06	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*58.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*47.0 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

Sample Information

Client Sample ID: **SB-8 (17'-19')** **York Sample ID:** **18H0563-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:35 pm	08/13/2018

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 20:05	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 20:05	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 20:05	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 20:05	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 20:05	LAB
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 20:05	LAB
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	08/15/2018 14:35	08/16/2018 20:05	LAB
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications:	08/15/2018 14:35	08/16/2018 20:05	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*43.1 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*43.8 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**12200**	B	mg/kg dry	5.31	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:51	KML
7440-36-0	**Antimony**	**2.94**		mg/kg dry	0.531	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:51	KML
7440-38-2	**Arsenic**	**13.0**		mg/kg dry	1.06	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:51	KML
7440-39-3	**Barium**	**194**		mg/kg dry	1.06	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:51	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.106	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:51	KML
7440-43-9	**Cadmium**	**5.02**		mg/kg dry	0.318	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:51	KML
7440-70-2	**Calcium**	**35800**		mg/kg dry	5.31	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:51	KML
7440-47-3	**Chromium**	**27.8**		mg/kg dry	0.531	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:51	KML
7440-48-4	**Cobalt**	**13.6**		mg/kg dry	0.531	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 09:08	08/20/2018 13:51	KML

Sample Information

Client Sample ID: **SB-8 (17'-19')** **York Sample ID:** **18H0563-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0563	580 Gerard Ave	Soil	August 10, 2018 4:35 pm	08/13/2018

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**81.2**		mg/kg dry	0.531	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-89-6	**Iron**	**29000**		mg/kg dry	2.12	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	**Lead**	**273**		mg/kg dry	0.531	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-95-4	**Magnesium**	**7230**		mg/kg dry	5.31	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-96-5	**Manganese**	**393**		mg/kg dry	0.531	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**27.6**		mg/kg dry	0.531	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-09-7	**Potassium**	**4510**		mg/kg dry	5.31	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/kg dry	1.06	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/kg dry	0.531	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-23-5	**Sodium**	**435**	B	mg/kg dry	10.6	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP			
7440-28-0	Thallium	ND		mg/kg dry	1.06	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-62-2	**Vanadium**	**31.2**		mg/kg dry	1.06	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**2110**		mg/kg dry	1.59	1	EPA 6010C	08/15/2018 09:08	08/20/2018 13:51	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.780**		mg/kg dry	0.0318	1	EPA 7473	08/20/2018 09:08	08/20/2018 14:46	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**94.2**		%	0.100	1	SM 2540G	08/17/2018 10:26	08/17/2018 16:13	TAJ
							Certifications: CTDOH			

Analytical Batch Summary

Batch ID: BH80723 **Preparation Method:** EPA 3050B **Prepared By:** BML

YORK Sample ID	Client Sample ID	Preparation Date
18H0563-01	SB-1 (0'-2')	08/15/18
18H0563-02	SB-1 (21'-23')	08/15/18
18H0563-03	SB-2 (0'-2')	08/15/18
18H0563-04	SB-2 (21'-23')	08/15/18
18H0563-05	SB-3 (0'-2')	08/15/18
18H0563-06	SB-4 (0'-2')	08/15/18
18H0563-07	SB-4 (17'-19')	08/15/18
18H0563-08	SB-5 (0'-2')	08/15/18
BH80723-BLK1	Blank	08/15/18
BH80723-SRM1	Reference	08/15/18

Batch ID: BH80724 **Preparation Method:** EPA 3050B **Prepared By:** BML

YORK Sample ID	Client Sample ID	Preparation Date
18H0563-09	SB-5 (10'-12')	08/15/18
18H0563-10	SB-6 (0'-2')	08/15/18
18H0563-11	SB-6 (10'-12')	08/15/18
18H0563-12	SB-7 (0'-2')	08/15/18
18H0563-13	SB-7 (10'-12')	08/15/18
18H0563-14	SB-8 (0'-2')	08/15/18
18H0563-15	SB-8 (17'-19')	08/15/18
BH80724-BLK1	Blank	08/15/18
BH80724-SRM1	Reference	08/15/18

Batch ID: BH80762 **Preparation Method:** EPA 3550C **Prepared By:** MAT

YORK Sample ID	Client Sample ID	Preparation Date
18H0563-01	SB-1 (0'-2')	08/15/18
18H0563-01	SB-1 (0'-2')	08/15/18
18H0563-02	SB-1 (21'-23')	08/15/18
18H0563-02	SB-1 (21'-23')	08/15/18
18H0563-03	SB-2 (0'-2')	08/15/18
18H0563-03	SB-2 (0'-2')	08/15/18
18H0563-04	SB-2 (21'-23')	08/15/18
18H0563-04	SB-2 (21'-23')	08/15/18
18H0563-05	SB-3 (0'-2')	08/15/18
18H0563-05	SB-3 (0'-2')	08/15/18
18H0563-06	SB-4 (0'-2')	08/15/18
18H0563-06	SB-4 (0'-2')	08/15/18
18H0563-07	SB-4 (17'-19')	08/15/18
18H0563-07	SB-4 (17'-19')	08/15/18
18H0563-08	SB-5 (0'-2')	08/15/18
18H0563-08	SB-5 (0'-2')	08/15/18
18H0563-09	SB-5 (10'-12')	08/15/18
18H0563-09	SB-5 (10'-12')	08/15/18

18H0563-10	SB-6 (0'-2')	08/15/18
18H0563-10	SB-6 (0'-2')	08/15/18
18H0563-11	SB-6 (10'-12')	08/15/18
18H0563-11	SB-6 (10'-12')	08/15/18
18H0563-12	SB-7 (0'-2')	08/15/18
18H0563-12	SB-7 (0'-2')	08/15/18
18H0563-13	SB-7 (10'-12')	08/15/18
18H0563-13	SB-7 (10'-12')	08/15/18
18H0563-14	SB-8 (0'-2')	08/15/18
18H0563-14	SB-8 (0'-2')	08/15/18
18H0563-15	SB-8 (17'-19')	08/15/18
18H0563-15	SB-8 (17'-19')	08/15/18
BH80762-BLK1	Blank	08/15/18
BH80762-BLK2	Blank	08/15/18
BH80762-BS1	LCS	08/15/18
BH80762-BS2	LCS	08/15/18

Batch ID: BH80763 **Preparation Method:** EPA 3550C **Prepared By:** AB

YORK Sample ID	Client Sample ID	Preparation Date
18H0563-12	SB-7 (0'-2')	08/15/18
18H0563-12RE1	SB-7 (0'-2')	08/15/18
18H0563-13	SB-7 (10'-12')	08/15/18
18H0563-14	SB-8 (0'-2')	08/15/18
18H0563-15	SB-8 (17'-19')	08/15/18
BH80763-BLK1	Blank	08/15/18
BH80763-BS1	LCS	08/15/18
BH80763-MS1	Matrix Spike	08/15/18
BH80763-MSD1	Matrix Spike Dup	08/15/18

Batch ID: BH80799 **Preparation Method:** EPA 3550C **Prepared By:** SGM

YORK Sample ID	Client Sample ID	Preparation Date
18H0563-01	SB-1 (0'-2')	08/16/18
18H0563-02	SB-1 (21'-23')	08/16/18
18H0563-03	SB-2 (0'-2')	08/16/18
18H0563-04	SB-2 (21'-23')	08/16/18
18H0563-05	SB-3 (0'-2')	08/16/18
18H0563-06	SB-4 (0'-2')	08/16/18
18H0563-07	SB-4 (17'-19')	08/16/18
18H0563-08	SB-5 (0'-2')	08/16/18
18H0563-09	SB-5 (10'-12')	08/16/18
18H0563-10	SB-6 (0'-2')	08/16/18
18H0563-11	SB-6 (10'-12')	08/16/18
BH80799-BLK1	Blank	08/16/18
BH80799-BS1	LCS	08/16/18
BH80799-MS1	Matrix Spike	08/16/18
BH80799-MSD1	Matrix Spike Dup	08/16/18

Batch ID: BH80889 **Preparation Method:** % Solids Prep **Prepared By:** TAJ

YORK Sample ID	Client Sample ID	Preparation Date
18H0563-01	SB-1 (0'-2')	08/17/18
18H0563-02	SB-1 (21'-23')	08/17/18
18H0563-03	SB-2 (0'-2')	08/17/18
18H0563-04	SB-2 (21'-23')	08/17/18
18H0563-05	SB-3 (0'-2')	08/17/18
18H0563-06	SB-4 (0'-2')	08/17/18
18H0563-07	SB-4 (17'-19')	08/17/18
18H0563-08	SB-5 (0'-2')	08/17/18
18H0563-09	SB-5 (10'-12')	08/17/18
18H0563-10	SB-6 (0'-2')	08/17/18
18H0563-11	SB-6 (10'-12')	08/17/18
18H0563-12	SB-7 (0'-2')	08/17/18
18H0563-13	SB-7 (10'-12')	08/17/18
18H0563-14	SB-8 (0'-2')	08/17/18
18H0563-15	SB-8 (17'-19')	08/17/18

Batch ID: BH80900 **Preparation Method:** EPA 5035A **Prepared By:** LDS

YORK Sample ID	Client Sample ID	Preparation Date
18H0563-01	SB-1 (0'-2')	08/16/18
18H0563-02	SB-1 (21'-23')	08/16/18
18H0563-03	SB-2 (0'-2')	08/16/18
18H0563-04	SB-2 (21'-23')	08/16/18
18H0563-05	SB-3 (0'-2')	08/16/18
18H0563-06	SB-4 (0'-2')	08/16/18
18H0563-07	SB-4 (17'-19')	08/16/18
18H0563-08	SB-5 (0'-2')	08/16/18
18H0563-09	SB-5 (10'-12')	08/16/18
18H0563-10	SB-6 (0'-2')	08/16/18
18H0563-11	SB-6 (10'-12')	08/16/18
18H0563-12	SB-7 (0'-2')	08/16/18
18H0563-13	SB-7 (10'-12')	08/16/18
18H0563-14	SB-8 (0'-2')	08/16/18
BH80900-BLK1	Blank	08/16/18
BH80900-BS1	LCS	08/16/18
BH80900-BSD1	LCS Dup	08/16/18

Batch ID: BH80935 **Preparation Method:** EPA 7473 soil **Prepared By:** KML

YORK Sample ID	Client Sample ID	Preparation Date
18H0563-01	SB-1 (0'-2')	08/20/18
18H0563-02	SB-1 (21'-23')	08/20/18
18H0563-03	SB-2 (0'-2')	08/20/18
18H0563-04	SB-2 (21'-23')	08/20/18
18H0563-05	SB-3 (0'-2')	08/20/18
18H0563-06	SB-4 (0'-2')	08/20/18
18H0563-07	SB-4 (17'-19')	08/20/18
18H0563-08	SB-5 (0'-2')	08/20/18
18H0563-09	SB-5 (10'-12')	08/20/18
18H0563-10	SB-6 (0'-2')	08/20/18

18H0563-11	SB-6 (10'-12')	08/20/18
18H0563-12	SB-7 (0'-2')	08/20/18
18H0563-13	SB-7 (10'-12')	08/20/18
18H0563-14	SB-8 (0'-2')	08/20/18
18H0563-15	SB-8 (17'-19')	08/20/18
BH80935-BLK1	Blank	08/20/18
BH80935-SRM1	Reference	08/20/18

Batch ID: BH80979 **Preparation Method:** EPA 5035A **Prepared By:** LDS

YORK Sample ID	Client Sample ID	Preparation Date
18H0563-15	SB-8 (17'-19')	08/17/18
BH80979-BLK1	Blank	08/17/18
BH80979-BS1	LCS	08/17/18
BH80979-BSD1	LCS Dup	08/17/18

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80900 - EPA 5035A											
Blank (BH80900-BLK1)								Prepared & Analyzed: 08/16/2018			
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80900 - EPA 5035A											
Blank (BH80900-BLK1)								Prepared & Analyzed: 08/16/2018			
n-Butylbenzene	ND	0.0050	mg/kg wet								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
trans-1,4-dichloro-2-butene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: 1,2-Dichloroethane-d4	*41.2*		*ug/L*	*50.0*		*82.5*	*77-125*				
Surrogate: Toluene-d8	*48.9*		*"*	*50.0*		*97.8*	*85-120*				
Surrogate: p-Bromofluorobenzene	*52.5*		*"*	*50.0*		*105*	*76-130*				
LCS (BH80900-BS1)								Prepared & Analyzed: 08/16/2018			
1,1,1,2-Tetrachloroethane	52		ug/L	50.0		105	75-129				
1,1,1-Trichloroethane	45		"	50.0		90.4	71-137				
1,1,2,2-Tetrachloroethane	57		"	50.0		115	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	42		"	50.0		84.7	58-146				
1,1,2-Trichloroethane	50		"	50.0		101	83-123				
1,1-Dichloroethane	45		"	50.0		90.3	75-130				
1,1-Dichloroethylene	41		"	50.0		82.3	64-137				
1,2,3-Trichlorobenzene	57		"	50.0		113	81-140				
1,2,3-Trichloropropane	56		"	50.0		112	81-126				
1,2,4-Trichlorobenzene	57		"	50.0		115	80-141				
1,2,4-Trimethylbenzene	55		"	50.0		110	84-125				
1,2-Dibromo-3-chloropropane	58		"	50.0		117	74-142				
1,2-Dibromoethane	53		"	50.0		105	86-123				
1,2-Dichlorobenzene	53		"	50.0		106	85-122				
1,2-Dichloroethane	41		"	50.0		81.4	71-133				
1,2-Dichloropropane	50		"	50.0		100	81-122				
1,3,5-Trimethylbenzene	54		"	50.0		108	82-126				
1,3-Dichlorobenzene	54		"	50.0		108	84-124				
1,4-Dichlorobenzene	55		"	50.0		109	84-124				
1,4-Dioxane	370		"	1050		35.6	10-228				
2-Butanone	48		"	50.0		95.6	58-147				
2-Hexanone	50		"	50.0		99.3	70-139				
4-Methyl-2-pentanone	36		"	50.0		72.4	72-132				
Acetone	32		"	50.0		63.6	36-155				
Acrolein	30		"	50.0		59.4	10-238				
Acrylonitrile	45		"	50.0		89.3	66-141				
Benzene	47		"	50.0		93.6	77-127				
Bromochloromethane	46		"	50.0		91.6	74-129				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80900 - EPA 5035A											
LCS (BH80900-BS1)							Prepared & Analyzed: 08/16/2018				
Bromodichloromethane	50		ug/L	50.0		99.6	81-124				
Bromoform	58		"	50.0		116	80-136				
Bromomethane	23		"	50.0		45.2	32-177				
Carbon disulfide	43		"	50.0		85.1	10-136				
Carbon tetrachloride	46		"	50.0		92.4	66-143				
Chlorobenzene	50		"	50.0		100	86-120				
Chloroethane	23		"	50.0		46.8	51-142	Low Bias			
Chloroform	45		"	50.0		90.6	76-131				
Chloromethane	27		"	50.0		53.1	49-132				
cis-1,2-Dichloroethylene	45		"	50.0		90.7	74-132				
cis-1,3-Dichloropropylene	52		"	50.0		104	81-129				
Cyclohexane	40		"	50.0		79.8	70-130				
Dibromochloromethane	51		"	50.0		102	10-200				
Dibromomethane	48		"	50.0		95.7	83-124				
Dichlorodifluoromethane	54		"	50.0		108	28-158				
Ethyl Benzene	50		"	50.0		100	84-125				
Hexachlorobutadiene	56		"	50.0		111	83-133				
Isopropylbenzene	54		"	50.0		109	81-127				
Methyl acetate	40		"	50.0		80.6	41-143				
Methyl tert-butyl ether (MTBE)	43		"	50.0		86.8	74-131				
Methylcyclohexane	50		"	50.0		100	70-130				
Methylene chloride	42		"	50.0		84.2	57-141				
n-Butylbenzene	52		"	50.0		105	80-130				
n-Propylbenzene	55		"	50.0		109	74-136				
o-Xylene	49		"	50.0		97.6	83-123				
p- & m- Xylenes	94		"	100		93.6	82-128				
p-Isopropyltoluene	55		"	50.0		110	85-125				
sec-Butylbenzene	57		"	50.0		114	83-125				
Styrene	48		"	50.0		96.8	86-126				
tert-Butyl alcohol (TBA)	190		"	250		77.3	70-130				
tert-Butylbenzene	49		"	50.0		98.6	80-127				
Tetrachloroethylene	39		"	50.0		78.0	80-129	Low Bias			
Toluene	49		"	50.0		97.6	85-121				
trans-1,2-Dichloroethylene	43		"	50.0		86.0	72-132				
trans-1,3-Dichloropropylene	51		"	50.0		101	78-132				
trans-1,4-dichloro-2-butene	57		"	50.0		115	75-135				
Trichloroethylene	51		"	50.0		103	84-123				
Trichlorofluoromethane	24		"	50.0		48.1	62-140	Low Bias			
Vinyl Chloride	25		"	50.0		49.9	52-130	Low Bias			
Surrogate: 1,2-Dichloroethane-d4	*42.8*		*"*	*50.0*		*85.7*	*77-125*				
Surrogate: Toluene-d8	*48.9*		*"*	*50.0*		*97.7*	*85-120*				
Surrogate: p-Bromofluorobenzene	*55.5*		*"*	*50.0*		*111*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80900 - EPA 5035A											
LCS Dup (BH80900-BSD1)								Prepared & Analyzed: 08/16/2018			
1,1,1,2-Tetrachloroethane	50		ug/L	50.0		100	75-129		4.46	30	
1,1,1-Trichloroethane	44		"	50.0		87.4	71-137		3.37	30	
1,1,2,2-Tetrachloroethane	55		"	50.0		109	79-129		5.11	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	39		"	50.0		77.1	58-146		9.40	30	
1,1,2-Trichloroethane	49		"	50.0		97.9	83-123		3.06	30	
1,1-Dichloroethane	43		"	50.0		85.8	75-130		5.02	30	
1,1-Dichloroethylene	38		"	50.0		76.1	64-137		7.83	30	
1,2,3-Trichlorobenzene	53		"	50.0		107	81-140		6.07	30	
1,2,3-Trichloropropane	54		"	50.0		108	81-126		4.18	30	
1,2,4-Trichlorobenzene	53		"	50.0		106	80-141		8.30	30	
1,2,4-Trimethylbenzene	51		"	50.0		102	84-125		7.43	30	
1,2-Dibromo-3-chloropropane	57		"	50.0		114	74-142		2.20	30	
1,2-Dibromoethane	51		"	50.0		102	86-123		2.96	30	
1,2-Dichlorobenzene	50		"	50.0		99.2	85-122		6.55	30	
1,2-Dichloroethane	41		"	50.0		81.4	71-133		0.0737	30	
1,2-Dichloropropane	47		"	50.0		93.8	81-122		6.54	30	
1,3,5-Trimethylbenzene	50		"	50.0		101	82-126		6.59	30	
1,3-Dichlorobenzene	51		"	50.0		102	84-124		5.42	30	
1,4-Dichlorobenzene	52		"	50.0		104	84-124		5.27	30	
1,4-Dioxane	360		"	1050		33.8	10-228		5.23	30	
2-Butanone	48		"	50.0		95.7	58-147		0.146	30	
2-Hexanone	50		"	50.0		100	70-139		0.883	30	
4-Methyl-2-pentanone	36		"	50.0		71.4	72-132	Low Bias	1.34	30	
Acetone	34		"	50.0		68.8	36-155		7.79	30	
Acrolein	28		"	50.0		56.1	10-238		5.82	30	
Acrylonitrile	45		"	50.0		89.6	66-141		0.380	30	
Benzene	45		"	50.0		90.3	77-127		3.57	30	
Bromochloromethane	44		"	50.0		88.1	74-129		3.96	30	
Bromodichloromethane	48		"	50.0		95.1	81-124		4.58	30	
Bromoform	55		"	50.0		110	80-136		4.89	30	
Bromomethane	24		"	50.0		47.8	32-177		5.42	30	
Carbon disulfide	41		"	50.0		81.8	10-136		3.95	30	
Carbon tetrachloride	44		"	50.0		87.2	66-143		5.79	30	
Chlorobenzene	48		"	50.0		96.3	86-120		3.99	30	
Chloroethane	23		"	50.0		45.5	51-142	Low Bias	2.78	30	
Chloroform	44		"	50.0		88.2	76-131		2.71	30	
Chloromethane	26		"	50.0		51.8	49-132		2.40	30	
cis-1,2-Dichloroethylene	44		"	50.0		87.9	74-132		3.16	30	
cis-1,3-Dichloropropylene	50		"	50.0		100	81-129		3.65	30	
Cyclohexane	38		"	50.0		76.2	70-130		4.64	30	
Dibromochloromethane	50		"	50.0		100	10-200		1.70	30	
Dibromomethane	46		"	50.0		91.6	83-124		4.36	30	
Dichlorodifluoromethane	51		"	50.0		102	28-158		5.13	30	
Ethyl Benzene	48		"	50.0		95.9	84-125		4.53	30	
Hexachlorobutadiene	50		"	50.0		101	83-133		9.86	30	
Isopropylbenzene	51		"	50.0		102	81-127		6.30	30	
Methyl acetate	42		"	50.0		83.0	41-143		2.96	30	
Methyl tert-butyl ether (MTBE)	42		"	50.0		84.8	74-131		2.31	30	
Methylcyclohexane	48		"	50.0		95.1	70-130		5.36	30	
Methylene chloride	41		"	50.0		82.9	57-141		1.56	30	
n-Butylbenzene	49		"	50.0		97.4	80-130		7.47	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80900 - EPA 5035A											
LCS Dup (BH80900-BSD1)								Prepared & Analyzed: 08/16/2018			
n-Propylbenzene	51		ug/L	50.0		101	74-136		7.47	30	
o-Xylene	47		"	50.0		94.0	83-123		3.76	30	
p- & m- Xylenes	91		"	100		90.7	82-128		3.16	30	
p-Isopropyltoluene	51		"	50.0		103	85-125		7.02	30	
sec-Butylbenzene	54		"	50.0		107	83-125		6.04	30	
Styrene	47		"	50.0		93.9	86-126		3.04	30	
tert-Butyl alcohol (TBA)	200		"	250		79.9	70-130		3.33	30	
tert-Butylbenzene	45		"	50.0		90.5	80-127		8.59	30	
Tetrachloroethylene	36		"	50.0		72.8	80-129	Low Bias	6.90	30	
Toluene	47		"	50.0		93.5	85-121		4.29	30	
trans-1,2-Dichloroethylene	41		"	50.0		81.8	72-132		5.03	30	
trans-1,3-Dichloropropylene	49		"	50.0		98.2	78-132		3.22	30	
trans-1,4-dichloro-2-butene	55		"	50.0		110	75-135		4.10	30	
Trichloroethylene	48		"	50.0		96.8	84-123		6.05	30	
Trichlorofluoromethane	23		"	50.0		46.3	62-140	Low Bias	3.82	30	
Vinyl Chloride	24		"	50.0		48.7	52-130	Low Bias	2.39	30	
Surrogate: 1,2-Dichloroethane-d4	*42.8*		*"*	*50.0*		*85.5*	*77-125*				
Surrogate: Toluene-d8	*48.8*		*"*	*50.0*		*97.5*	*85-120*				
Surrogate: p-Bromofluorobenzene	*53.6*		*"*	*50.0*		*107*	*76-130*				
Batch BH80979 - EPA 5035A											
Blank (BH80979-BLK1)								Prepared & Analyzed: 08/17/2018			
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80979 - EPA 5035A											
Blank (BH80979-BLK1)								Prepared & Analyzed: 08/17/2018			
Bromodichloromethane	ND	0.0050	mg/kg wet								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
trans-1,4-dichloro-2-butene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: 1,2-Dichloroethane-d4	*43.9*		*ug/L*	*50.0*		*87.8*	*77-125*				
Surrogate: Toluene-d8	*49.2*		*"*	*50.0*		*98.4*	*85-120*				
Surrogate: p-Bromofluorobenzene	*51.8*		*"*	*50.0*		*104*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80979 - EPA 5035A											
LCS (BH80979-BS1)							Prepared & Analyzed: 08/17/2018				
1,1,1,2-Tetrachloroethane	55		ug/L	50.0		109	75-129				
1,1,1-Trichloroethane	50		"	50.0		99.3	71-137				
1,1,2,2-Tetrachloroethane	58		"	50.0		117	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	47		"	50.0		93.4	58-146				
1,1,2-Trichloroethane	53		"	50.0		107	83-123				
1,1-Dichloroethane	51		"	50.0		101	75-130				
1,1-Dichloroethylene	46		"	50.0		91.7	64-137				
1,2,3-Trichlorobenzene	59		"	50.0		117	81-140				
1,2,3-Trichloropropane	58		"	50.0		116	81-126				
1,2,4-Trichlorobenzene	57		"	50.0		114	80-141				
1,2,4-Trimethylbenzene	55		"	50.0		111	84-125				
1,2-Dibromo-3-chloropropane	61		"	50.0		121	74-142				
1,2-Dibromoethane	55		"	50.0		109	86-123				
1,2-Dichlorobenzene	54		"	50.0		107	85-122				
1,2-Dichloroethane	46		"	50.0		92.4	71-133				
1,2-Dichloropropane	53		"	50.0		106	81-122				
1,3,5-Trimethylbenzene	54		"	50.0		107	82-126				
1,3-Dichlorobenzene	54		"	50.0		108	84-124				
1,4-Dichlorobenzene	55		"	50.0		111	84-124				
1,4-Dioxane	400		"	1050		38.2	10-228				
2-Butanone	56		"	50.0		113	58-147				
2-Hexanone	53		"	50.0		107	70-139				
4-Methyl-2-pentanone	38		"	50.0		76.4	72-132				
Acetone	42		"	50.0		84.7	36-155				
Acrolein	32		"	50.0		63.1	10-238				
Acrylonitrile	56		"	50.0		112	66-141				
Benzene	51		"	50.0		102	77-127				
Bromochloromethane	52		"	50.0		104	74-129				
Bromodichloromethane	53		"	50.0		105	81-124				
Bromoform	62		"	50.0		123	80-136				
Bromomethane	25		"	50.0		50.7	32-177				
Carbon disulfide	48		"	50.0		96.6	10-136				
Carbon tetrachloride	49		"	50.0		98.8	66-143				
Chlorobenzene	51		"	50.0		103	86-120				
Chloroethane	27		"	50.0		53.4	51-142				
Chloroform	51		"	50.0		102	76-131				
Chloromethane	30		"	50.0		60.5	49-132				
cis-1,2-Dichloroethylene	51		"	50.0		103	74-132				
cis-1,3-Dichloropropylene	53		"	50.0		105	81-129				
Cyclohexane	44		"	50.0		87.7	70-130				
Dibromochloromethane	54		"	50.0		109	10-200				
Dibromomethane	52		"	50.0		104	83-124				
Dichlorodifluoromethane	57		"	50.0		114	28-158				
Ethyl Benzene	51		"	50.0		103	84-125				
Hexachlorobutadiene	56		"	50.0		112	83-133				
Isopropylbenzene	54		"	50.0		109	81-127				
Methyl acetate	53		"	50.0		105	41-143				
Methyl tert-butyl ether (MTBE)	50		"	50.0		99.1	74-131				
Methylcyclohexane	52		"	50.0		104	70-130				
Methylene chloride	49		"	50.0		97.6	57-141				
n-Butylbenzene	52		"	50.0		103	80-130				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80979 - EPA 5035A											
LCS (BH80979-BS1)								Prepared & Analyzed: 08/17/2018			
n-Propylbenzene	54		ug/L	50.0		108	74-136				
o-Xylene	51		"	50.0		101	83-123				
p- & m- Xylenes	97		"	100		96.9	82-128				
p-Isopropyltoluene	55		"	50.0		109	85-125				
sec-Butylbenzene	58		"	50.0		116	83-125				
Styrene	50		"	50.0		101	86-126				
tert-Butyl alcohol (TBA)	240		"	250		95.0	70-130				
tert-Butylbenzene	50		"	50.0		99.5	80-127				
Tetrachloroethylene	39		"	50.0		77.6	80-129	Low Bias			
Toluene	51		"	50.0		102	85-121				
trans-1,2-Dichloroethylene	48		"	50.0		95.9	72-132				
trans-1,3-Dichloropropylene	51		"	50.0		102	78-132				
trans-1,4-dichloro-2-butene	56		"	50.0		111	75-135				
Trichloroethylene	53		"	50.0		107	84-123				
Trichlorofluoromethane	26		"	50.0		51.9	62-140	Low Bias			
Vinyl Chloride	30		"	50.0		59.1	52-130				
Surrogate: 1,2-Dichloroethane-d4	*43.9*		*"*	*50.0*		*87.8*	*77-125*				
Surrogate: Toluene-d8	*48.6*		*"*	*50.0*		*97.3*	*85-120*				
Surrogate: p-Bromofluorobenzene	*52.6*		*"*	*50.0*		*105*	*76-130*				
LCS Dup (BH80979-BSD1)								Prepared & Analyzed: 08/17/2018			
1,1,1,2-Tetrachloroethane	54		ug/L	50.0		108	75-129		1.66	30	
1,1,1-Trichloroethane	49		"	50.0		97.8	71-137		1.46	30	
1,1,2,2-Tetrachloroethane	59		"	50.0		117	79-129		0.274	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	45		"	50.0		90.9	58-146		2.65	30	
1,1,2-Trichloroethane	52		"	50.0		104	83-123		3.19	30	
1,1-Dichloroethane	49		"	50.0		98.0	75-130		3.03	30	
1,1-Dichloroethylene	44		"	50.0		88.6	64-137		3.44	30	
1,2,3-Trichlorobenzene	55		"	50.0		110	81-140		6.20	30	
1,2,3-Trichloropropane	58		"	50.0		117	81-126		0.946	30	
1,2,4-Trichlorobenzene	52		"	50.0		103	80-141		9.45	30	
1,2,4-Trimethylbenzene	54		"	50.0		108	84-125		2.34	30	
1,2-Dibromo-3-chloropropane	57		"	50.0		114	74-142		6.18	30	
1,2-Dibromoethane	53		"	50.0		107	86-123		1.98	30	
1,2-Dichlorobenzene	52		"	50.0		104	85-122		2.89	30	
1,2-Dichloroethane	44		"	50.0		88.7	71-133		4.11	30	
1,2-Dichloropropane	52		"	50.0		104	81-122		1.03	30	
1,3,5-Trimethylbenzene	53		"	50.0		105	82-126		2.15	30	
1,3-Dichlorobenzene	53		"	50.0		105	84-124		2.87	30	
1,4-Dichlorobenzene	53		"	50.0		106	84-124		4.77	30	
1,4-Dioxane	360		"	1050		33.8	10-228		12.1	30	
2-Butanone	54		"	50.0		108	58-147		4.17	30	
2-Hexanone	51		"	50.0		102	70-139		4.84	30	
4-Methyl-2-pentanone	37		"	50.0		73.3	72-132		4.11	30	
Acetone	43		"	50.0		86.4	36-155		2.01	30	
Acrolein	27		"	50.0		54.8	10-238		14.1	30	
Acrylonitrile	50		"	50.0		99.8	66-141		11.9	30	
Benzene	50		"	50.0		100	77-127		1.92	30	
Bromochloromethane	50		"	50.0		101	74-129		2.68	30	
Bromodichloromethane	52		"	50.0		104	81-124		0.934	30	
Bromoform	59		"	50.0		118	80-136		4.24	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80979 - EPA 5035A											
LCS Dup (BH80979-BSD1)								Prepared & Analyzed: 08/17/2018			
Bromomethane	23		ug/L	50.0		46.5	32-177		8.68	30	
Carbon disulfide	48		"	50.0		95.1	10-136		1.56	30	
Carbon tetrachloride	49		"	50.0		97.1	66-143		1.74	30	
Chlorobenzene	50		"	50.0		101	86-120		1.89	30	
Chloroethane	27		"	50.0		54.8	51-142		2.48	30	
Chloroform	49		"	50.0		97.1	76-131		4.67	30	
Chloromethane	30		"	50.0		59.4	49-132		1.94	30	
cis-1,2-Dichloroethylene	50		"	50.0		101	74-132		2.24	30	
cis-1,3-Dichloropropylene	51		"	50.0		102	81-129		2.82	30	
Cyclohexane	43		"	50.0		85.7	70-130		2.28	30	
Dibromochloromethane	53		"	50.0		107	10-200		1.69	30	
Dibromomethane	51		"	50.0		102	83-124		1.05	30	
Dichlorodifluoromethane	56		"	50.0		112	28-158		2.00	30	
Ethyl Benzene	51		"	50.0		102	84-125		0.156	30	
Hexachlorobutadiene	56		"	50.0		112	83-133		0.161	30	
Isopropylbenzene	55		"	50.0		109	81-127		0.110	30	
Methyl acetate	49		"	50.0		98.4	41-143		6.63	30	
Methyl tert-butyl ether (MTBE)	47		"	50.0		94.7	74-131		4.50	30	
Methylcyclohexane	52		"	50.0		104	70-130		0.0959	30	
Methylene chloride	49		"	50.0		98.8	57-141		1.20	30	
n-Butylbenzene	50		"	50.0		99.6	80-130		3.69	30	
n-Propylbenzene	54		"	50.0		107	74-136		1.02	30	
o-Xylene	50		"	50.0		99.6	83-123		1.53	30	
p- & m- Xylenes	96		"	100		96.0	82-128		0.943	30	
p-Isopropyltoluene	54		"	50.0		108	85-125		0.900	30	
sec-Butylbenzene	58		"	50.0		115	83-125		0.778	30	
Styrene	49		"	50.0		98.7	86-126		1.97	30	
tert-Butyl alcohol (TBA)	230		"	250		92.2	70-130		3.07	30	
tert-Butylbenzene	50		"	50.0		100	80-127		0.481	30	
Tetrachloroethylene	38		"	50.0		76.7	80-129	Low Bias	1.22	30	
Toluene	51		"	50.0		101	85-121		0.551	30	
trans-1,2-Dichloroethylene	47		"	50.0		93.6	72-132		2.36	30	
trans-1,3-Dichloropropylene	50		"	50.0		101	78-132		1.67	30	
trans-1,4-dichloro-2-butene	55		"	50.0		109	75-135		1.89	30	
Trichloroethylene	54		"	50.0		108	84-123		0.616	30	
Trichlorofluoromethane	26		"	50.0		51.2	62-140	Low Bias	1.32	30	
Vinyl Chloride	29		"	50.0		57.4	52-130		2.88	30	
Surrogate: 1,2-Dichloroethane-d4	*42.9*		*"*	*50.0*		*85.8*	*77-125*				
Surrogate: Toluene-d8	*49.1*		*"*	*50.0*		*98.1*	*85-120*				
Surrogate: p-Bromofluorobenzene	*53.8*		*"*	*50.0*		*108*	*76-130*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80763 - EPA 3550C											
Blank (BH80763-BLK1)									Prepared: 08/15/2018 Analyzed: 08/16/2018		
1,1-Biphenyl	ND	0.0417	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0833	"								
1,2,4-Trichlorobenzene	ND	0.0417	"								
1,2-Dichlorobenzene	ND	0.0417	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0417	"								
1,3-Dichlorobenzene	ND	0.0417	"								
1,4-Dichlorobenzene	ND	0.0417	"								
2,3,4,6-Tetrachlorophenol	ND	0.0833	"								
2,4,5-Trichlorophenol	ND	0.0417	"								
2,4,6-Trichlorophenol	ND	0.0417	"								
2,4-Dichlorophenol	ND	0.0417	"								
2,4-Dimethylphenol	ND	0.0417	"								
2,4-Dinitrophenol	ND	0.0833	"								
2,4-Dinitrotoluene	ND	0.0417	"								
2,6-Dinitrotoluene	ND	0.0417	"								
2-Chloronaphthalene	ND	0.0417	"								
2-Chlorophenol	ND	0.0417	"								
2-Methylnaphthalene	ND	0.0417	"								
2-Methylphenol	ND	0.0417	"								
2-Nitroaniline	ND	0.0833	"								
2-Nitrophenol	ND	0.0417	"								
3- & 4-Methylphenols	ND	0.0417	"								
3,3-Dichlorobenzidine	ND	0.0417	"								
3-Nitroaniline	ND	0.0833	"								
4,6-Dinitro-2-methylphenol	ND	0.0833	"								
4-Bromophenyl phenyl ether	ND	0.0417	"								
4-Chloro-3-methylphenol	ND	0.0417	"								
4-Chloroaniline	ND	0.0417	"								
4-Chlorophenyl phenyl ether	ND	0.0417	"								
4-Nitroaniline	ND	0.0833	"								
4-Nitrophenol	ND	0.0833	"								
Acenaphthene	ND	0.0417	"								
Acenaphthylene	ND	0.0417	"								
Acetophenone	ND	0.0417	"								
Aniline	ND	0.167	"								
Anthracene	ND	0.0417	"								
Atrazine	ND	0.0417	"								
Benzaldehyde	ND	0.0417	"								
Benzidine	ND	0.167	"								
Benzo(a)anthracene	ND	0.0417	"								
Benzo(a)pyrene	ND	0.0417	"								
Benzo(b)fluoranthene	ND	0.0417	"								
Benzo(g,h,i)perylene	ND	0.0417	"								
Benzo(k)fluoranthene	ND	0.0417	"								
Benzoic acid	ND	0.0417	"								
Benzyl alcohol	ND	0.0417	"								
Benzyl butyl phthalate	ND	0.0417	"								
Bis(2-chloroethoxy)methane	ND	0.0417	"								
Bis(2-chloroethyl)ether	ND	0.0417	"								
Bis(2-chloroisopropyl)ether	ND	0.0417	"								
Bis(2-ethylhexyl)phthalate	ND	0.0417	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80763 - EPA 3550C											
Blank (BH80763-BLK1)								Prepared: 08/15/2018 Analyzed: 08/16/2018			
Caprolactam	ND	0.0833	mg/kg wet								
Carbazole	ND	0.0417	"								
Chrysene	ND	0.0417	"								
Dibenzo(a,h)anthracene	ND	0.0417	"								
Dibenzofuran	ND	0.0417	"								
Diethyl phthalate	ND	0.0417	"								
Dimethyl phthalate	ND	0.0417	"								
Di-n-butyl phthalate	ND	0.0417	"								
Di-n-octyl phthalate	ND	0.0417	"								
Fluoranthene	ND	0.0417	"								
Fluorene	ND	0.0417	"								
Hexachlorobenzene	ND	0.0417	"								
Hexachlorobutadiene	ND	0.0417	"								
Hexachlorocyclopentadiene	ND	0.0417	"								
Hexachloroethane	ND	0.0417	"								
Indeno(1,2,3-cd)pyrene	ND	0.0417	"								
Isophorone	ND	0.0417	"								
Naphthalene	ND	0.0417	"								
Nitrobenzene	ND	0.0417	"								
N-Nitrosodimethylamine	ND	0.0417	"								
N-nitroso-di-n-propylamine	ND	0.0417	"								
N-Nitrosodiphenylamine	ND	0.0417	"								
Pentachlorophenol	ND	0.0417	"								
Phenanthrene	ND	0.0417	"								
Phenol	ND	0.0417	"								
Pyrene	ND	0.0417	"								
Surrogate: 2-Fluorophenol	*1.46*		*"*	*1.67*		*87.4*	*20-108*				
Surrogate: Phenol-d5	*1.35*		*"*	*1.67*		*81.2*	*23-114*				
Surrogate: Nitrobenzene-d5	*0.725*		*"*	*0.833*		*87.0*	*22-108*				
Surrogate: 2-Fluorobiphenyl	*0.636*		*"*	*0.833*		*76.3*	*21-113*				
Surrogate: 2,4,6-Tribromophenol	*1.16*		*"*	*1.67*		*69.6*	*19-110*				
Surrogate: Terphenyl-d14	*0.708*		*"*	*0.833*		*85.0*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80763 - EPA 3550C											
LCS (BH80763-BS1)								Prepared: 08/15/2018 Analyzed: 08/16/2018			
1,1-Biphenyl	0.664	0.0417	mg/kg wet	0.833		79.7	22-103				
1,2,4,5-Tetrachlorobenzene	0.714	0.0833	"	0.833		85.6	10-144				
1,2,4-Trichlorobenzene	0.572	0.0417	"	0.833		68.7	23-130				
1,2-Dichlorobenzene	0.579	0.0417	"	0.833		69.4	26-113				
1,2-Diphenylhydrazine (as Azobenzene)	0.749	0.0417	"	0.833		89.9	10-140				
1,3-Dichlorobenzene	0.590	0.0417	"	0.833		70.8	32-113				
1,4-Dichlorobenzene	0.597	0.0417	"	0.833		71.7	28-111				
2,3,4,6-Tetrachlorophenol	1.57	0.0833	"	0.833		189	30-130	High Bias			
2,4,5-Trichlorophenol	0.583	0.0417	"	0.833		70.0	14-138				
2,4,6-Trichlorophenol	0.572	0.0417	"	0.833		68.6	27-122				
2,4-Dichlorophenol	0.620	0.0417	"	0.833		74.4	23-133				
2,4-Dimethylphenol	0.678	0.0417	"	0.833		81.4	15-131				
2,4-Dinitrophenol	0.588	0.0833	"	0.833		70.5	10-149				
2,4-Dinitrotoluene	0.609	0.0417	"	0.833		73.0	30-123				
2,6-Dinitrotoluene	0.567	0.0417	"	0.833		68.0	30-125				
2-Chloronaphthalene	0.598	0.0417	"	0.833		71.7	22-115				
2-Chlorophenol	0.633	0.0417	"	0.833		76.0	25-121				
2-Methylnaphthalene	0.630	0.0417	"	0.833		75.6	16-127				
2-Methylphenol	0.565	0.0417	"	0.833		67.8	10-146				
2-Nitroaniline	0.594	0.0833	"	0.833		71.3	24-126				
2-Nitrophenol	0.587	0.0417	"	0.833		70.4	17-129				
3- & 4-Methylphenols	0.555	0.0417	"	0.833		66.6	20-109				
3,3-Dichlorobenzidine	0.402	0.0417	"	0.833		48.2	10-147				
3-Nitroaniline	0.538	0.0833	"	0.833		64.5	23-123				
4,6-Dinitro-2-methylphenol	0.595	0.0833	"	0.833		71.4	10-149				
4-Bromophenyl phenyl ether	0.629	0.0417	"	0.833		75.4	30-138				
4-Chloro-3-methylphenol	0.652	0.0417	"	0.833		78.3	16-138				
4-Chloroaniline	0.467	0.0417	"	0.833		56.1	10-117				
4-Chlorophenyl phenyl ether	0.599	0.0417	"	0.833		71.9	18-132				
4-Nitroaniline	0.581	0.0833	"	0.833		69.7	14-125				
4-Nitrophenol	0.661	0.0833	"	0.833		79.3	10-136				
Acenaphthene	0.597	0.0417	"	0.833		71.6	17-124				
Acenaphthylene	0.615	0.0417	"	0.833		73.8	16-124				
Acetophenone	0.651	0.0417	"	0.833		78.2	28-105				
Aniline	0.435	0.167	"	0.833		52.2	10-111				
Anthracene	0.640	0.0417	"	0.833		76.8	24-124				
Atrazine	0.662	0.0417	"	0.833		79.4	22-120				
Benzaldehyde	0.681	0.0417	"	0.833		81.7	21-100				
Benzo(a)anthracene	0.641	0.0417	"	0.833		77.0	25-134				
Benzo(a)pyrene	0.733	0.0417	"	0.833		88.0	29-144				
Benzo(b)fluoranthene	0.674	0.0417	"	0.833		80.9	20-151				
Benzo(g,h,i)perylene	0.650	0.0417	"	0.833		78.0	10-153				
Benzo(k)fluoranthene	0.693	0.0417	"	0.833		83.2	10-148				
Benzoic acid	0.203	0.0417	"	0.842		24.1	10-116				
Benzyl alcohol	0.719	0.0417	"	0.833		86.2	17-128				
Benzyl butyl phthalate	0.676	0.0417	"	0.833		81.1	10-132				
Bis(2-chloroethoxy)methane	0.586	0.0417	"	0.833		70.3	10-129				
Bis(2-chloroethyl)ether	0.657	0.0417	"	0.833		78.8	14-125				
Bis(2-chloroisopropyl)ether	0.844	0.0417	"	0.833		101	14-122				
Bis(2-ethylhexyl)phthalate	0.705	0.0417	"	0.833		84.6	10-141				
Caprolactam	0.620	0.0833	"	0.833		74.4	10-123				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80763 - EPA 3550C											
LCS (BH80763-BS1)								Prepared: 08/15/2018 Analyzed: 08/16/2018			
Carbazole	0.613	0.0417	mg/kg wet	0.833		73.6	31-120				
Chrysene	0.658	0.0417	"	0.833		79.0	24-116				
Dibenzo(a,h)anthracene	0.644	0.0417	"	0.833		77.3	17-147				
Dibenzofuran	0.606	0.0417	"	0.833		72.7	23-123				
Diethyl phthalate	0.617	0.0417	"	0.833		74.0	23-122				
Dimethyl phthalate	0.632	0.0417	"	0.833		75.8	28-127				
Di-n-butyl phthalate	0.623	0.0417	"	0.833		74.8	19-123				
Di-n-octyl phthalate	0.721	0.0417	"	0.833		86.5	10-132				
Fluoranthene	0.650	0.0417	"	0.833		78.0	36-125				
Fluorene	0.613	0.0417	"	0.833		73.6	16-130				
Hexachlorobenzene	0.720	0.0417	"	0.833		86.4	10-129				
Hexachlorobutadiene	0.598	0.0417	"	0.833		71.8	22-153				
Hexachlorocyclopentadiene	0.431	0.0417	"	0.833		51.7	10-134				
Hexachloroethane	0.628	0.0417	"	0.833		75.3	20-112				
Indeno(1,2,3-cd)pyrene	0.651	0.0417	"	0.833		78.2	10-155				
Isophorone	0.629	0.0417	"	0.833		75.5	14-131				
Naphthalene	0.630	0.0417	"	0.833		75.6	20-121				
Nitrobenzene	0.670	0.0417	"	0.833		80.4	20-121				
N-Nitrosodimethylamine	0.639	0.0417	"	0.833		76.7	10-124				
N-nitroso-di-n-propylamine	0.649	0.0417	"	0.833		77.9	21-119				
N-Nitrosodiphenylamine	0.733	0.0417	"	0.833		88.0	10-163				
Pentachlorophenol	0.431	0.0417	"	0.833		51.8	10-143				
Phenanthrene	0.635	0.0417	"	0.833		76.2	24-123				
Phenol	0.726	0.0417	"	0.833		87.1	15-123				
Pyrene	0.664	0.0417	"	0.833		79.6	24-132				
Surrogate: 2-Fluorophenol	*1.32*		*"*	*1.67*		*78.9*	*20-108*				
Surrogate: Phenol-d5	*1.26*		*"*	*1.67*		*75.7*	*23-114*				
Surrogate: Nitrobenzene-d5	*0.698*		*"*	*0.833*		*83.8*	*22-108*				
Surrogate: 2-Fluorobiphenyl	*0.624*		*"*	*0.833*		*74.8*	*21-113*				
Surrogate: 2,4,6-Tribromophenol	*1.13*		*"*	*1.67*		*67.6*	*19-110*				
Surrogate: Terphenyl-d14	*0.697*		*"*	*0.833*		*83.6*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80763 - EPA 3550C											
Matrix Spike (BH80763-MS1)	*Source sample: 18H0563-15 (SB-8 (17'-19'))							Prepared: 08/15/2018 Analyzed: 08/16/2018			
1,1-Biphenyl	0.695	0.0885	mg/kg dry	0.884	ND	78.6	24-112				
1,2,4,5-Tetrachlorobenzene	0.728	0.177	"	0.884	ND	82.3	18-152				
1,2,4-Trichlorobenzene	0.592	0.0885	"	0.884	ND	67.0	15-139				
1,2-Dichlorobenzene	0.577	0.0885	"	0.884	ND	65.2	29-106				
1,2-Diphenylhydrazine (as Azobenzene)	0.799	0.0885	"	0.884	ND	90.4	10-135				
1,3-Dichlorobenzene	0.553	0.0885	"	0.884	ND	62.5	34-100				
1,4-Dichlorobenzene	0.535	0.0885	"	0.884	ND	60.5	26-107				
2,3,4,6-Tetrachlorophenol	0.884	0.177	"	0.884	ND	99.9	30-130				
2,4,5-Trichlorophenol	0.582	0.0885	"	0.884	ND	65.8	10-148				
2,4,6-Trichlorophenol	0.490	0.0885	"	0.884	ND	55.4	12-138				
2,4-Dichlorophenol	0.617	0.0885	"	0.884	ND	69.8	16-144				
2,4-Dimethylphenol	0.621	0.0885	"	0.884	ND	70.2	11-133				
2,4-Dinitrophenol	ND	0.177	"	0.884	ND		10-132	Low Bias			
2,4-Dinitrotoluene	0.584	0.0885	"	0.884	ND	66.1	42-113				
2,6-Dinitrotoluene	0.563	0.0885	"	0.884	ND	63.7	36-124				
2-Chloronaphthalene	0.621	0.0885	"	0.884	ND	70.2	31-116				
2-Chlorophenol	0.595	0.0885	"	0.884	ND	67.3	28-114				
2-Methylnaphthalene	0.668	0.0885	"	0.884	ND	75.5	10-143				
2-Methylphenol	0.552	0.0885	"	0.884	ND	62.4	10-160				
2-Nitroaniline	0.625	0.177	"	0.884	ND	70.7	33-122				
2-Nitrophenol	0.553	0.0885	"	0.884	ND	62.5	12-127				
3- & 4-Methylphenols	0.525	0.0885	"	0.884	ND	59.4	16-115				
3,3-Dichlorobenzidine	0.375	0.0885	"	0.884	ND	42.4	10-134				
3-Nitroaniline	0.524	0.177	"	0.884	ND	59.2	24-128				
4,6-Dinitro-2-methylphenol	ND	0.177	"	0.884	ND		10-149	Low Bias			
4-Bromophenyl phenyl ether	0.613	0.0885	"	0.884	ND	69.3	32-148				
4-Chloro-3-methylphenol	0.635	0.0885	"	0.884	ND	71.8	14-138				
4-Chloroaniline	0.445	0.0885	"	0.884	ND	50.3	10-124				
4-Chlorophenyl phenyl ether	0.594	0.0885	"	0.884	ND	67.1	10-153				
4-Nitroaniline	0.596	0.177	"	0.884	ND	67.4	10-151				
4-Nitrophenol	0.577	0.177	"	0.884	ND	65.2	10-141				
Acenaphthene	0.702	0.0885	"	0.884	0.0481	73.9	13-133				
Acenaphthylene	0.670	0.0885	"	0.884	ND	75.8	25-125				
Acetophenone	0.663	0.0885	"	0.884	ND	75.0	25-105				
Aniline	0.352	0.354	"	0.884	ND	39.8	10-112				
Anthracene	0.846	0.0885	"	0.884	0.166	76.9	27-128				
Atrazine	0.674	0.0885	"	0.884	ND	76.2	10-139				
Benzaldehyde	0.705	0.0885	"	0.884	ND	79.7	24-96				
Benzo(a)anthracene	1.13	0.0885	"	0.884	0.395	82.6	20-147				
Benzo(a)pyrene	1.24	0.0885	"	0.884	0.377	97.8	18-153				
Benzo(b)fluoranthene	1.08	0.0885	"	0.884	0.291	89.0	10-163				
Benzo(g,h,i)perylene	0.849	0.0885	"	0.884	0.189	74.6	10-157				
Benzo(k)fluoranthene	1.09	0.0885	"	0.884	0.310	87.9	10-157				
Benzoic acid	ND	0.0885	"	0.893	ND		10-130	Low Bias			
Benzyl alcohol	0.679	0.0885	"	0.884	ND	76.8	20-122				
Benzyl butyl phthalate	0.698	0.0885	"	0.884	ND	79.0	10-129				
Bis(2-chloroethoxy)methane	0.615	0.0885	"	0.884	ND	69.5	12-128				
Bis(2-chloroethyl)ether	0.640	0.0885	"	0.884	ND	72.3	18-113				
Bis(2-chloroisopropyl)ether	0.800	0.0885	"	0.884	ND	90.5	10-130				
Bis(2-ethylhexyl)phthalate	1.04	0.0885	"	0.884	0.273	86.6	10-138				
Caprolactam	0.653	0.177	"	0.884	ND	73.8	10-100				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80763 - EPA 3550C											
Matrix Spike (BH80763-MS1)	*Source sample: 18H0563-15 (SB-8 (17'-19'))						Prepared: 08/15/2018 Analyzed: 08/16/2018				
Carbazole	0.630	0.0885	mg/kg dry	0.884	ND	71.2	24-139				
Chrysene	1.17	0.0885	"	0.884	0.413	85.2	18-133				
Dibenzo(a,h)anthracene	0.734	0.0885	"	0.884	0.0637	75.8	10-146				
Dibenzofuran	0.656	0.0885	"	0.884	ND	74.2	26-134				
Diethyl phthalate	0.630	0.0885	"	0.884	ND	71.3	30-119				
Dimethyl phthalate	0.626	0.0885	"	0.884	ND	70.8	34-120				
Di-n-butyl phthalate	0.621	0.0885	"	0.884	ND	70.2	20-128				
Di-n-octyl phthalate	0.811	0.0885	"	0.884	ND	91.7	10-133				
Fluoranthene	1.50	0.0885	"	0.884	0.726	88.1	10-155				
Fluorene	0.679	0.0885	"	0.884	0.0502	71.1	12-150				
Hexachlorobenzene	0.783	0.0885	"	0.884	ND	88.6	16-142				
Hexachlorobutadiene	0.579	0.0885	"	0.884	ND	65.4	11-150				
Hexachlorocyclopentadiene	0.192	0.0885	"	0.884	ND	21.8	10-115				
Hexachloroethane	0.613	0.0885	"	0.884	ND	69.4	14-106				
Indeno(1,2,3-cd)pyrene	0.816	0.0885	"	0.884	0.160	74.2	10-155				
Isophorone	0.636	0.0885	"	0.884	ND	71.9	14-127				
Naphthalene	0.677	0.0885	"	0.884	ND	76.6	15-132				
Nitrobenzene	0.681	0.0885	"	0.884	ND	77.0	18-125				
N-Nitrosodimethylamine	0.568	0.0885	"	0.884	ND	64.2	10-123				
N-nitroso-di-n-propylamine	0.611	0.0885	"	0.884	ND	69.1	23-115				
N-Nitrosodiphenylamine	0.932	0.0885	"	0.884	ND	105	16-166				
Pentachlorophenol	0.121	0.0885	"	0.884	ND	13.7	10-160				
Phenanthrene	1.41	0.0885	"	0.884	0.675	82.7	10-151				
Phenol	0.687	0.0885	"	0.884	ND	77.7	11-124				
Pyrene	1.65	0.0885	"	0.884	0.786	98.0	13-148				
Surrogate: 2-Fluorophenol	*1.23*		*"*	*1.77*		*69.5*	*20-108*				
Surrogate: Phenol-d5	*1.20*		*"*	*1.77*		*68.0*	*23-114*				
Surrogate: Nitrobenzene-d5	*0.723*		*"*	*0.884*		*81.8*	*22-108*				
Surrogate: 2-Fluorobiphenyl	*0.653*		*"*	*0.884*		*73.8*	*21-113*				
Surrogate: 2,4,6-Tribromophenol	*1.02*		*"*	*1.77*		*57.8*	*19-110*				
Surrogate: Terphenyl-d14	*0.712*		*"*	*0.884*		*80.5*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80763 - EPA 3550C											
Matrix Spike Dup (BH80763-MSD1)	*Source sample: 18H0563-15 (SB-8 (17'-19'))							Prepared: 08/15/2018 Analyzed: 08/16/2018			
1,1-Biphenyl	0.603	0.0885	mg/kg dry	0.884	ND	68.2	24-112		14.1	30	
1,2,4,5-Tetrachlorobenzene	0.618	0.177	"	0.884	ND	69.9	18-152		16.3	30	
1,2,4-Trichlorobenzene	0.514	0.0885	"	0.884	ND	58.2	15-139		14.1	30	
1,2-Dichlorobenzene	0.480	0.0885	"	0.884	ND	54.2	29-106		18.4	30	
1,2-Diphenylhydrazine (as Azobenzene)	0.682	0.0885	"	0.884	ND	77.1	10-135		15.9	30	
1,3-Dichlorobenzene	0.494	0.0885	"	0.884	ND	55.8	34-100		11.2	30	
1,4-Dichlorobenzene	0.496	0.0885	"	0.884	ND	56.1	26-107		7.55	30	
2,3,4,6-Tetrachlorophenol	0.658	0.177	"	0.884	ND	74.4	30-130		29.3	30	
2,4,5-Trichlorophenol	0.473	0.0885	"	0.884	ND	53.4	10-148		20.8	30	
2,4,6-Trichlorophenol	0.392	0.0885	"	0.884	ND	44.3	12-138		22.3	30	
2,4-Dichlorophenol	0.559	0.0885	"	0.884	ND	63.2	16-144		9.87	30	
2,4-Dimethylphenol	0.528	0.0885	"	0.884	ND	59.8	11-133		16.1	30	
2,4-Dinitrophenol	ND	0.177	"	0.884	ND		10-132	Low Bias		30	
2,4-Dinitrotoluene	0.559	0.0885	"	0.884	ND	63.2	42-113		4.46	30	
2,6-Dinitrotoluene	0.552	0.0885	"	0.884	ND	62.4	36-124		2.03	30	
2-Chloronaphthalene	0.538	0.0885	"	0.884	ND	60.8	31-116		14.4	30	
2-Chlorophenol	0.514	0.0885	"	0.884	ND	58.2	28-114		14.5	30	
2-Methylnaphthalene	0.621	0.0885	"	0.884	ND	70.2	10-143		7.24	30	
2-Methylphenol	0.482	0.0885	"	0.884	ND	54.5	10-160		13.6	30	
2-Nitroaniline	0.569	0.177	"	0.884	ND	64.3	33-122		9.48	30	
2-Nitrophenol	0.512	0.0885	"	0.884	ND	57.9	12-127		7.57	30	
3- & 4-Methylphenols	0.469	0.0885	"	0.884	ND	53.0	16-115		11.2	30	
3,3-Dichlorobenzidine	0.322	0.0885	"	0.884	ND	36.4	10-134		15.2	30	
3-Nitroaniline	0.494	0.177	"	0.884	ND	55.8	24-128		5.84	30	
4,6-Dinitro-2-methylphenol	ND	0.177	"	0.884	ND		10-149	Low Bias		30	
4-Bromophenyl phenyl ether	0.566	0.0885	"	0.884	ND	64.0	32-148		7.92	30	
4-Chloro-3-methylphenol	0.601	0.0885	"	0.884	ND	67.9	14-138		5.61	30	
4-Chloroaniline	0.371	0.0885	"	0.884	ND	42.0	10-124		18.0	30	
4-Chlorophenyl phenyl ether	0.518	0.0885	"	0.884	ND	58.6	10-153		13.6	30	
4-Nitroaniline	0.503	0.177	"	0.884	ND	56.9	10-151		16.9	30	
4-Nitrophenol	0.490	0.177	"	0.884	ND	55.4	10-141		16.2	30	
Acenaphthene	0.633	0.0885	"	0.884	0.0481	66.2	13-133		10.3	30	
Acenaphthylene	0.584	0.0885	"	0.884	ND	66.0	25-125		13.8	30	
Acetophenone	0.551	0.0885	"	0.884	ND	62.3	25-105		18.4	30	
Aniline	0.299	0.354	"	0.884	ND	33.8	10-112		16.5	30	
Anthracene	0.750	0.0885	"	0.884	0.166	66.0	27-128		12.1	30	
Atrazine	0.597	0.0885	"	0.884	ND	67.5	10-139		12.1	30	
Benzaldehyde	0.614	0.0885	"	0.884	ND	69.4	24-96		13.7	30	
Benzo(a)anthracene	0.960	0.0885	"	0.884	0.395	63.9	20-147		15.9	30	
Benzo(a)pyrene	1.04	0.0885	"	0.884	0.377	75.4	18-153		17.3	30	
Benzo(b)fluoranthene	0.918	0.0885	"	0.884	0.291	70.9	10-163		16.0	30	
Benzo(g,h,i)perylene	0.698	0.0885	"	0.884	0.189	57.6	10-157		19.5	30	
Benzo(k)fluoranthene	0.908	0.0885	"	0.884	0.310	67.7	10-157		17.9	30	
Benzoic acid	ND	0.0885	"	0.893	ND		10-130	Low Bias		30	
Benzyl alcohol	0.574	0.0885	"	0.884	ND	64.9	20-122		16.8	30	
Benzyl butyl phthalate	0.621	0.0885	"	0.884	ND	70.2	10-129		11.7	30	
Bis(2-chloroethoxy)methane	0.506	0.0885	"	0.884	ND	57.2	12-128		19.4	30	
Bis(2-chloroethyl)ether	0.611	0.0885	"	0.884	ND	69.0	18-113		4.64	30	
Bis(2-chloroisopropyl)ether	0.730	0.0885	"	0.884	ND	82.6	10-130		9.15	30	
Bis(2-ethylhexyl)phthalate	0.906	0.0885	"	0.884	0.273	71.6	10-138		13.7	30	
Caprolactam	0.550	0.177	"	0.884	ND	62.2	10-100		17.0	30	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80763 - EPA 3550C											
Matrix Spike Dup (BH80763-MSD1)	*Source sample: 18H0563-15 (SB-8 (17'-19'))							Prepared: 08/15/2018 Analyzed: 08/16/2018			
Carbazole	0.574	0.0885	mg/kg dry	0.884	ND	65.0	24-139		9.17	30	
Chrysene	0.995	0.0885	"	0.884	0.413	65.8	18-133		15.8	30	
Dibenzo(a,h)anthracene	0.615	0.0885	"	0.884	0.0637	62.3	10-146		17.6	30	
Dibenzofuran	0.589	0.0885	"	0.884	ND	66.6	26-134		10.8	30	
Diethyl phthalate	0.562	0.0885	"	0.884	ND	63.5	30-119		11.5	30	
Dimethyl phthalate	0.533	0.0885	"	0.884	ND	60.2	34-120		16.1	30	
Di-n-butyl phthalate	0.573	0.0885	"	0.884	ND	64.8	20-128		8.06	30	
Di-n-octyl phthalate	0.703	0.0885	"	0.884	ND	79.5	10-133		14.2	30	
Fluoranthene	1.37	0.0885	"	0.884	0.726	73.1	10-155		9.20	30	
Fluorene	0.629	0.0885	"	0.884	0.0502	65.4	12-150		7.68	30	
Hexachlorobenzene	0.676	0.0885	"	0.884	ND	76.4	16-142		14.7	30	
Hexachlorobutadiene	0.530	0.0885	"	0.884	ND	59.9	11-150		8.81	30	
Hexachlorocyclopentadiene	0.122	0.0885	"	0.884	ND	13.8	10-115		45.0	30	Non-dir.
Hexachloroethane	0.512	0.0885	"	0.884	ND	57.8	14-106		18.1	30	
Indeno(1,2,3-cd)pyrene	0.703	0.0885	"	0.884	0.160	61.4	10-155		14.9	30	
Isophorone	0.574	0.0885	"	0.884	ND	64.9	14-127		10.3	30	
Naphthalene	0.597	0.0885	"	0.884	ND	67.5	15-132		12.5	30	
Nitrobenzene	0.574	0.0885	"	0.884	ND	65.0	18-125		17.0	30	
N-Nitrosodimethylamine	0.522	0.0885	"	0.884	ND	59.0	10-123		8.44	30	
N-nitroso-di-n-propylamine	0.561	0.0885	"	0.884	ND	63.4	23-115		8.57	30	
N-Nitrosodiphenylamine	0.805	0.0885	"	0.884	ND	91.0	16-166		14.7	30	
Pentachlorophenol	0.0524	0.0885	"	0.884	ND	5.92	10-160	Low Bias	79.2	30	Non-dir.
Phenanthrene	1.36	0.0885	"	0.884	0.675	78.0	10-151		3.01	30	
Phenol	0.595	0.0885	"	0.884	ND	67.3	11-124		14.3	30	
Pyrene	1.43	0.0885	"	0.884	0.786	73.2	13-148		14.2	30	
Surrogate: 2-Fluorophenol	*1.06*		*"*	*1.77*		*59.8*	*20-108*				
Surrogate: Phenol-d5	*1.07*		*"*	*1.77*		*60.2*	*23-114*				
Surrogate: Nitrobenzene-d5	*0.577*		*"*	*0.884*		*65.3*	*22-108*				
Surrogate: 2-Fluorobiphenyl	*0.541*		*"*	*0.884*		*61.2*	*21-113*				
Surrogate: 2,4,6-Tribromophenol	*0.795*		*"*	*1.77*		*45.0*	*19-110*				
Surrogate: Terphenyl-d14	*0.602*		*"*	*0.884*		*68.1*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80799 - EPA 3550C											
Blank (BH80799-BLK1)									Prepared: 08/16/2018 Analyzed: 08/17/2018		
1,1-Biphenyl	ND	0.0417	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0833	"								
1,2,4-Trichlorobenzene	ND	0.0417	"								
1,2-Dichlorobenzene	ND	0.0417	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0417	"								
1,3-Dichlorobenzene	ND	0.0417	"								
1,4-Dichlorobenzene	ND	0.0417	"								
2,3,4,6-Tetrachlorophenol	ND	0.0833	"								
2,4,5-Trichlorophenol	ND	0.0417	"								
2,4,6-Trichlorophenol	ND	0.0417	"								
2,4-Dichlorophenol	ND	0.0417	"								
2,4-Dimethylphenol	ND	0.0417	"								
2,4-Dinitrophenol	ND	0.0833	"								
2,4-Dinitrotoluene	ND	0.0417	"								
2,6-Dinitrotoluene	ND	0.0417	"								
2-Chloronaphthalene	ND	0.0417	"								
2-Chlorophenol	ND	0.0417	"								
2-Methylnaphthalene	ND	0.0417	"								
2-Methylphenol	ND	0.0417	"								
2-Nitroaniline	ND	0.0833	"								
2-Nitrophenol	ND	0.0417	"								
3- & 4-Methylphenols	ND	0.0417	"								
3,3-Dichlorobenzidine	ND	0.0417	"								
3-Nitroaniline	ND	0.0833	"								
4,6-Dinitro-2-methylphenol	ND	0.0833	"								
4-Bromophenyl phenyl ether	ND	0.0417	"								
4-Chloro-3-methylphenol	ND	0.0417	"								
4-Chloroaniline	ND	0.0417	"								
4-Chlorophenyl phenyl ether	ND	0.0417	"								
4-Nitroaniline	ND	0.0833	"								
4-Nitrophenol	ND	0.0833	"								
Acenaphthene	ND	0.0417	"								
Acenaphthylene	ND	0.0417	"								
Acetophenone	ND	0.0417	"								
Aniline	ND	0.167	"								
Anthracene	ND	0.0417	"								
Atrazine	ND	0.0417	"								
Benzaldehyde	ND	0.0417	"								
Benzidine	ND	0.167	"								
Benzo(a)anthracene	ND	0.0417	"								
Benzo(a)pyrene	ND	0.0417	"								
Benzo(b)fluoranthene	ND	0.0417	"								
Benzo(g,h,i)perylene	ND	0.0417	"								
Benzo(k)fluoranthene	ND	0.0417	"								
Benzoic acid	ND	0.0417	"								
Benzyl alcohol	ND	0.0417	"								
Benzyl butyl phthalate	ND	0.0417	"								
Bis(2-chloroethoxy)methane	ND	0.0417	"								
Bis(2-chloroethyl)ether	ND	0.0417	"								
Bis(2-chloroisopropyl)ether	ND	0.0417	"								
Bis(2-ethylhexyl)phthalate	ND	0.0417	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80799 - EPA 3550C											
Blank (BH80799-BLK1)								Prepared: 08/16/2018 Analyzed: 08/17/2018			
Caprolactam	ND	0.0833	mg/kg wet								
Carbazole	ND	0.0417	"								
Chrysene	ND	0.0417	"								
Dibenzo(a,h)anthracene	ND	0.0417	"								
Dibenzofuran	ND	0.0417	"								
Diethyl phthalate	ND	0.0417	"								
Dimethyl phthalate	ND	0.0417	"								
Di-n-butyl phthalate	ND	0.0417	"								
Di-n-octyl phthalate	ND	0.0417	"								
Fluoranthene	ND	0.0417	"								
Fluorene	ND	0.0417	"								
Hexachlorobenzene	ND	0.0417	"								
Hexachlorobutadiene	ND	0.0417	"								
Hexachlorocyclopentadiene	ND	0.0417	"								
Hexachloroethane	ND	0.0417	"								
Indeno(1,2,3-cd)pyrene	ND	0.0417	"								
Isophorone	ND	0.0417	"								
Naphthalene	ND	0.0417	"								
Nitrobenzene	ND	0.0417	"								
N-Nitrosodimethylamine	ND	0.0417	"								
N-nitroso-di-n-propylamine	ND	0.0417	"								
N-Nitrosodiphenylamine	ND	0.0417	"								
Pentachlorophenol	ND	0.0417	"								
Phenanthrene	ND	0.0417	"								
Phenol	ND	0.0417	"								
Pyrene	ND	0.0417	"								
Surrogate: 2-Fluorophenol	*1.35*		*"*	*1.67*		*81.2*	*20-108*				
Surrogate: Phenol-d5	*1.29*		*"*	*1.67*		*77.7*	*23-114*				
Surrogate: Nitrobenzene-d5	*0.834*		*"*	*0.833*		*100*	*22-108*				
Surrogate: 2-Fluorobiphenyl	*0.693*		*"*	*0.833*		*83.2*	*21-113*				
Surrogate: 2,4,6-Tribromophenol	*1.37*		*"*	*1.67*		*82.1*	*19-110*				
Surrogate: Terphenyl-d14	*0.810*		*"*	*0.833*		*97.2*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80799 - EPA 3550C											
LCS (BH80799-BS1)								Prepared: 08/16/2018 Analyzed: 08/17/2018			
1,1-Biphenyl	0.679	0.0417	mg/kg wet	0.833		81.4	22-103				
1,2,4,5-Tetrachlorobenzene	0.672	0.0833	"	0.833		80.6	10-144				
1,2,4-Trichlorobenzene	0.583	0.0417	"	0.833		70.0	23-130				
1,2-Dichlorobenzene	0.582	0.0417	"	0.833		69.8	26-113				
1,2-Diphenylhydrazine (as Azobenzene)	0.815	0.0417	"	0.833		97.8	10-140				
1,3-Dichlorobenzene	0.567	0.0417	"	0.833		68.1	32-113				
1,4-Dichlorobenzene	0.631	0.0417	"	0.833		75.8	28-111				
2,3,4,6-Tetrachlorophenol	1.64	0.0833	"	0.833		197	30-130	High Bias			
2,4,5-Trichlorophenol	0.611	0.0417	"	0.833		73.3	14-138				
2,4,6-Trichlorophenol	0.588	0.0417	"	0.833		70.6	27-122				
2,4-Dichlorophenol	0.668	0.0417	"	0.833		80.1	23-133				
2,4-Dimethylphenol	0.606	0.0417	"	0.833		72.8	15-131				
2,4-Dinitrophenol	0.623	0.0833	"	0.833		74.7	10-149				
2,4-Dinitrotoluene	0.631	0.0417	"	0.833		75.8	30-123				
2,6-Dinitrotoluene	0.608	0.0417	"	0.833		73.0	30-125				
2-Chloronaphthalene	0.566	0.0417	"	0.833		68.0	22-115				
2-Chlorophenol	0.591	0.0417	"	0.833		70.9	25-121				
2-Methylnaphthalene	0.652	0.0417	"	0.833		78.3	16-127				
2-Methylphenol	0.556	0.0417	"	0.833		66.7	10-146				
2-Nitroaniline	0.610	0.0833	"	0.833		73.2	24-126				
2-Nitrophenol	0.573	0.0417	"	0.833		68.8	17-129				
3- & 4-Methylphenols	0.561	0.0417	"	0.833		67.3	20-109				
3,3-Dichlorobenzidine	0.424	0.0417	"	0.833		50.8	10-147				
3-Nitroaniline	0.541	0.0833	"	0.833		65.0	23-123				
4,6-Dinitro-2-methylphenol	0.671	0.0833	"	0.833		80.6	10-149				
4-Bromophenyl phenyl ether	0.629	0.0417	"	0.833		75.5	30-138				
4-Chloro-3-methylphenol	0.703	0.0417	"	0.833		84.4	16-138				
4-Chloroaniline	0.498	0.0417	"	0.833		59.7	10-117				
4-Chlorophenyl phenyl ether	0.590	0.0417	"	0.833		70.8	18-132				
4-Nitroaniline	0.576	0.0833	"	0.833		69.1	14-125				
4-Nitrophenol	0.701	0.0833	"	0.833		84.1	10-136				
Acenaphthene	0.613	0.0417	"	0.833		73.6	17-124				
Acenaphthylene	0.617	0.0417	"	0.833		74.1	16-124				
Acetophenone	0.658	0.0417	"	0.833		79.0	28-105				
Aniline	0.428	0.167	"	0.833		51.4	10-111				
Anthracene	0.667	0.0417	"	0.833		80.0	24-124				
Atrazine	0.692	0.0417	"	0.833		83.0	22-120				
Benzaldehyde	0.680	0.0417	"	0.833		81.6	21-100				
Benzo(a)anthracene	0.649	0.0417	"	0.833		77.9	25-134				
Benzo(a)pyrene	0.720	0.0417	"	0.833		86.4	29-144				
Benzo(b)fluoranthene	0.672	0.0417	"	0.833		80.6	20-151				
Benzo(g,h,i)perylene	0.692	0.0417	"	0.833		83.0	10-153				
Benzo(k)fluoranthene	0.671	0.0417	"	0.833		80.5	10-148				
Benzoic acid	0.455	0.0417	"	0.842		54.1	10-116				
Benzyl alcohol	0.701	0.0417	"	0.833		84.2	17-128				
Benzyl butyl phthalate	0.678	0.0417	"	0.833		81.3	10-132				
Bis(2-chloroethoxy)methane	0.623	0.0417	"	0.833		74.8	10-129				
Bis(2-chloroethyl)ether	0.628	0.0417	"	0.833		75.3	14-125				
Bis(2-chloroisopropyl)ether	0.913	0.0417	"	0.833		110	14-122				
Bis(2-ethylhexyl)phthalate	0.730	0.0417	"	0.833		87.6	10-141				
Caprolactam	0.604	0.0833	"	0.833		72.5	10-123				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80799 - EPA 3550C											
LCS (BH80799-BS1)								Prepared: 08/16/2018 Analyzed: 08/17/2018			
Carbazole	0.618	0.0417	mg/kg wet	0.833		74.1	31-120				
Chrysene	0.650	0.0417	"	0.833		78.0	24-116				
Dibenzo(a,h)anthracene	0.698	0.0417	"	0.833		83.8	17-147				
Dibenzofuran	0.609	0.0417	"	0.833		73.1	23-123				
Diethyl phthalate	0.667	0.0417	"	0.833		80.1	23-122				
Dimethyl phthalate	0.642	0.0417	"	0.833		77.0	28-127				
Di-n-butyl phthalate	0.657	0.0417	"	0.833		78.9	19-123				
Di-n-octyl phthalate	0.717	0.0417	"	0.833		86.1	10-132				
Fluoranthene	0.661	0.0417	"	0.833		79.4	36-125				
Fluorene	0.641	0.0417	"	0.833		76.9	16-130				
Hexachlorobenzene	0.803	0.0417	"	0.833		96.4	10-129				
Hexachlorobutadiene	0.644	0.0417	"	0.833		77.3	22-153				
Hexachlorocyclopentadiene	0.315	0.0417	"	0.833		37.8	10-134				
Hexachloroethane	0.677	0.0417	"	0.833		81.2	20-112				
Indeno(1,2,3-cd)pyrene	0.683	0.0417	"	0.833		81.9	10-155				
Isophorone	0.647	0.0417	"	0.833		77.6	14-131				
Naphthalene	0.631	0.0417	"	0.833		75.7	20-121				
Nitrobenzene	0.701	0.0417	"	0.833		84.1	20-121				
N-Nitrosodimethylamine	0.591	0.0417	"	0.833		70.9	10-124				
N-nitroso-di-n-propylamine	0.641	0.0417	"	0.833		76.9	21-119				
N-Nitrosodiphenylamine	0.754	0.0417	"	0.833		90.5	10-163				
Pentachlorophenol	0.511	0.0417	"	0.833		61.3	10-143				
Phenanthrene	0.679	0.0417	"	0.833		81.5	24-123				
Phenol	0.695	0.0417	"	0.833		83.4	15-123				
Pyrene	0.680	0.0417	"	0.833		81.6	24-132				
Surrogate: 2-Fluorophenol	*1.26*		*"*	*1.67*		*75.8*	*20-108*				
Surrogate: Phenol-d5	*1.21*		*"*	*1.67*		*72.9*	*23-114*				
Surrogate: Nitrobenzene-d5	*0.721*		*"*	*0.833*		*86.5*	*22-108*				
Surrogate: 2-Fluorobiphenyl	*0.617*		*"*	*0.833*		*74.1*	*21-113*				
Surrogate: 2,4,6-Tribromophenol	*1.17*		*"*	*1.67*		*70.4*	*19-110*				
Surrogate: Terphenyl-d14	*0.694*		*"*	*0.833*		*83.2*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80799 - EPA 3550C											
Matrix Spike (BH80799-MS1)	*Source sample: 18H0563-07 (SB-4 (17'-19'))							Prepared: 08/16/2018 Analyzed: 08/17/2018			
1,1-Biphenyl	0.538	0.0895	mg/kg dry	0.894	ND	60.2	24-112				
1,2,4,5-Tetrachlorobenzene	0.563	0.179	"	0.894	ND	63.0	18-152				
1,2,4-Trichlorobenzene	0.468	0.0895	"	0.894	ND	52.4	15-139				
1,2-Dichlorobenzene	0.471	0.0895	"	0.894	ND	52.7	29-106				
1,2-Diphenylhydrazine (as Azobenzene)	0.585	0.0895	"	0.894	ND	65.4	10-135				
1,3-Dichlorobenzene	0.418	0.0895	"	0.894	ND	46.8	34-100				
1,4-Dichlorobenzene	0.478	0.0895	"	0.894	ND	53.4	26-107				
2,3,4,6-Tetrachlorophenol	1.51	0.179	"	0.894	ND	169	30-130	High Bias			
2,4,5-Trichlorophenol	0.521	0.0895	"	0.894	ND	58.2	10-148				
2,4,6-Trichlorophenol	0.487	0.0895	"	0.894	ND	54.5	12-138				
2,4-Dichlorophenol	0.560	0.0895	"	0.894	ND	62.6	16-144				
2,4-Dimethylphenol	0.434	0.0895	"	0.894	ND	48.6	11-133				
2,4-Dinitrophenol	ND	0.179	"	0.894	ND		10-132	Low Bias			
2,4-Dinitrotoluene	0.459	0.0895	"	0.894	ND	51.4	42-113				
2,6-Dinitrotoluene	0.460	0.0895	"	0.894	ND	51.4	36-124				
2-Chloronaphthalene	0.457	0.0895	"	0.894	ND	51.1	31-116				
2-Chlorophenol	0.548	0.0895	"	0.894	ND	61.3	28-114				
2-Methylnaphthalene	0.509	0.0895	"	0.894	ND	57.0	10-143				
2-Methylphenol	0.518	0.0895	"	0.894	ND	57.9	10-160				
2-Nitroaniline	0.522	0.179	"	0.894	ND	58.4	33-122				
2-Nitrophenol	0.303	0.0895	"	0.894	ND	33.9	12-127				
3- & 4-Methylphenols	0.463	0.0895	"	0.894	ND	51.8	16-115				
3,3-Dichlorobenzidine	0.335	0.0895	"	0.894	ND	37.5	10-134				
3-Nitroaniline	0.529	0.179	"	0.894	ND	59.2	24-128				
4,6-Dinitro-2-methylphenol	ND	0.179	"	0.894	ND		10-149	Low Bias			
4-Bromophenyl phenyl ether	0.409	0.0895	"	0.894	ND	45.8	32-148				
4-Chloro-3-methylphenol	0.588	0.0895	"	0.894	ND	65.8	14-138				
4-Chloroaniline	0.445	0.0895	"	0.894	ND	49.8	10-124				
4-Chlorophenyl phenyl ether	0.453	0.0895	"	0.894	ND	50.7	10-153				
4-Nitroaniline	0.536	0.179	"	0.894	ND	60.0	10-151				
4-Nitrophenol	0.679	0.179	"	0.894	ND	75.9	10-141				
Acenaphthene	0.509	0.0895	"	0.894	ND	57.0	13-133				
Acenaphthylene	0.501	0.0895	"	0.894	ND	56.1	25-125				
Acetophenone	0.559	0.0895	"	0.894	ND	62.6	25-105				
Aniline	0.348	0.358	"	0.894	ND	39.0	10-112				
Anthracene	0.488	0.0895	"	0.894	ND	54.6	27-128				
Atrazine	0.578	0.0895	"	0.894	ND	64.7	10-139				
Benzaldehyde	0.567	0.0895	"	0.894	ND	63.4	24-96				
Benzo(a)anthracene	0.519	0.0895	"	0.894	ND	58.1	20-147				
Benzo(a)pyrene	0.585	0.0895	"	0.894	ND	65.4	18-153				
Benzo(b)fluoranthene	0.523	0.0895	"	0.894	ND	58.5	10-163				
Benzo(g,h,i)perylene	0.493	0.0895	"	0.894	ND	55.2	10-157				
Benzo(k)fluoranthene	0.541	0.0895	"	0.894	ND	60.5	10-157				
Benzoic acid	0.509	0.0895	"	0.903	ND	56.4	10-130				
Benzyl alcohol	0.605	0.0895	"	0.894	ND	67.7	20-122				
Benzyl butyl phthalate	0.524	0.0895	"	0.894	ND	58.6	10-129				
Bis(2-chloroethoxy)methane	0.496	0.0895	"	0.894	ND	55.5	12-128				
Bis(2-chloroethyl)ether	0.591	0.0895	"	0.894	ND	66.2	18-113				
Bis(2-chloroisopropyl)ether	0.721	0.0895	"	0.894	ND	80.6	10-130				
Bis(2-ethylhexyl)phthalate	0.588	0.0895	"	0.894	ND	65.8	10-138				
Caprolactam	0.522	0.179	"	0.894	ND	58.4	10-100				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80799 - EPA 3550C											
Matrix Spike (BH80799-MS1)	*Source sample: 18H0563-07 (SB-4 (17'-19'))							Prepared: 08/16/2018 Analyzed: 08/17/2018			
Carbazole	0.499	0.0895	mg/kg dry	0.894	ND	55.8	24-139				
Chrysene	0.520	0.0895	"	0.894	ND	58.2	18-133				
Dibenzo(a,h)anthracene	0.516	0.0895	"	0.894	ND	57.8	10-146				
Dibenzofuran	0.479	0.0895	"	0.894	ND	53.6	26-134				
Diethyl phthalate	0.498	0.0895	"	0.894	ND	55.7	30-119				
Dimethyl phthalate	0.476	0.0895	"	0.894	ND	53.2	34-120				
Di-n-butyl phthalate	0.473	0.0895	"	0.894	ND	53.0	20-128				
Di-n-octyl phthalate	0.576	0.0895	"	0.894	ND	64.5	10-133				
Fluoranthene	0.528	0.0895	"	0.894	ND	59.1	10-155				
Fluorene	0.508	0.0895	"	0.894	ND	56.9	12-150				
Hexachlorobenzene	0.634	0.0895	"	0.894	ND	70.9	16-142				
Hexachlorobutadiene	0.443	0.0895	"	0.894	ND	49.5	11-150				
Hexachlorocyclopentadiene	0.0529	0.0895	"	0.894	ND	5.92	10-115	Low Bias			
Hexachloroethane	0.434	0.0895	"	0.894	ND	48.6	14-106				
Indeno(1,2,3-cd)pyrene	0.494	0.0895	"	0.894	ND	55.3	10-155				
Isophorone	0.558	0.0895	"	0.894	ND	62.4	14-127				
Naphthalene	0.530	0.0895	"	0.894	ND	59.3	15-132				
Nitrobenzene	0.612	0.0895	"	0.894	ND	68.5	18-125				
N-Nitrosodimethylamine	0.470	0.0895	"	0.894	ND	52.6	10-123				
N-nitroso-di-n-propylamine	0.518	0.0895	"	0.894	ND	58.0	23-115				
N-Nitrosodiphenylamine	0.548	0.0895	"	0.894	ND	61.4	16-166				
Pentachlorophenol	0.498	0.0895	"	0.894	ND	55.7	10-160				
Phenanthrene	0.506	0.0895	"	0.894	ND	56.6	10-151				
Phenol	0.569	0.0895	"	0.894	ND	63.7	11-124				
Pyrene	0.569	0.0895	"	0.894	ND	63.7	13-148				
Surrogate: 2-Fluorophenol	*1.05*		*"*	*1.79*		*58.7*	*20-108*				
Surrogate: Phenol-d5	*1.03*		*"*	*1.79*		*57.5*	*23-114*				
Surrogate: Nitrobenzene-d5	*0.631*		*"*	*0.894*		*70.6*	*22-108*				
Surrogate: 2-Fluorobiphenyl	*0.480*		*"*	*0.894*		*53.7*	*21-113*				
Surrogate: 2,4,6-Tribromophenol	*1.04*		*"*	*1.79*		*58.2*	*19-110*				
Surrogate: Terphenyl-d14	*0.621*		*"*	*0.894*		*69.4*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80799 - EPA 3550C											
Matrix Spike Dup (BH80799-MSD1)	*Source sample: 18H0563-07 (SB-4 (17'-19'))							Prepared: 08/16/2018 Analyzed: 08/17/2018			
1,1-Biphenyl	0.591	0.0895	mg/kg dry	0.894	ND	66.2	24-112		9.37	30	
1,2,4,5-Tetrachlorobenzene	0.588	0.179	"	0.894	ND	65.8	18-152		4.47	30	
1,2,4-Trichlorobenzene	0.496	0.0895	"	0.894	ND	55.4	15-139		5.64	30	
1,2-Dichlorobenzene	0.513	0.0895	"	0.894	ND	57.4	29-106		8.57	30	
1,2-Diphenylhydrazine (as Azobenzene)	0.671	0.0895	"	0.894	ND	75.1	10-135		13.8	30	
1,3-Dichlorobenzene	0.469	0.0895	"	0.894	ND	52.5	34-100		11.4	30	
1,4-Dichlorobenzene	0.523	0.0895	"	0.894	ND	58.5	26-107		9.01	30	
2,3,4,6-Tetrachlorophenol	1.75	0.179	"	0.894	ND	196	30-130	High Bias	14.9	30	
2,4,5-Trichlorophenol	0.588	0.0895	"	0.894	ND	65.8	10-148		12.3	30	
2,4,6-Trichlorophenol	0.609	0.0895	"	0.894	ND	68.2	12-138		22.3	30	
2,4-Dichlorophenol	0.656	0.0895	"	0.894	ND	73.4	16-144		15.9	30	
2,4-Dimethylphenol	0.559	0.0895	"	0.894	ND	62.6	11-133		25.2	30	
2,4-Dinitrophenol	ND	0.179	"	0.894	ND		10-132	Low Bias		30	
2,4-Dinitrotoluene	0.519	0.0895	"	0.894	ND	58.1	42-113		12.3	30	
2,6-Dinitrotoluene	0.517	0.0895	"	0.894	ND	57.8	36-124		11.7	30	
2-Chloronaphthalene	0.493	0.0895	"	0.894	ND	55.1	31-116		7.53	30	
2-Chlorophenol	0.554	0.0895	"	0.894	ND	62.0	28-114		1.17	30	
2-Methylnaphthalene	0.598	0.0895	"	0.894	ND	66.9	10-143		16.0	30	
2-Methylphenol	0.482	0.0895	"	0.894	ND	53.9	10-160		7.15	30	
2-Nitroaniline	0.583	0.179	"	0.894	ND	65.2	33-122		11.0	30	
2-Nitrophenol	0.398	0.0895	"	0.894	ND	44.6	12-127		27.1	30	
3- & 4-Methylphenols	0.500	0.0895	"	0.894	ND	55.9	16-115		7.57	30	
3,3-Dichlorobenzidine	0.361	0.0895	"	0.894	ND	40.4	10-134		7.39	30	
3-Nitroaniline	0.581	0.179	"	0.894	ND	65.0	24-128		9.40	30	
4,6-Dinitro-2-methylphenol	ND	0.179	"	0.894	ND		10-149	Low Bias		30	
4-Bromophenyl phenyl ether	0.481	0.0895	"	0.894	ND	53.8	32-148		16.2	30	
4-Chloro-3-methylphenol	0.640	0.0895	"	0.894	ND	71.6	14-138		8.38	30	
4-Chloroaniline	0.506	0.0895	"	0.894	ND	56.6	10-124		12.9	30	
4-Chlorophenyl phenyl ether	0.460	0.0895	"	0.894	ND	51.4	10-153		1.41	30	
4-Nitroaniline	0.587	0.179	"	0.894	ND	65.7	10-151		9.04	30	
4-Nitrophenol	0.729	0.179	"	0.894	ND	81.5	10-141		7.11	30	
Acenaphthene	0.537	0.0895	"	0.894	ND	60.1	13-133		5.33	30	
Acenaphthylene	0.518	0.0895	"	0.894	ND	58.0	25-125		3.37	30	
Acetophenone	0.577	0.0895	"	0.894	ND	64.6	25-105		3.15	30	
Aniline	0.342	0.358	"	0.894	ND	38.2	10-112		1.87	30	
Anthracene	0.550	0.0895	"	0.894	ND	61.5	27-128		11.8	30	
Atrazine	0.571	0.0895	"	0.894	ND	63.8	10-139		1.37	30	
Benzaldehyde	0.593	0.0895	"	0.894	ND	66.4	24-96		4.56	30	
Benzo(a)anthracene	0.543	0.0895	"	0.894	ND	60.7	20-147		4.44	30	
Benzo(a)pyrene	0.566	0.0895	"	0.894	ND	63.4	18-153		3.23	30	
Benzo(b)fluoranthene	0.546	0.0895	"	0.894	ND	61.0	10-163		4.28	30	
Benzo(g,h,i)perylene	0.501	0.0895	"	0.894	ND	56.1	10-157		1.58	30	
Benzo(k)fluoranthene	0.553	0.0895	"	0.894	ND	61.8	10-157		2.22	30	
Benzoic acid	0.516	0.0895	"	0.903	ND	57.1	10-130		1.26	30	
Benzyl alcohol	0.678	0.0895	"	0.894	ND	75.8	20-122		11.4	30	
Benzyl butyl phthalate	0.571	0.0895	"	0.894	ND	63.8	10-129		8.49	30	
Bis(2-chloroethoxy)methane	0.531	0.0895	"	0.894	ND	59.4	12-128		6.69	30	
Bis(2-chloroethyl)ether	0.599	0.0895	"	0.894	ND	67.0	18-113		1.20	30	
Bis(2-chloroisopropyl)ether	0.776	0.0895	"	0.894	ND	86.8	10-130		7.36	30	
Bis(2-ethylhexyl)phthalate	0.615	0.0895	"	0.894	ND	68.8	10-138		4.40	30	
Caprolactam	0.541	0.179	"	0.894	ND	60.6	10-100		3.63	30	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80799 - EPA 3550C											
Matrix Spike Dup (BH80799-MSD1)	*Source sample: 18H0563-07 (SB-4 (17'-19'))							Prepared: 08/16/2018 Analyzed: 08/17/2018			
Carbazole	0.564	0.0895	mg/kg dry	0.894	ND	63.1	24-139		12.2	30	
Chrysene	0.556	0.0895	"	0.894	ND	62.2	18-133		6.78	30	
Dibenzo(a,h)anthracene	0.517	0.0895	"	0.894	ND	57.8	10-146		0.138	30	
Dibenzofuran	0.541	0.0895	"	0.894	ND	60.5	26-134		12.1	30	
Diethyl phthalate	0.561	0.0895	"	0.894	ND	62.7	30-119		11.9	30	
Dimethyl phthalate	0.583	0.0895	"	0.894	ND	65.2	34-120		20.3	30	
Di-n-butyl phthalate	0.536	0.0895	"	0.894	ND	60.0	20-128		12.5	30	
Di-n-octyl phthalate	0.611	0.0895	"	0.894	ND	68.4	10-133		5.90	30	
Fluoranthene	0.583	0.0895	"	0.894	ND	65.3	10-155		9.90	30	
Fluorene	0.558	0.0895	"	0.894	ND	62.5	12-150		9.38	30	
Hexachlorobenzene	0.696	0.0895	"	0.894	ND	77.8	16-142		9.36	30	
Hexachlorobutadiene	0.554	0.0895	"	0.894	ND	62.0	11-150		22.4	30	
Hexachlorocyclopentadiene	0.0479	0.0895	"	0.894	ND	5.36	10-115	Low Bias	9.93	30	
Hexachloroethane	0.486	0.0895	"	0.894	ND	54.3	14-106		11.2	30	
Indeno(1,2,3-cd)pyrene	0.521	0.0895	"	0.894	ND	58.3	10-155		5.35	30	
Isophorone	0.605	0.0895	"	0.894	ND	67.7	14-127		8.12	30	
Naphthalene	0.573	0.0895	"	0.894	ND	64.2	15-132		7.91	30	
Nitrobenzene	0.670	0.0895	"	0.894	ND	75.0	18-125		9.04	30	
N-Nitrosodimethylamine	0.511	0.0895	"	0.894	ND	57.2	10-123		8.45	30	
N-nitroso-di-n-propylamine	0.569	0.0895	"	0.894	ND	63.7	23-115		9.34	30	
N-Nitrosodiphenylamine	0.600	0.0895	"	0.894	ND	67.1	16-166		8.97	30	
Pentachlorophenol	0.480	0.0895	"	0.894	ND	53.7	10-160		3.66	30	
Phenanthrene	0.549	0.0895	"	0.894	ND	61.4	10-151		8.27	30	
Phenol	0.619	0.0895	"	0.894	ND	69.2	11-124		8.31	30	
Pyrene	0.587	0.0895	"	0.894	ND	65.7	13-148		3.09	30	
Surrogate: 2-Fluorophenol	*1.18*		*"*	*1.79*		*65.8*	*20-108*				
Surrogate: Phenol-d5	*1.10*		*"*	*1.79*		*61.4*	*23-114*				
Surrogate: Nitrobenzene-d5	*0.658*		*"*	*0.894*		*73.6*	*22-108*				
Surrogate: 2-Fluorobiphenyl	*0.552*		*"*	*0.894*		*61.8*	*21-113*				
Surrogate: 2,4,6-Tribromophenol	*1.15*		*"*	*1.79*		*64.5*	*19-110*				
Surrogate: Terphenyl-d14	*0.638*		*"*	*0.894*		*71.4*	*24-116*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80762 - EPA 3550C											
Blank (BH80762-BLK1)								Prepared: 08/15/2018 Analyzed: 08/16/2018			
4,4'-DDD	ND	0.000330	mg/kg wet								
4,4'-DDE	ND	0.000330	"								
4,4'-DDT	ND	0.000330	"								
Aldrin	ND	0.000330	"								
alpha-BHC	ND	0.000330	"								
alpha-Chlordane	ND	0.000330	"								
beta-BHC	ND	0.000330	"								
Chlordane, total	ND	0.00660	"								
delta-BHC	ND	0.000330	"								
Dieldrin	ND	0.000330	"								
Endosulfan I	ND	0.000330	"								
Endosulfan II	ND	0.000330	"								
Endosulfan sulfate	ND	0.000330	"								
Endrin	ND	0.000330	"								
Endrin aldehyde	ND	0.000330	"								
Endrin ketone	ND	0.000330	"								
gamma-BHC (Lindane)	ND	0.000330	"								
gamma-Chlordane	ND	0.000330	"								
Heptachlor	ND	0.000330	"								
Heptachlor epoxide	ND	0.000330	"								
Methoxychlor	ND	0.00165	"								
Toxaphene	ND	0.0167	"								
Surrogate: Decachlorobiphenyl	*0.0475*		*"*	*0.0670*		*70.9*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0559*		*"*	*0.0673*		*83.0*	*30-150*				
LCS (BH80762-BS1)								Prepared: 08/15/2018 Analyzed: 08/16/2018			
4,4'-DDD	0.0380	0.000330	mg/kg wet	0.0333		114	40-140				
4,4'-DDE	0.0342	0.000330	"	0.0333		103	40-140				
4,4'-DDT	0.0387	0.000330	"	0.0333		116	40-140				
Aldrin	0.0362	0.000330	"	0.0333		109	40-140				
alpha-BHC	0.0406	0.000330	"	0.0333		122	40-140				
alpha-Chlordane	0.0347	0.000330	"	0.0333		104	40-140				
beta-BHC	0.0340	0.000330	"	0.0333		102	40-140				
delta-BHC	0.0417	0.000330	"	0.0333		125	40-140				
Dieldrin	0.0305	0.000330	"	0.0333		91.6	40-140				
Endosulfan I	0.0353	0.000330	"	0.0333		106	40-140				
Endosulfan II	0.0365	0.000330	"	0.0333		110	40-140				
Endosulfan sulfate	0.0344	0.000330	"	0.0333		103	40-140				
Endrin	0.0375	0.000330	"	0.0333		112	40-140				
Endrin aldehyde	0.0352	0.000330	"	0.0333		106	40-140				
Endrin ketone	0.0342	0.000330	"	0.0333		103	40-140				
gamma-BHC (Lindane)	0.0386	0.000330	"	0.0333		116	40-140				
gamma-Chlordane	0.0346	0.000330	"	0.0333		104	40-140				
Heptachlor	0.0338	0.000330	"	0.0333		101	40-140				
Heptachlor epoxide	0.0334	0.000330	"	0.0333		100	40-140				
Methoxychlor	0.0330	0.00165	"	0.0333		98.9	40-140				
Surrogate: Decachlorobiphenyl	*0.0512*		*"*	*0.0670*		*76.5*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0585*		*"*	*0.0673*		*86.9*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch Y8H1714 - BH80158											
Performance Mix (Y8H1714-PEM1)								Prepared & Analyzed: 08/16/2018			
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	1.12		"	0.00			0-200				
4,4'-DDT	331		"	200		165	0-200				
Endrin	211		"	100		211	0-200	High Bias			
Endrin aldehyde	9.16		"	0.00			0-200				
Endrin ketone	11.8		"	0.00			0-200				
Performance Mix (Y8H1714-PEM2)								Prepared & Analyzed: 08/16/2018			
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.571		"	0.00			0-200				
4,4'-DDT	331		"	200		166	0-200				
Endrin	195		"	100		195	0-200				
Endrin aldehyde	2.75		"	0.00			0-200				
Endrin ketone	4.88		"	0.00			0-200				
Performance Mix (Y8H1714-PEM3)								Prepared: 08/16/2018 Analyzed: 08/17/2018			
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.984		"	0.00			0-200				
4,4'-DDT	311		"	200		155	0-200				
Endrin	205		"	100		205	0-200	High Bias			
Endrin aldehyde	2.96		"	0.00			0-200				
Endrin ketone	11.4		"	0.00			0-200				
Batch Y8H2015 - BH80158											
Performance Mix (Y8H2015-PEM1)								Prepared & Analyzed: 08/17/2018			
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.766		"	0.00			0-200				
4,4'-DDT	311		"	200		156	0-200				
Endrin	189		"	100		189	0-200				
Endrin aldehyde	2.18		"	0.00			0-200				
Endrin ketone	9.22		"	0.00			0-200				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch Y8H2015 - BH80158											
Performance Mix (Y8H2015-PEM2)							Prepared & Analyzed: 08/17/2018				
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.867		"	0.00			0-200				
4,4'-DDT	288		"	200		144	0-200				
Endrin	193		"	100		193	0-200				
Endrin aldehyde	2.52		"	0.00			0-200				
Endrin ketone	10.7		"	0.00			0-200				
Performance Mix (Y8H2015-PEM3)							Prepared: 08/17/2018 Analyzed: 08/18/2018				
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.939		"	0.00			0-200				
4,4'-DDT	292		"	200		146	0-200				
Endrin	200		"	100		200	0-200				
Endrin aldehyde	2.87		"	0.00			0-200				
Endrin ketone	10.4		"	0.00			0-200				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80762 - EPA 3550C											
Blank (BH80762-BLK2)								Prepared: 08/15/2018 Analyzed: 08/16/2018			
Aroclor 1016	ND	0.0167	mg/kg wet								
Aroclor 1221	ND	0.0167	"								
Aroclor 1232	ND	0.0167	"								
Aroclor 1242	ND	0.0167	"								
Aroclor 1248	ND	0.0167	"								
Aroclor 1254	ND	0.0167	"								
Aroclor 1260	ND	0.0167	"								
Total PCBs	ND	0.0167	"								
Surrogate: Tetrachloro-m-xylene	*0.0677*		*"*	*0.0673*		*100*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0670*		*"*	*0.0670*		*100*	*30-140*				
LCS (BH80762-BS2)								Prepared: 08/15/2018 Analyzed: 08/16/2018			
Aroclor 1016	0.360	0.0167	mg/kg wet	0.333		108	40-130				
Aroclor 1260	0.355	0.0167	"	0.333		106	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0680*		*"*	*0.0673*		*101*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0670*		*"*	*0.0670*		*100*	*30-140*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80723 - EPA 3050B											
Blank (BH80723-BLK1)								Prepared & Analyzed: 08/15/2018			
Aluminum	ND	5.00	mg/kg wet								
Antimony	1.38	0.500	"								
Arsenic	ND	1.00	"								
Barium	ND	1.00	"								
Beryllium	ND	0.100	"								
Cadmium	ND	0.300	"								
Calcium	ND	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.500	"								
Copper	ND	0.500	"								
Iron	ND	2.00	"								
Lead	ND	0.500	"								
Magnesium	ND	5.00	"								
Manganese	ND	0.500	"								
Nickel	ND	0.500	"								
Potassium	10.8	5.00	"								
Selenium	1.40	1.00	"								
Silver	ND	0.500	"								
Sodium	43.5	10.0	"								
Thallium	ND	1.00	"								
Vanadium	ND	1.00	"								
Zinc	ND	1.50	"								
Reference (BH80723-SRM1)								Prepared & Analyzed: 08/15/2018			
Aluminum	7050	5.00	mg/kg wet	8040		87.7	39.4-160.5				
Antimony	131	0.500	"	91.4		143	25.1-275.7				
Arsenic	152	1.00	"	146		104	69.9-132.9				
Barium	98.5	1.00	"	102		96.6	71.5-136.3				
Beryllium	142	0.100	"	134		106	75.4-138.1				
Cadmium	63.8	0.300	"	63.2		101	73.3-141.5				
Calcium	5700	5.00	"	5930		96.2	73.7-136.1				
Chromium	93.2	0.500	"	89.3		104	69.1-143.3				
Cobalt	127	0.500	"	119		106	74.6-142				
Copper	64.8	0.500	"	60.8		107	72.7-141.6				
Iron	14800	2.00	"	14400		103	35.6-163.9				
Lead	101	0.500	"	98.5		102	70.8-137.1				
Magnesium	2450	5.00	"	2580		94.8	63.6-136.1				
Manganese	392	0.500	"	370		106	75.7-134.3				
Nickel	77.7	0.500	"	66.6		117	70.7-146.3				
Potassium	2070	5.00	"	2340		88.6	59.8-140.2				
Selenium	113	1.00	"	136		82.7	67.1-136.8				
Silver	48.3	0.500	"	48.9		98.7	66.5-139.5				
Sodium	394	10.0	"	318		124	40.6-159.8				
Thallium	153	1.00	"	138		111	68-136.2				
Vanadium	71.3	1.00	"	69.7		102	58.9-141.8				
Zinc	181	1.50	"	177		102	69.5-131.1				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80724 - EPA 3050B											
Blank (BH80724-BLK1)								Prepared: 08/15/2018 Analyzed: 08/20/2018			
Aluminum	5.91	5.00	mg/kg wet								
Antimony	ND	0.500	"								
Arsenic	ND	1.00	"								
Barium	ND	1.00	"								
Beryllium	ND	0.100	"								
Cadmium	ND	0.300	"								
Calcium	ND	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.500	"								
Copper	ND	0.500	"								
Iron	ND	2.00	"								
Lead	ND	0.500	"								
Magnesium	ND	5.00	"								
Manganese	ND	0.500	"								
Nickel	ND	0.500	"								
Potassium	ND	5.00	"								
Selenium	ND	1.00	"								
Silver	ND	0.500	"								
Sodium	11.6	10.0	"								
Thallium	ND	1.00	"								
Vanadium	ND	1.00	"								
Zinc	ND	1.50	"								
Reference (BH80724-SRM1)								Prepared: 08/15/2018 Analyzed: 08/20/2018			
Aluminum	8270	5.00	mg/kg wet	8040		103	39.4-160.5				
Antimony	113	0.500	"	91.4		124	25.1-275.7				
Arsenic	164	1.00	"	146		112	69.9-132.9				
Barium	112	1.00	"	102		109	71.5-136.3				
Beryllium	152	0.100	"	134		113	75.4-138.1				
Cadmium	68.0	0.300	"	63.2		108	73.3-141.5				
Calcium	6610	5.00	"	5930		111	73.7-136.1				
Chromium	97.0	0.500	"	89.3		109	69.1-143.3				
Cobalt	141	0.500	"	119		118	74.6-142				
Copper	69.2	0.500	"	60.8		114	72.7-141.6				
Iron	14700	2.00	"	14400		102	35.6-163.9				
Lead	112	0.500	"	98.5		114	70.8-137.1				
Magnesium	2810	5.00	"	2580		109	63.6-136.1				
Manganese	420	0.500	"	370		113	75.7-134.3				
Nickel	82.5	0.500	"	66.6		124	70.7-146.3				
Potassium	2610	5.00	"	2340		111	59.8-140.2				
Selenium	129	1.00	"	136		94.5	67.1-136.8				
Silver	52.2	0.500	"	48.9		107	66.5-139.5				
Sodium	364	10.0	"	318		114	40.6-159.8				
Thallium	153	1.00	"	138		111	68-136.2				
Vanadium	72.2	1.00	"	69.7		104	58.9-141.8				
Zinc	195	1.50	"	177		110	69.5-131.1				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80935 - EPA 7473 soil											
Blank (BH80935-BLK1)								Prepared & Analyzed: 08/20/2018			
Mercury	ND	0.0300	mg/kg wet								
Reference (BH80935-SRM1)								Prepared & Analyzed: 08/20/2018			
Mercury	13.003		mg/kg	13.8		94.2	57.1-143.5				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18H0563-01	SB-1 (0'-2')	40mL Vial with Stir Bar-Cool 4° C
18H0563-02	SB-1 (21'-23')	40mL Vial with Stir Bar-Cool 4° C
18H0563-03	SB-2 (0'-2')	40mL Vial with Stir Bar-Cool 4° C
18H0563-04	SB-2 (21'-23')	40mL Vial with Stir Bar-Cool 4° C
18H0563-05	SB-3 (0'-2')	40mL Vial with Stir Bar-Cool 4° C
18H0563-06	SB-4 (0'-2')	40mL Vial with Stir Bar-Cool 4° C
18H0563-07	SB-4 (17'-19')	40mL Vial with Stir Bar-Cool 4° C
18H0563-08	SB-5 (0'-2')	40mL Vial with Stir Bar-Cool 4° C
18H0563-09	SB-5 (10'-12')	40mL Vial with Stir Bar-Cool 4° C
18H0563-10	SB-6 (0'-2')	40mL Vial with Stir Bar-Cool 4° C
18H0563-11	SB-6 (10'-12')	40mL Vial with Stir Bar-Cool 4° C
18H0563-12	SB-7 (0'-2')	40mL Vial with Stir Bar-Cool 4° C
18H0563-13	SB-7 (10'-12')	40mL Vial with Stir Bar-Cool 4° C
18H0563-14	SB-8 (0'-2')	40mL Vial with Stir Bar-Cool 4° C
18H0563-15	SB-8 (17'-19')	2 oz. WM Clear Glass Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

S-GC	Two surrogates are used for this analysis. One surrogate recovered within control limits therefore the analysis is acceptable.
S-08	The recovery of this surrogate was outside of QC limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QL-03	This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
M-MBLk	Analyte was detected in the batch method blank above the Reporting Limit.
M-CRL	The RL check for this element recovered outside of control limits.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
IS-LO	The internal std associated with this target compound did not meet acceptance criteria (area <50% CCV) at the stated dilution due to matrix effects. Sample was rerun to confirm matrix effects.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

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

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

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

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 18H0563

YOUR Information	Report To:	Invoice To:
Company: GEI Consultants	Company: GEI Consultants	Company:
Address: 110 Walt Whitman Road	Address: 110 Walt Whitman Road	Address: → same
Phone: 631-760-9300	Phone: 631-760-9300	Phone:
Contact: Wendy William J. Fitchett	Contact: Wendy Monteasso	Contact:
E-mail: wfitchett@geiconsultants.com	E-mail: wMonteasso@geiconsultants.com	E-mail:

YOUR Project Number:

YOUR Project Name: 580 Gerard Ave

YOUR PO#:

Turn-Around Time
- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard (5-7 Day) ✓

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

Samples Collected by: (print your name above and sign below)
William J. Fitchett
W J Fitchett

Matrix Codes
- S - soil / solid
- GW - groundwater
- DW - drinking water
- WW - wastewater
- O - Oil ⋮ Other

Samples From
- New York ✓
- New Jersey
- Connecticut
- Pennsylvania
- Other

Report / EDD Type (circle selections)
- Summary Report
- QA Report
- NY ASP A Package
- NY ASP B Package
- CT RCP
- CT RCP DQA/DUE
- NJDEP Reduced Deliverables
- NJDKQP
- Standard Excel EDD
- EQuIS (Standard)
- NYSDEC EQuIS
- NJDEP SRP HazSite
- Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB-1 (0'-2')	S	8/10/18 1540	TCL VOCs/SVOCs, TAL Metals, PCBs, Pesticides (8260) (8270) (8082) (8081)	Terracore Kit, one 4oz, one 8-oz jar
SB-1 (10'-12')	S	8/10/18 1600		
SB-2 (0'-2')	S	8/10/18 1021		
SB-2 (21'-23')	S	8/10/18 1055		
SB-3 (0'-2')	S	8/10/18 1430		
SB-4 (0'-2')	S	8/10/18 1315		
SB-4 (17'-19')	S	8/10/18 1325		
SB-5 (0'-2')	S	8/10/18 1125		
SB-5 (10'-12')	S	8/10/18 1145		
SB-6 (0'-2')	S	8/10/18 1207		

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: _____

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
W J Fitchett / GEI	8/13/18 1025AM	K Buch	8/13/18 1025AM	K Buch	8/13/18 1645
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				[illegible] 8-13-18	1645

Temp. Received at Lab: 1.6 Degrees C

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
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www.yorklab.com

YORK ANALYTICAL LABORATORIES INC

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 18H0563

YOUR Information	Report To:	Invoice To:
Company: GEI Consultants	Company: GEI Consultants	Company:
Address: 110 Walt Whitman Rd, Huntington Station, NY	Address: → same	Address: → (same)
Phone: 631-760-9300	Phone: → same	Phone:
Contact: William J. Fitchett	Contact: Wendy Monterosso	Contact:
E-mail: wfitchett@geiconsultants.com	E-mail: wmonterosso@geiconsultants.com	E-mail:

YOUR Project Number:

YOUR Project Name: 580 Gerard Ave

YOUR PO#:

Turn-Around Time

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

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

Samples Collected by: (print your name above and sign below)
William J. Fitchett
W J Fitchett

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil ⋮ Other

Samples From: New York ✓; New Jersey; Connecticut; Pennsylvania; Other

Report / EDD Type (circle selections): Summary Report; QA Report; NY ASP A Package; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB-6 (10'-12')	S	8/10/18 1225	TCL VOCs/SVOCs TAL Metals, PCBs, Pesticides (8260) (8270) (8082) (8081)	Terracore kit one 4oz, one 8oz
SB-7 (0'-2')	S	8/10/18 1415		
SB-7 (10'-12')	S	8/10/18 1346		
SB-8 (0'-2')	S	8/10/18 1620		
SB-8 (17'-19')	S	8/10/18 1635		

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: _____

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
W J Fitchett / GEI	8/13/18 1025AM	[illegible]	8/13/18 1025AM	[illegible]	8/13/18 1645
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				[illegible]	8-13-18 1645

Temp. Received at Lab: 1.6 Degrees C

Technical Report

prepared for:

GEI Consultants, Inc
110 Walt Whitman Road, Suite 204
Huntington Station NY, 11746
Attention: Wendy Monterosso

Report Date: 08/21/2018
Client Project ID: 580 Gerard Ave
York Project (SDG) No.: 18H0570

Report Date: 08/21/2018
Client Project ID: 580 Gerard Ave
York Project (SDG) No.: 18H0570

GEI Consultants, Inc
110 Walt Whitman Road, Suite 204
Huntington Station NY, 11746
Attention: Wendy Monterosso

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 13, 2018 and listed below. The project was identified as your project: **580 Gerard Ave**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
18H0570-01	SB-2 (GW)	Water	08/10/2018	08/13/2018
18H0570-02	Trip Blank	Water	08/10/2018	08/13/2018

General Notes for York Project (SDG) No.: 18H0570

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: **Date:** 08/21/2018

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **SB-2 (GW)** **York Sample ID:** **18H0570-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 5:15 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
95-63-6	**1,2,4-Trimethylbenzene**	**1200**		ug/L	2.0	5.0	10	EPA 8260C Certifications:	08/17/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/17/2018 13:44	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
108-67-8	**1,3,5-Trimethylbenzene**	**340**		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
123-91-1	1,4-Dioxane	ND		ug/L	200	1000	5	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
78-93-3	2-Butanone	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS
591-78-6	2-Hexanone	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 18:45	SS

Sample Information

Client Sample ID: **SB-2 (GW)** **York Sample ID:** **18H0570-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 5:15 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
67-64-1	Acetone	ND		ug/L	5.0	10	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
107-02-8	Acrolein	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	10	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
71-43-2	Benzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
74-97-5	Bromochloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
75-27-4	Bromodichloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
75-25-2	Bromoform	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
74-83-9	Bromomethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
75-15-0	Carbon disulfide	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
56-23-5	Carbon tetrachloride	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
108-90-7	Chlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
75-00-3	Chloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
67-66-3	**Chloroform**	**10**		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
74-87-3	Chloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
110-82-7	**Cyclohexane**	**95**		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
124-48-1	Dibromochloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
74-95-3	Dibromomethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
100-41-4	Ethyl Benzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS

Sample Information

Client Sample ID: **SB-2 (GW)** **York Sample ID:** **18H0570-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 5:15 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	**Isopropylbenzene**	**47**		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
79-20-9	Methyl acetate	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
108-87-2	**Methylcyclohexane**	**180**		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
75-09-2	Methylene chloride	ND		ug/L	5.0	10	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
104-51-8	**n-Butylbenzene**	**43**		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
103-65-1	**n-Propylbenzene**	**110**		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
95-47-6	o-Xylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
179601-23-1	**p- & m- Xylenes**	**3.2**	SCAL-E, J	ug/L	2.5	5.0	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
99-87-6	**p-Isopropyltoluene**	**7.2**		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
135-98-8	**sec-Butylbenzene**	**12**		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
100-42-5	Styrene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	2.5	12	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
98-06-6	tert-Butylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
127-18-4	Tetrachloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
108-88-3	**Toluene**	**1.6**	J	ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 07:30	08/16/2018 18:45	SS
79-01-6	Trichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
75-01-4	Vinyl Chloride	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 18:45	SS
1330-20-7	**Xylenes, Total**	**3.2**	J	ug/L	3.0	7.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 07:30	08/16/2018 18:45	SS

Sample Information

Client Sample ID: **SB-2 (GW)** **York Sample ID:** **18H0570-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 5:15 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

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

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*118 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*98.6 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*91.3 %*	*79-122*

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
95-57-8	2-Chlorophenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
91-57-6	**2-Methylnaphthalene**	**96.6**		ug/L	15.6	31.2	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/17/2018 13:01	KH

Sample Information

Client Sample ID: **SB-2 (GW)** **York Sample ID:** **18H0570-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 5:15 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
88-74-4	2-Nitroaniline	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
88-75-5	2-Nitrophenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
99-09-2	3-Nitroaniline	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
106-47-8	4-Chloroaniline	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
100-01-6	4-Nitroaniline	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
100-02-7	4-Nitrophenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
83-32-9	**Acenaphthene**	**0.100**		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
98-86-2	Acetophenone	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
62-53-3	Aniline	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
120-12-7	Anthracene	ND		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
1912-24-9	Atrazine	ND		ug/L	0.625	0.625	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
100-52-7	Benzaldehyde	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
92-87-5	Benzidine	ND		ug/L	12.5	25.0	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR

Sample Information

Client Sample ID: **SB-2 (GW)** **York Sample ID:** **18H0570-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 5:15 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
65-85-0	Benzoic acid	ND		ug/L	31.2	62.5	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
100-51-6	Benzyl alcohol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.750**		ug/L	0.625	0.625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
105-60-2	Caprolactam	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
86-74-8	Carbazole	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
218-01-9	Chrysene	ND		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
132-64-9	Dibenzofuran	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
84-66-2	Diethyl phthalate	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
131-11-3	Dimethyl phthalate	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
206-44-0	Fluoranthene	ND		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
86-73-7	**Fluorene**	**0.100**		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0250	0.0250	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	0.625	0.625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR

Sample Information

Client Sample ID: **SB-2 (GW)** **York Sample ID:** **18H0570-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 5:15 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
67-72-1	Hexachloroethane	ND		ug/L	0.625	0.625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
78-59-1	Isophorone	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
91-20-3	**Naphthalene**	**19.6**		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
98-95-3	Nitrobenzene	ND		ug/L	0.312	0.312	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.625	0.625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.312	0.312	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
85-01-8	**Phenanthrene**	**0.150**		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 10:11	SR
108-95-2	Phenol	ND		ug/L	3.12	6.25	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH
129-00-0	Pyrene	ND		ug/L	0.0625	0.0625	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 17:39	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*42.1 %*	*19.7-63.1*
4165-62-2	*Surrogate: Phenol-d5*	*25.3 %*	*10.1-41.7*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*80.3 %*	*50.2-113*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*84.4 %*	*39.9-105*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*94.1 %*	*39.3-151*
1718-51-0	*Surrogate: Terphenyl-d14*	*101 %*	*30.7-106*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:** **EXT-EM**

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

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
72-55-9	4,4'-DDE	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
50-29-3	4,4'-DDT	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB

Sample Information

Client Sample ID: **SB-2 (GW)** **York Sample ID:** **18H0570-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 5:15 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:** EXT-EM

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

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
319-84-6	alpha-BHC	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
5103-71-9	alpha-Chlordane	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
319-85-7	beta-BHC	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
57-74-9	Chlordane, total	ND		ug/L	0.0229	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
319-86-8	delta-BHC	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
60-57-1	Dieldrin	ND		ug/L	0.00229	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
959-98-8	Endosulfan I	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
33213-65-9	Endosulfan II	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
72-20-8	Endrin	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
7421-93-4	Endrin aldehyde	ND		ug/L	0.0114	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
53494-70-5	Endrin ketone	ND		ug/L	0.0114	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
5566-34-7	gamma-Chlordane	ND		ug/L	0.0114	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
76-44-8	Heptachlor	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
72-43-5	Methoxychlor	ND		ug/L	0.00457	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB
8001-35-2	Toxaphene	ND		ug/L	0.114	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/20/2018 15:05	LAB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*59.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*47.2 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:** EXT-EM

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

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

Sample Information

Client Sample ID: **SB-2 (GW)** **York Sample ID:** **18H0570-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 5:15 pm	08/13/2018

12674-11-2	Aroclor 1016	ND	ug/L	0.0571	1	EPA 8082A Certifications:	08/14/2018 08:21 NELAC-NY10854,CTDOH,NJDEP,PADEP	08/20/2018 14:47	LAB
11104-28-2	Aroclor 1221	ND	ug/L	0.0571	1	EPA 8082A Certifications:	08/14/2018 08:21 NELAC-NY10854,CTDOH,NJDEP,PADEP	08/20/2018 14:47	LAB
11141-16-5	Aroclor 1232	ND	ug/L	0.0571	1	EPA 8082A Certifications:	08/14/2018 08:21 NELAC-NY10854,CTDOH,NJDEP,PADEP	08/20/2018 14:47	LAB
53469-21-9	Aroclor 1242	ND	ug/L	0.0571	1	EPA 8082A Certifications:	08/14/2018 08:21 NELAC-NY10854,CTDOH,NJDEP,PADEP	08/20/2018 14:47	LAB
12672-29-6	Aroclor 1248	ND	ug/L	0.0571	1	EPA 8082A Certifications:	08/14/2018 08:21 NELAC-NY10854,CTDOH,NJDEP,PADEP	08/20/2018 14:47	LAB
11097-69-1	Aroclor 1254	ND	ug/L	0.0571	1	EPA 8082A Certifications:	08/14/2018 08:21 NELAC-NY10854,CTDOH,NJDEP,PADEP	08/20/2018 14:47	LAB
11096-82-5	Aroclor 1260	ND	ug/L	0.0571	1	EPA 8082A Certifications:	08/14/2018 08:21 NELAC-NY10854,CTDOH,NJDEP,PADEP	08/20/2018 14:47	LAB
1336-36-3	* Total PCBs	ND	ug/L	0.0571	1	EPA 8082A Certifications:	08/14/2018 08:21	08/20/2018 14:47	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*62.9 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*%*	*30-120*

Metals, TAL, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**830**		ug/L	10.0	1	EPA 6020A Certifications:	08/15/2018 10:59 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/21/2018 18:43	ZZZ
7440-36-0	Antimony	ND		ug/L	1.00	1	EPA 6020A Certifications:	08/15/2018 10:59 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/21/2018 18:43	ZZZ
7440-38-2	Arsenic	ND		ug/L	1.00	1	EPA 6020A Certifications:	08/15/2018 10:59 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/21/2018 18:43	ZZZ
7440-39-3	**Barium**	**68.0**		ug/L	1.00	1	EPA 6020A Certifications:	08/15/2018 10:59 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/21/2018 18:43	ZZZ
7440-41-7	Beryllium	ND		ug/L	0.300	1	EPA 6020A Certifications:	08/15/2018 10:59 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/21/2018 18:43	ZZZ
7440-43-9	**Cadmium**	**0.746**		ug/L	0.500	1	EPA 6020A Certifications:	08/15/2018 10:59 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/21/2018 18:43	ZZZ
7440-47-3	**Chromium**	**4.79**		ug/L	1.00	1	EPA 6020A Certifications:	08/15/2018 10:59 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/21/2018 18:43	ZZZ
7440-48-4	**Cobalt**	**2.94**		ug/L	1.00	1	EPA 6020A Certifications:	08/15/2018 10:59 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/21/2018 18:43	ZZZ
7440-50-8	**Copper**	**11.0**		ug/L	1.00	1	EPA 6020A Certifications:	08/15/2018 10:59 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/21/2018 18:43	ZZZ
7439-89-6	**Iron**	**1730**	B	ug/L	10.0	1	EPA 6020A Certifications:	08/15/2018 10:59 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/21/2018 18:43	ZZZ
7439-92-1	**Lead**	**22.3**		ug/L	1.00	1	EPA 6020A Certifications:	08/15/2018 10:59 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/21/2018 18:43	ZZZ
7439-96-5	**Manganese**	**111**		ug/L	1.00	1	EPA 6020A Certifications:	08/15/2018 10:59 CTDOH,NELAC-NY10854,NJDEP,PADEP	08/21/2018 18:43	ZZZ

Sample Information

Client Sample ID: **SB-2 (GW)** **York Sample ID:** **18H0570-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 5:15 pm	08/13/2018

Metals, TAL, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	**Nickel**	**3.40**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:43	ZZZ
7782-49-2	Selenium	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:43	ZZZ
7440-22-4	Silver	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:43	ZZZ
7440-28-0	Thallium	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:43	ZZZ
7440-62-2	**Vanadium**	**3.51**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:43	ZZZ
7440-66-6	**Zinc**	**19.9**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:43	ZZZ

Metals, TAL, ICPMS Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**396**		ug/L	10.0	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7440-36-0	Antimony	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7440-38-2	Arsenic	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7440-39-3	**Barium**	**68.7**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7440-41-7	Beryllium	ND		ug/L	0.300	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7440-43-9	**Cadmium**	**0.760**		ug/L	0.500	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7440-47-3	**Chromium**	**3.17**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7440-48-4	**Cobalt**	**2.51**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7440-50-8	**Copper**	**6.75**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7439-89-6	**Iron**	**1290**		ug/L	10.0	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7439-92-1	**Lead**	**19.6**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7439-96-5	**Manganese**	**105**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7440-02-0	**Nickel**	**2.42**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7782-49-2	Selenium	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML

Sample Information

Client Sample ID: **SB-2 (GW)** **York Sample ID:** **18H0570-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 5:15 pm	08/13/2018

Metals, TAL, ICPMS Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7440-28-0	Thallium	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7440-62-2	**Vanadium**	**1.40**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML
7440-66-6	**Zinc**	**18.8**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:55	BML

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		ug/L	0.20	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/20/2018 09:12	08/20/2018 14:26	SY

Mercury by 7473, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/20/2018 09:14	08/20/2018 12:24	SY

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **18H0570-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 3:00 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **18H0570-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 3:00 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	200	1	EPA 8260C Certifications:	08/15/2018 15:52 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/15/2018 15:52 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 01:04	SS

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **18H0570-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 3:00 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **18H0570-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0570	580 Gerard Ave	Water	August 10, 2018 3:00 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	2.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/15/2018 15:52	08/16/2018 01:04	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/15/2018 15:52	08/16/2018 01:04	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/15/2018 15:52	08/16/2018 01:04	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*103 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*101 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*106 %*	*79-122*

Analytical Batch Summary

Batch ID: BH80646 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
18H0570-01	SB-2 (GW)	08/14/18
18H0570-01	SB-2 (GW)	08/14/18
BH80646-BLK1	Blank	08/14/18
BH80646-BLK2	Blank	08/14/18
BH80646-BS1	LCS	08/14/18
BH80646-BS2	LCS	08/14/18
BH80646-BSD2	LCS Dup	08/14/18

Batch ID: BH80648 **Preparation Method:** EPA 3510C **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
18H0570-01	SB-2 (GW)	08/14/18
18H0570-01RE1	SB-2 (GW)	08/14/18
BH80648-BLK1	Blank	08/14/18
BH80648-BLK2	Blank	08/14/18
BH80648-BS1	LCS	08/14/18
BH80648-BS2	LCS	08/14/18
BH80648-BSD1	LCS Dup	08/14/18

Batch ID: BH80751 **Preparation Method:** EPA 3015A **Prepared By:** BML

YORK Sample ID	Client Sample ID	Preparation Date
18H0570-01	SB-2 (GW)	08/15/18
BH80751-BLK1	Blank	08/15/18
BH80751-BS1	LCS	08/15/18

Batch ID: BH80752 **Preparation Method:** EPA 3015A **Prepared By:** BML

YORK Sample ID	Client Sample ID	Preparation Date
18H0570-01	SB-2 (GW)	08/15/18
BH80752-BLK1	Blank	08/15/18
BH80752-BS1	LCS	08/15/18

Batch ID: BH80772 **Preparation Method:** EPA 5030B **Prepared By:** RDS

YORK Sample ID	Client Sample ID	Preparation Date
18H0570-02	Trip Blank	08/15/18
BH80772-BLK1	Blank	08/15/18
BH80772-BS1	LCS	08/15/18
BH80772-BSD1	LCS Dup	08/15/18

Batch ID: BH80792 **Preparation Method:** EPA 5030B **Prepared By:** TAB

YORK Sample ID	Client Sample ID	Preparation Date
18H0570-01	SB-2 (GW)	08/16/18
BH80792-BLK1	Blank	08/16/18
BH80792-BS1	LCS	08/16/18
BH80792-BSD1	LCS Dup	08/16/18

Batch ID: BH80893 **Preparation Method:** EPA 5030B **Prepared By:** RDS

YORK Sample ID	Client Sample ID	Preparation Date
18H0570-01RE1	SB-2 (GW)	08/17/18
BH80893-BLK1	Blank	08/17/18
BH80893-BS1	LCS	08/17/18
BH80893-BSD1	LCS Dup	08/17/18

Batch ID: BH80937 **Preparation Method:** EPA 7473 water **Prepared By:** KML

YORK Sample ID	Client Sample ID	Preparation Date
18H0570-01	SB-2 (GW)	08/20/18
BH80937-BLK1	Blank	08/20/18
BH80937-SRM1	Reference	08/20/18

Batch ID: BH80938 **Preparation Method:** EPA 7473 water **Prepared By:** KML

YORK Sample ID	Client Sample ID	Preparation Date
18H0570-01	SB-2 (GW)	08/20/18
BH80938-BLK1	Blank	08/20/18
BH80938-SRM1	Reference	08/20/18

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80772 - EPA 5030B											
Blank (BH80772-BLK1)									Prepared: 08/15/2018 Analyzed: 08/16/2018		
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80772 - EPA 5030B											
Blank (BH80772-BLK1)								Prepared: 08/15/2018 Analyzed: 08/16/2018			
n-Butylbenzene	ND	0.50	ug/L								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: 1,2-Dichloroethane-d4	*10.8*		*"*	*10.0*		*108*	*69-130*				
Surrogate: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*79-122*				
LCS (BH80772-BS1)								Prepared & Analyzed: 08/15/2018			
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		102	82-126				
1,1,1-Trichloroethane	9.9		"	10.0		99.4	78-136				
1,1,2,2-Tetrachloroethane	9.6		"	10.0		95.8	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10		"	10.0		99.9	54-165				
1,1,2-Trichloroethane	9.7		"	10.0		97.4	82-123				
1,1-Dichloroethane	10		"	10.0		103	82-129				
1,1-Dichloroethylene	10		"	10.0		101	68-138				
1,2,3-Trichlorobenzene	10		"	10.0		103	76-136				
1,2,3-Trichloropropane	9.8		"	10.0		98.2	77-128				
1,2,4-Trichlorobenzene	9.8		"	10.0		97.6	76-137				
1,2,4-Trimethylbenzene	10		"	10.0		102	82-132				
1,2-Dibromo-3-chloropropane	9.7		"	10.0		97.3	45-147				
1,2-Dibromoethane	9.8		"	10.0		98.3	83-124				
1,2-Dichlorobenzene	9.9		"	10.0		98.7	79-123				
1,2-Dichloroethane	11		"	10.0		107	73-132				
1,2-Dichloropropane	10		"	10.0		100	78-126				
1,3,5-Trimethylbenzene	10		"	10.0		103	80-131				
1,3-Dichlorobenzene	9.9		"	10.0		98.8	86-122				
1,4-Dichlorobenzene	9.7		"	10.0		96.7	85-124				
1,4-Dioxane	250		"	210		120	10-349				
2-Butanone	10		"	10.0		102	49-152				
2-Hexanone	11		"	10.0		106	51-146				
4-Methyl-2-pentanone	11		"	10.0		109	57-145				
Acetone	11		"	10.0		108	14-150				
Acrolein	7.1		"	10.0		70.8	10-153				
Acrylonitrile	7.9		"	10.0		79.0	51-150				
Benzene	9.8		"	10.0		98.5	85-126				
Bromochloromethane	10		"	10.0		102	77-128				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80772 - EPA 5030B											
LCS (BH80772-BS1)							Prepared & Analyzed: 08/15/2018				
Bromodichloromethane	10		ug/L	10.0		101	79-128				
Bromoform	9.6		"	10.0		96.4	78-133				
Bromomethane	9.2		"	10.0		91.7	43-168				
Carbon disulfide	10		"	10.0		104	68-146				
Carbon tetrachloride	10		"	10.0		99.7	77-141				
Chlorobenzene	10		"	10.0		101	88-120				
Chloroethane	9.6		"	10.0		95.5	65-136				
Chloroform	9.9		"	10.0		98.6	82-128				
Chloromethane	9.1		"	10.0		90.7	43-155				
cis-1,2-Dichloroethylene	9.9		"	10.0		99.1	83-129				
cis-1,3-Dichloropropylene	9.9		"	10.0		99.1	80-131				
Cyclohexane	10		"	10.0		104	63-149				
Dibromochloromethane	10		"	10.0		102	80-130				
Dibromomethane	10		"	10.0		100	72-134				
Dichlorodifluoromethane	9.4		"	10.0		94.5	44-144				
Ethyl Benzene	10		"	10.0		105	80-131				
Hexachlorobutadiene	10		"	10.0		103	67-146				
Isopropylbenzene	10		"	10.0		100	76-140				
Methyl acetate	10		"	10.0		102	51-139				
Methyl tert-butyl ether (MTBE)	11		"	10.0		106	76-135				
Methylcyclohexane	10		"	10.0		102	72-143				
Methylene chloride	11		"	10.0		109	55-137				
n-Butylbenzene	10		"	10.0		105	79-132				
n-Propylbenzene	10		"	10.0		104	78-133				
o-Xylene	11		"	10.0		106	78-130				
p- & m- Xylenes	19		"	20.0		94.6	77-133				
p-Isopropyltoluene	10		"	10.0		104	81-136				
sec-Butylbenzene	11		"	10.0		108	79-137				
Styrene	10		"	10.0		101	67-132				
tert-Butyl alcohol (TBA)	52		"	50.0		104	25-162				
tert-Butylbenzene	10		"	10.0		102	77-138				
Tetrachloroethylene	7.3		"	10.0		73.4	82-131	Low Bias			
Toluene	10		"	10.0		102	80-127				
trans-1,2-Dichloroethylene	10		"	10.0		102	80-132				
trans-1,3-Dichloropropylene	9.7		"	10.0		97.1	78-131				
trans-1,4-dichloro-2-butene	9.7		"	10.0		97.4	63-141				
Trichloroethylene	11		"	10.0		106	82-128				
Trichlorofluoromethane	9.8		"	10.0		97.5	67-139				
Vinyl Chloride	9.7		"	10.0		97.1	58-145				
Surrogate: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*69-130*				
Surrogate: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.0*		*"*	*10.0*		*100*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80772 - EPA 5030B											
LCS Dup (BH80772-BSD1)							Prepared & Analyzed: 08/15/2018				
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		101	82-126		1.28	30	
1,1,1-Trichloroethane	10		"	10.0		104	78-136		4.43	30	
1,1,2,2-Tetrachloroethane	9.5		"	10.0		94.7	76-129		1.15	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		106	54-165		5.64	30	
1,1,2-Trichloroethane	9.7		"	10.0		96.9	82-123		0.515	30	
1,1-Dichloroethane	10		"	10.0		104	82-129		1.25	30	
1,1-Dichloroethylene	11		"	10.0		106	68-138		5.41	30	
1,2,3-Trichlorobenzene	9.9		"	10.0		98.7	76-136		3.97	30	
1,2,3-Trichloropropane	9.6		"	10.0		96.2	77-128		2.06	30	
1,2,4-Trichlorobenzene	9.4		"	10.0		94.1	76-137		3.65	30	
1,2,4-Trimethylbenzene	10		"	10.0		101	82-132		1.08	30	
1,2-Dibromo-3-chloropropane	9.9		"	10.0		98.6	45-147		1.33	30	
1,2-Dibromoethane	9.8		"	10.0		98.5	83-124		0.203	30	
1,2-Dichlorobenzene	9.8		"	10.0		98.1	79-123		0.610	30	
1,2-Dichloroethane	11		"	10.0		107	73-132		0.0933	30	
1,2-Dichloropropane	9.8		"	10.0		98.1	78-126		2.22	30	
1,3,5-Trimethylbenzene	10		"	10.0		102	80-131		0.0975	30	
1,3-Dichlorobenzene	9.7		"	10.0		96.7	86-122		2.15	30	
1,4-Dichlorobenzene	9.5		"	10.0		95.3	85-124		1.46	30	
1,4-Dioxane	310		"	210		148	10-349		20.8	30	
2-Butanone	10		"	10.0		105	49-152		2.51	30	
2-Hexanone	11		"	10.0		108	51-146		2.06	30	
4-Methyl-2-pentanone	11		"	10.0		109	57-145		0.0920	30	
Acetone	12		"	10.0		117	14-150		8.00	30	
Acrolein	7.2		"	10.0		72.1	10-153		1.82	30	
Acrylonitrile	9.1		"	10.0		91.0	51-150		14.1	30	
Benzene	10		"	10.0		100	85-126		1.61	30	
Bromochloromethane	10		"	10.0		101	77-128		1.08	30	
Bromodichloromethane	9.9		"	10.0		98.9	79-128		2.50	30	
Bromoform	9.8		"	10.0		97.9	78-133		1.54	30	
Bromomethane	8.9		"	10.0		88.6	43-168		3.44	30	
Carbon disulfide	11		"	10.0		109	68-146		4.59	30	
Carbon tetrachloride	11		"	10.0		106	77-141		5.94	30	
Chlorobenzene	10		"	10.0		101	88-120		0.0993	30	
Chloroethane	9.9		"	10.0		98.7	65-136		3.30	30	
Chloroform	10		"	10.0		99.9	82-128		1.31	30	
Chloromethane	9.2		"	10.0		91.8	43-155		1.21	30	
cis-1,2-Dichloroethylene	9.8		"	10.0		98.2	83-129		0.912	30	
cis-1,3-Dichloropropylene	9.7		"	10.0		96.6	80-131		2.55	30	
Cyclohexane	11		"	10.0		111	63-149		6.49	30	
Dibromochloromethane	10		"	10.0		101	80-130		0.989	30	
Dibromomethane	9.9		"	10.0		98.9	72-134		1.11	30	
Dichlorodifluoromethane	10		"	10.0		99.6	44-144		5.26	30	
Ethyl Benzene	11		"	10.0		105	80-131		0.476	30	
Hexachlorobutadiene	10		"	10.0		103	67-146		0.291	30	
Isopropylbenzene	10		"	10.0		102	76-140		1.78	30	
Methyl acetate	9.6		"	10.0		95.5	51-139		6.29	30	
Methyl tert-butyl ether (MTBE)	11		"	10.0		106	76-135		0.754	30	
Methylcyclohexane	11		"	10.0		108	72-143		5.24	30	
Methylene chloride	11		"	10.0		108	55-137		0.831	30	
n-Butylbenzene	11		"	10.0		105	79-132		0.666	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80772 - EPA 5030B											
LCS Dup (BH80772-BSD1)								Prepared & Analyzed: 08/15/2018			
n-Propylbenzene	10		ug/L	10.0		104	78-133		0.577	30	
o-Xylene	11		"	10.0		105	78-130		0.946	30	
p- & m- Xylenes	19		"	20.0		93.6	77-133		1.01	30	
p-Isopropyltoluene	11		"	10.0		105	81-136		1.43	30	
sec-Butylbenzene	11		"	10.0		109	79-137		1.57	30	
Styrene	10		"	10.0		99.9	67-132		0.996	30	
tert-Butyl alcohol (TBA)	57		"	50.0		113	25-162		8.43	30	
tert-Butylbenzene	10		"	10.0		102	77-138		0.685	30	
Tetrachloroethylene	7.5		"	10.0		75.0	82-131	Low Bias	2.16	30	
Toluene	10		"	10.0		102	80-127		0.0982	30	
trans-1,2-Dichloroethylene	10		"	10.0		104	80-132		1.94	30	
trans-1,3-Dichloropropylene	9.4		"	10.0		94.5	78-131		2.71	30	
trans-1,4-dichloro-2-butene	9.5		"	10.0		95.4	63-141		2.07	30	
Trichloroethylene	11		"	10.0		106	82-128		0.378	30	
Trichlorofluoromethane	11		"	10.0		109	67-139		11.0	30	
Vinyl Chloride	10		"	10.0		102	58-145		5.22	30	
Surrogate: 1,2-Dichloroethane-d4	*10.5*		*"*	*10.0*		*105*	*69-130*				
Surrogate: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.0*		*"*	*10.0*		*100*	*79-122*				
Batch BH80792 - EPA 5030B											
Blank (BH80792-BLK1)								Prepared & Analyzed: 08/16/2018			
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80792 - EPA 5030B											
Blank (BH80792-BLK1)								Prepared & Analyzed: 08/16/2018			
Bromodichloromethane	ND	0.50	ug/L								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: 1,2-Dichloroethane-d4	*10.8*		*"*	*10.0*		*108*	*69-130*				
Surrogate: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80792 - EPA 5030B											
LCS (BH80792-BS1)							Prepared & Analyzed: 08/16/2018				
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		103	82-126				
1,1,1-Trichloroethane	11		"	10.0		106	78-136				
1,1,2,2-Tetrachloroethane	10		"	10.0		104	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		116	54-165				
1,1,2-Trichloroethane	9.7		"	10.0		96.9	82-123				
1,1-Dichloroethane	11		"	10.0		108	82-129				
1,1-Dichloroethylene	11		"	10.0		109	68-138				
1,2,3-Trichlorobenzene	11		"	10.0		109	76-136				
1,2,3-Trichloropropane	10		"	10.0		103	77-128				
1,2,4-Trichlorobenzene	10		"	10.0		99.9	76-137				
1,2,4-Trimethylbenzene	11		"	10.0		105	82-132				
1,2-Dibromo-3-chloropropane	10		"	10.0		103	45-147				
1,2-Dibromoethane	10		"	10.0		100	83-124				
1,2-Dichlorobenzene	10		"	10.0		101	79-123				
1,2-Dichloroethane	11		"	10.0		107	73-132				
1,2-Dichloropropane	10		"	10.0		100	78-126				
1,3,5-Trimethylbenzene	11		"	10.0		106	80-131				
1,3-Dichlorobenzene	10		"	10.0		99.9	86-122				
1,4-Dichlorobenzene	9.9		"	10.0		98.9	85-124				
1,4-Dioxane	350		"	210		165	10-349				
2-Butanone	11		"	10.0		114	49-152				
2-Hexanone	11		"	10.0		108	51-146				
4-Methyl-2-pentanone	11		"	10.0		108	57-145				
Acetone	10		"	10.0		101	14-150				
Acrolein	18		"	10.0		184	10-153	High Bias			
Acrylonitrile	8.5		"	10.0		84.8	51-150				
Benzene	10		"	10.0		102	85-126				
Bromochloromethane	11		"	10.0		105	77-128				
Bromodichloromethane	10		"	10.0		100	79-128				
Bromoform	10		"	10.0		99.6	78-133				
Bromomethane	10		"	10.0		99.8	43-168				
Carbon disulfide	12		"	10.0		120	68-146				
Carbon tetrachloride	11		"	10.0		109	77-141				
Chlorobenzene	10		"	10.0		102	88-120				
Chloroethane	9.6		"	10.0		96.1	65-136				
Chloroform	10		"	10.0		102	82-128				
Chloromethane	10		"	10.0		104	43-155				
cis-1,2-Dichloroethylene	11		"	10.0		106	83-129				
cis-1,3-Dichloropropylene	10		"	10.0		102	80-131				
Cyclohexane	12		"	10.0		116	63-149				
Dibromochloromethane	10		"	10.0		99.6	80-130				
Dibromomethane	10		"	10.0		101	72-134				
Dichlorodifluoromethane	14		"	10.0		141	44-144				
Ethyl Benzene	11		"	10.0		107	80-131				
Hexachlorobutadiene	11		"	10.0		107	67-146				
Isopropylbenzene	10		"	10.0		105	76-140				
Methyl acetate	10		"	10.0		102	51-139				
Methyl tert-butyl ether (MTBE)	11		"	10.0		111	76-135				
Methylcyclohexane	11		"	10.0		112	72-143				
Methylene chloride	11		"	10.0		112	55-137				
n-Butylbenzene	11		"	10.0		111	79-132				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80792 - EPA 5030B											
LCS (BH80792-BS1)								Prepared & Analyzed: 08/16/2018			
n-Propylbenzene	11		ug/L	10.0		109	78-133				
o-Xylene	11		"	10.0		107	78-130				
p- & m- Xylenes	19		"	20.0		96.1	77-133				
p-Isopropyltoluene	11		"	10.0		109	81-136				
sec-Butylbenzene	11		"	10.0		114	79-137				
Styrene	10		"	10.0		103	67-132				
tert-Butyl alcohol (TBA)	57		"	50.0		115	25-162				
tert-Butylbenzene	11		"	10.0		106	77-138				
Tetrachloroethylene	7.6		"	10.0		76.5	82-131	Low Bias			
Toluene	10		"	10.0		104	80-127				
trans-1,2-Dichloroethylene	11		"	10.0		109	80-132				
trans-1,3-Dichloropropylene	10		"	10.0		101	78-131				
trans-1,4-dichloro-2-butene	10		"	10.0		102	63-141				
Trichloroethylene	10		"	10.0		104	82-128				
Trichlorofluoromethane	10		"	10.0		100	67-139				
Vinyl Chloride	11		"	10.0		107	58-145				
Surrogate: 1,2-Dichloroethane-d4	*10.3*		*"*	*10.0*		*103*	*69-130*				
Surrogate: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*79-122*				
LCS Dup (BH80792-BSD1)								Prepared & Analyzed: 08/16/2018			
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		102	82-126		0.681	30	
1,1,1-Trichloroethane	10		"	10.0		101	78-136		4.53	30	
1,1,2,2-Tetrachloroethane	10		"	10.0		100	76-129		3.42	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		107	54-165		8.42	30	
1,1,2-Trichloroethane	9.8		"	10.0		98.2	82-123		1.33	30	
1,1-Dichloroethane	10		"	10.0		105	82-129		3.10	30	
1,1-Dichloroethylene	9.8		"	10.0		98.2	68-138		10.6	30	
1,2,3-Trichlorobenzene	10		"	10.0		104	76-136		5.07	30	
1,2,3-Trichloropropane	9.8		"	10.0		98.3	77-128		4.57	30	
1,2,4-Trichlorobenzene	9.8		"	10.0		98.1	76-137		1.82	30	
1,2,4-Trimethylbenzene	10		"	10.0		102	82-132		2.70	30	
1,2-Dibromo-3-chloropropane	9.9		"	10.0		99.0	45-147		4.06	30	
1,2-Dibromoethane	10		"	10.0		99.8	83-124		0.400	30	
1,2-Dichlorobenzene	9.9		"	10.0		99.2	79-123		1.60	30	
1,2-Dichloroethane	11		"	10.0		106	73-132		0.844	30	
1,2-Dichloropropane	10		"	10.0		101	78-126		0.397	30	
1,3,5-Trimethylbenzene	10		"	10.0		103	80-131		2.87	30	
1,3-Dichlorobenzene	9.8		"	10.0		98.4	86-122		1.51	30	
1,4-Dichlorobenzene	9.8		"	10.0		97.5	85-124		1.43	30	
1,4-Dioxane	170		"	210		81.1	10-349		68.1	30	Non-dir.
2-Butanone	9.6		"	10.0		95.7	49-152		17.5	30	
2-Hexanone	10		"	10.0		105	51-146		2.92	30	
4-Methyl-2-pentanone	11		"	10.0		106	57-145		2.71	30	
Acetone	8.9		"	10.0		89.2	14-150		12.0	30	
Acrolein	18		"	10.0		178	10-153	High Bias	3.38	30	
Acrylonitrile	7.6		"	10.0		76.2	51-150		10.7	30	
Benzene	10		"	10.0		101	85-126		1.18	30	
Bromochloromethane	10		"	10.0		104	77-128		1.53	30	
Bromodichloromethane	10		"	10.0		101	79-128		0.596	30	
Bromoform	9.8		"	10.0		98.4	78-133		1.21	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80792 - EPA 5030B											
LCS Dup (BH80792-BSD1)								Prepared & Analyzed: 08/16/2018			
Bromomethane	9.5		ug/L	10.0		94.6	43-168		5.35	30	
Carbon disulfide	11		"	10.0		113	68-146		6.36	30	
Carbon tetrachloride	10		"	10.0		104	77-141		4.89	30	
Chlorobenzene	10		"	10.0		101	88-120		1.08	30	
Chloroethane	9.1		"	10.0		90.8	65-136		5.67	30	
Chloroform	10		"	10.0		100	82-128		1.39	30	
Chloromethane	10		"	10.0		102	43-155		1.85	30	
cis-1,2-Dichloroethylene	10		"	10.0		104	83-129		1.24	30	
cis-1,3-Dichloropropylene	10		"	10.0		101	80-131		0.494	30	
Cyclohexane	11		"	10.0		110	63-149		5.51	30	
Dibromochloromethane	10		"	10.0		102	80-130		2.18	30	
Dibromomethane	10		"	10.0		100	72-134		0.598	30	
Dichlorodifluoromethane	13		"	10.0		132	44-144		6.65	30	
Ethyl Benzene	11		"	10.0		105	80-131		1.70	30	
Hexachlorobutadiene	10		"	10.0		104	67-146		2.94	30	
Isopropylbenzene	10		"	10.0		102	76-140		2.61	30	
Methyl acetate	9.2		"	10.0		92.3	51-139		9.79	30	
Methyl tert-butyl ether (MTBE)	11		"	10.0		108	76-135		2.01	30	
Methylcyclohexane	11		"	10.0		107	72-143		4.31	30	
Methylene chloride	11		"	10.0		106	55-137		5.40	30	
n-Butylbenzene	11		"	10.0		108	79-132		2.74	30	
n-Propylbenzene	10		"	10.0		105	78-133		3.75	30	
o-Xylene	11		"	10.0		106	78-130		1.69	30	
p- & m- Xylenes	19		"	20.0		94.3	77-133		1.89	30	
p-Isopropyltoluene	10		"	10.0		105	81-136		3.65	30	
sec-Butylbenzene	11		"	10.0		109	79-137		4.23	30	
Styrene	10		"	10.0		100	67-132		2.17	30	
tert-Butyl alcohol (TBA)	43		"	50.0		86.2	25-162		28.4	30	
tert-Butylbenzene	10		"	10.0		103	77-138		3.73	30	
Tetrachloroethylene	7.4		"	10.0		73.9	82-131	Low Bias	3.46	30	
Toluene	10		"	10.0		102	80-127		2.13	30	
trans-1,2-Dichloroethylene	11		"	10.0		106	80-132		3.36	30	
trans-1,3-Dichloropropylene	10		"	10.0		101	78-131		0.198	30	
trans-1,4-dichloro-2-butene	10		"	10.0		99.9	63-141		1.98	30	
Trichloroethylene	10		"	10.0		101	82-128		2.24	30	
Trichlorofluoromethane	9.3		"	10.0		92.9	67-139		7.56	30	
Vinyl Chloride	10		"	10.0		100	58-145		6.19	30	
Surrogate: 1,2-Dichloroethane-d4	*10.4*		*"*	*10.0*		*104*	*69-130*				
Surrogate: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*81-117*				
Surrogate: p-Bromofluorobenzene	*9.98*		*"*	*10.0*		*99.8*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80893 - EPA 5030B											
Blank (BH80893-BLK1)								Prepared & Analyzed: 08/17/2018			
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80893 - EPA 5030B											
Blank (BH80893-BLK1)								Prepared & Analyzed: 08/17/2018			
n-Propylbenzene	ND	0.50	ug/L								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: 1,2-Dichloroethane-d4	*9.89*		*"*	*10.0*		*98.9*	*69-130*				
Surrogate: Toluene-d8	*9.55*		*"*	*10.0*		*95.5*	*81-117*				
Surrogate: p-Bromofluorobenzene	*9.63*		*"*	*10.0*		*96.3*	*79-122*				
LCS (BH80893-BS1)								Prepared & Analyzed: 08/17/2018			
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		104	82-126				
1,1,1-Trichloroethane	11		"	10.0		111	78-136				
1,1,2,2-Tetrachloroethane	9.1		"	10.0		91.4	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	14		"	10.0		137	54-165				
1,1,2-Trichloroethane	9.5		"	10.0		94.7	82-123				
1,1-Dichloroethane	11		"	10.0		110	82-129				
1,1-Dichloroethylene	12		"	10.0		115	68-138				
1,2,3-Trichlorobenzene	11		"	10.0		114	76-136				
1,2,3-Trichloropropane	9.1		"	10.0		91.4	77-128				
1,2,4-Trichlorobenzene	11		"	10.0		109	76-137				
1,2,4-Trimethylbenzene	9.9		"	10.0		99.4	82-132				
1,2-Dibromo-3-chloropropane	8.7		"	10.0		87.2	45-147				
1,2-Dibromoethane	9.7		"	10.0		96.9	83-124				
1,2-Dichlorobenzene	10		"	10.0		99.5	79-123				
1,2-Dichloroethane	10		"	10.0		99.8	73-132				
1,2-Dichloropropane	9.3		"	10.0		92.7	78-126				
1,3,5-Trimethylbenzene	10		"	10.0		102	80-131				
1,3-Dichlorobenzene	10		"	10.0		101	86-122				
1,4-Dichlorobenzene	10		"	10.0		101	85-124				
1,4-Dioxane	220		"	210		105	10-349				
2-Butanone	11		"	10.0		115	49-152				
2-Hexanone	9.4		"	10.0		94.1	51-146				
4-Methyl-2-pentanone	8.9		"	10.0		89.1	57-145				
Acetone	11		"	10.0		112	14-150				
Acrolein	18		"	10.0		176	10-153	High Bias			
Acrylonitrile	10		"	10.0		101	51-150				
Benzene	11		"	10.0		108	85-126				
Bromochloromethane	10		"	10.0		101	77-128				
Bromodichloromethane	9.2		"	10.0		92.4	79-128				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80893 - EPA 5030B											
LCS (BH80893-BS1)							Prepared & Analyzed: 08/17/2018				
Bromoform	10		ug/L	10.0		104	78-133				
Bromomethane	3.0		"	10.0		30.0	43-168	Low Bias			
Carbon disulfide	13		"	10.0		129	68-146				
Carbon tetrachloride	12		"	10.0		119	77-141				
Chlorobenzene	10		"	10.0		102	88-120				
Chloroethane	9.8		"	10.0		98.1	65-136				
Chloroform	10		"	10.0		102	82-128				
Chloromethane	8.2		"	10.0		82.4	43-155				
cis-1,2-Dichloroethylene	11		"	10.0		106	83-129				
cis-1,3-Dichloropropylene	9.5		"	10.0		95.0	80-131				
Cyclohexane	12		"	10.0		124	63-149				
Dibromochloromethane	10		"	10.0		99.6	80-130				
Dibromomethane	9.2		"	10.0		91.9	72-134				
Dichlorodifluoromethane	13		"	10.0		135	44-144				
Ethyl Benzene	10		"	10.0		104	80-131				
Hexachlorobutadiene	12		"	10.0		124	67-146				
Isopropylbenzene	10		"	10.0		102	76-140				
Methyl acetate	9.2		"	10.0		92.2	51-139				
Methyl tert-butyl ether (MTBE)	11		"	10.0		109	76-135				
Methylcyclohexane	11		"	10.0		115	72-143				
Methylene chloride	11		"	10.0		110	55-137				
n-Butylbenzene	10		"	10.0		103	79-132				
n-Propylbenzene	10		"	10.0		100	78-133				
o-Xylene	10		"	10.0		103	78-130				
p- & m- Xylenes	19		"	20.0		93.0	77-133				
p-Isopropyltoluene	11		"	10.0		108	81-136				
sec-Butylbenzene	11		"	10.0		109	79-137				
Styrene	10		"	10.0		100	67-132				
tert-Butyl alcohol (TBA)	56		"	50.0		112	25-162				
tert-Butylbenzene	11		"	10.0		107	77-138				
Tetrachloroethylene	8.8		"	10.0		88.4	82-131				
Toluene	10		"	10.0		101	80-127				
trans-1,2-Dichloroethylene	11		"	10.0		111	80-132				
trans-1,3-Dichloropropylene	9.3		"	10.0		93.1	78-131				
trans-1,4-dichloro-2-butene	8.7		"	10.0		87.2	63-141				
Trichloroethylene	10		"	10.0		102	82-128				
Trichlorofluoromethane	12		"	10.0		115	67-139				
Vinyl Chloride	10		"	10.0		104	58-145				
Surrogate: 1,2-Dichloroethane-d4	*9.60*		*"*	*10.0*		*96.0*	*69-130*				
Surrogate: Toluene-d8	*9.60*		*"*	*10.0*		*96.0*	*81-117*				
Surrogate: p-Bromofluorobenzene	*9.33*		*"*	*10.0*		*93.3*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80893 - EPA 5030B											
LCS Dup (BH80893-BSD1)								Prepared & Analyzed: 08/17/2018			
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		101	82-126		3.02	30	
1,1,1-Trichloroethane	11		"	10.0		106	78-136		4.59	30	
1,1,2,2-Tetrachloroethane	8.8		"	10.0		87.5	76-129		4.36	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	13		"	10.0		128	54-165		6.62	30	
1,1,2-Trichloroethane	9.1		"	10.0		91.2	82-123		3.77	30	
1,1-Dichloroethane	10		"	10.0		104	82-129		5.04	30	
1,1-Dichloroethylene	11		"	10.0		109	68-138		5.17	30	
1,2,3-Trichlorobenzene	11		"	10.0		110	76-136		3.30	30	
1,2,3-Trichloropropane	9.0		"	10.0		89.6	77-128		1.99	30	
1,2,4-Trichlorobenzene	11		"	10.0		106	76-137		3.26	30	
1,2,4-Trimethylbenzene	9.8		"	10.0		98.0	82-132		1.42	30	
1,2-Dibromo-3-chloropropane	8.3		"	10.0		82.8	45-147		5.18	30	
1,2-Dibromoethane	9.4		"	10.0		94.0	83-124		3.04	30	
1,2-Dichlorobenzene	9.9		"	10.0		99.3	79-123		0.201	30	
1,2-Dichloroethane	9.6		"	10.0		95.6	73-132		4.30	30	
1,2-Dichloropropane	8.8		"	10.0		88.0	78-126		5.20	30	
1,3,5-Trimethylbenzene	9.9		"	10.0		99.3	80-131		2.39	30	
1,3-Dichlorobenzene	9.9		"	10.0		99.1	86-122		2.10	30	
1,4-Dichlorobenzene	9.8		"	10.0		97.9	85-124		3.12	30	
1,4-Dioxane	160		"	210		77.9	10-349		29.3	30	
2-Butanone	12		"	10.0		116	49-152		0.521	30	
2-Hexanone	9.9		"	10.0		98.8	51-146		4.87	30	
4-Methyl-2-pentanone	9.0		"	10.0		89.8	57-145		0.783	30	
Acetone	12		"	10.0		117	14-150		4.98	30	
Acrolein	16		"	10.0		164	10-153	High Bias	6.71	30	
Acrylonitrile	9.2		"	10.0		92.0	51-150		9.23	30	
Benzene	10		"	10.0		103	85-126		5.22	30	
Bromochloromethane	9.5		"	10.0		95.3	77-128		5.61	30	
Bromodichloromethane	8.8		"	10.0		88.5	79-128		4.31	30	
Bromoform	10		"	10.0		101	78-133		3.12	30	
Bromomethane	3.4		"	10.0		34.4	43-168	Low Bias	13.7	30	
Carbon disulfide	12		"	10.0		120	68-146		7.38	30	
Carbon tetrachloride	11		"	10.0		112	77-141		5.28	30	
Chlorobenzene	9.8		"	10.0		98.4	88-120		3.79	30	
Chloroethane	9.5		"	10.0		95.0	65-136		3.21	30	
Chloroform	9.9		"	10.0		98.8	82-128		3.38	30	
Chloromethane	7.9		"	10.0		78.7	43-155		4.59	30	
cis-1,2-Dichloroethylene	10		"	10.0		99.7	83-129		5.94	30	
cis-1,3-Dichloropropylene	9.4		"	10.0		93.5	80-131		1.59	30	
Cyclohexane	12		"	10.0		117	63-149		6.22	30	
Dibromochloromethane	9.9		"	10.0		99.3	80-130		0.302	30	
Dibromomethane	8.9		"	10.0		88.7	72-134		3.54	30	
Dichlorodifluoromethane	13		"	10.0		129	44-144		4.78	30	
Ethyl Benzene	10		"	10.0		101	80-131		2.84	30	
Hexachlorobutadiene	12		"	10.0		119	67-146		4.02	30	
Isopropylbenzene	10		"	10.0		99.7	76-140		2.77	30	
Methyl acetate	9.1		"	10.0		90.7	51-139		1.64	30	
Methyl tert-butyl ether (MTBE)	11		"	10.0		106	76-135		3.16	30	
Methylcyclohexane	11		"	10.0		110	72-143		4.18	30	
Methylene chloride	10		"	10.0		105	55-137		5.21	30	
n-Butylbenzene	10		"	10.0		99.9	79-132		2.67	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80893 - EPA 5030B											
LCS Dup (BH80893-BSD1)							Prepared & Analyzed: 08/17/2018				
n-Propylbenzene	9.8		ug/L	10.0		98.3	78-133		2.11	30	
o-Xylene	10		"	10.0		100	78-130		3.05	30	
p- & m- Xylenes	18		"	20.0		89.9	77-133		3.39	30	
p-Isopropyltoluene	10		"	10.0		104	81-136		3.21	30	
sec-Butylbenzene	11		"	10.0		106	79-137		2.60	30	
Styrene	9.8		"	10.0		98.1	67-132		2.42	30	
tert-Butyl alcohol (TBA)	45		"	50.0		91.0	25-162		20.3	30	
tert-Butylbenzene	10		"	10.0		103	77-138		3.52	30	
Tetrachloroethylene	8.6		"	10.0		86.5	82-131		2.17	30	
Toluene	9.7		"	10.0		97.0	80-127		3.74	30	
trans-1,2-Dichloroethylene	11		"	10.0		105	80-132		5.10	30	
trans-1,3-Dichloropropylene	9.0		"	10.0		90.2	78-131		3.16	30	
trans-1,4-dichloro-2-butene	8.6		"	10.0		86.0	63-141		1.39	30	
Trichloroethylene	9.8		"	10.0		98.2	82-128		3.89	30	
Trichlorofluoromethane	11		"	10.0		109	67-139		5.81	30	
Vinyl Chloride	9.8		"	10.0		98.4	58-145		5.63	30	
Surrogate: 1,2-Dichloroethane-d4	*9.59*		*"*	*10.0*		*95.9*	*69-130*				
Surrogate: Toluene-d8	*9.60*		*"*	*10.0*		*96.0*	*81-117*				
Surrogate: p-Bromofluorobenzene	*9.50*		*"*	*10.0*		*95.0*	*79-122*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
Blank (BH80648-BLK1)								Prepared & Analyzed: 08/14/2018			
1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2,4-Trichlorobenzene	ND	5.00	"								
1,2-Dichlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
1,3-Dichlorobenzene	ND	5.00	"								
1,4-Dichlorobenzene	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acenaphthene	ND	0.0500	"								
Acenaphthylene	ND	0.0500	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	20.0	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Benzoic acid	ND	50.0	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
Blank (BH80648-BLK1)								Prepared & Analyzed: 08/14/2018			
Caprolactam	ND	5.00	ug/L								
Carbazole	ND	5.00	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachlorocyclopentadiene	ND	5.00	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Isophorone	ND	5.00	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Phenol	ND	5.00	"								
Pyrene	ND	0.0500	"								
Surrogate: 2-Fluorophenol	*25.3*		*"*	*50.0*		*50.5*	*19.7-63.1*				
Surrogate: Phenol-d5	*13.3*		*"*	*50.0*		*26.6*	*10.1-41.7*				
Surrogate: Nitrobenzene-d5	*20.4*		*"*	*25.0*		*81.7*	*50.2-113*				
Surrogate: 2-Fluorobiphenyl	*26.1*		*"*	*25.0*		*105*	*39.9-105*				
Surrogate: 2,4,6-Tribromophenol	*50.6*		*"*	*50.0*		*101*	*39.3-151*				
Surrogate: Terphenyl-d14	*27.8*		*"*	*25.0*		*111*	*30.7-106*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
Blank (BH80648-BLK2)								Prepared & Analyzed: 08/14/2018			
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								
LCS (BH80648-BS1)								Prepared & Analyzed: 08/14/2018			
1,1-Biphenyl	21.8	5.00	ug/L	25.0		87.2	21-102				
1,2,4,5-Tetrachlorobenzene	22.7	5.00	"	25.0		90.8	28-105				
1,2,4-Trichlorobenzene	24.0	5.00	"	25.0		96.2	35-91	High Bias			
1,2-Dichlorobenzene	21.1	5.00	"	25.0		84.6	42-85				
1,2-Diphenylhydrazine (as Azobenzene)	21.0	5.00	"	25.0		84.0	16-137				
1,3-Dichlorobenzene	20.0	5.00	"	25.0		79.8	45-80				
1,4-Dichlorobenzene	17.9	5.00	"	25.0		71.6	42-82				
2,3,4,6-Tetrachlorophenol	48.3	5.00	"	25.0		193	30-130	High Bias			
2,4,5-Trichlorophenol	25.7	5.00	"	25.0		103	36-112				
2,4,6-Trichlorophenol	25.2	5.00	"	25.0		101	41-107				
2,4-Dichlorophenol	27.4	5.00	"	25.0		110	43-92	High Bias			
2,4-Dimethylphenol	23.2	5.00	"	25.0		92.8	25-92	High Bias			
2,4-Dinitrophenol	35.4	5.00	"	25.0		141	10-149				
2,4-Dinitrotoluene	24.3	5.00	"	25.0		97.0	41-114				
2,6-Dinitrotoluene	24.1	5.00	"	25.0		96.3	49-106				
2-Chloronaphthalene	22.0	5.00	"	25.0		88.0	40-96				
2-Chlorophenol	20.0	5.00	"	25.0		80.1	35-84				
2-Methylnaphthalene	23.6	5.00	"	25.0		94.3	33-101				
2-Methylphenol	16.9	5.00	"	25.0		67.5	10-90				
2-Nitroaniline	20.2	5.00	"	25.0		80.7	31-122				
2-Nitrophenol	24.2	5.00	"	25.0		96.9	37-97				
3- & 4-Methylphenols	14.0	5.00	"	25.0		56.0	10-101				
3,3-Dichlorobenzidine	23.6	5.00	"	25.0		94.3	25-155				
3-Nitroaniline	17.5	5.00	"	25.0		70.0	29-128				
4,6-Dinitro-2-methylphenol	29.9	5.00	"	25.0		119	10-135				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
LCS (BH80648-BS1)							Prepared & Analyzed: 08/14/2018				
4-Bromophenyl phenyl ether	23.4	5.00	ug/L	25.0		93.5	38-116				
4-Chloro-3-methylphenol	22.4	5.00	"	25.0		89.7	28-101				
4-Chloroaniline	13.9	5.00	"	25.0		55.8	10-154				
4-Chlorophenyl phenyl ether	23.1	5.00	"	25.0		92.3	34-112				
4-Nitroaniline	18.2	5.00	"	25.0		72.8	15-143				
4-Nitrophenol	10.2	5.00	"	25.0		40.8	10-112				
Acenaphthene	19.5	0.0500	"	25.0		78.1	24-114				
Acenaphthylene	20.0	0.0500	"	25.0		80.0	26-112				
Acetophenone	20.0	5.00	"	25.0		79.9	47-92				
Aniline	7.41	5.00	"	25.0		29.6	10-107				
Anthracene	20.3	0.0500	"	25.0		81.1	35-114				
Atrazine	25.4	0.500	"	25.0		101	43-101				
Benzaldehyde	21.6	5.00	"	25.0		86.4	17-117				
Benzo(a)anthracene	23.9	0.0500	"	25.0		95.7	38-127				
Benzo(a)pyrene	24.1	0.0500	"	25.0		96.5	30-146				
Benzo(b)fluoranthene	24.7	0.0500	"	25.0		98.7	36-145				
Benzo(g,h,i)perylene	20.0	0.0500	"	25.0		80.1	10-163				
Benzo(k)fluoranthene	22.6	0.0500	"	25.0		90.4	16-149				
Benzoic acid	ND	50.0	"	25.4			30-130	Low Bias			
Benzyl alcohol	15.5	5.00	"	25.0		62.1	18-75				
Benzyl butyl phthalate	23.5	5.00	"	25.0		94.0	28-129				
Bis(2-chloroethoxy)methane	23.3	5.00	"	25.0		93.4	27-112				
Bis(2-chloroethyl)ether	18.1	5.00	"	25.0		72.6	24-114				
Bis(2-chloroisopropyl)ether	20.3	5.00	"	25.0		81.1	21-124				
Bis(2-ethylhexyl)phthalate	23.3	0.500	"	25.0		93.2	10-171				
Caprolactam	4.53	5.00	"	25.0		18.1	10-29				
Carbazole	24.4	5.00	"	25.0		97.5	49-116				
Chrysene	21.7	0.0500	"	25.0		86.8	33-120				
Dibenzo(a,h)anthracene	21.4	0.0500	"	25.0		85.5	10-149				
Dibenzofuran	22.3	5.00	"	25.0		89.0	42-105				
Diethyl phthalate	23.6	5.00	"	25.0		94.3	38-112				
Dimethyl phthalate	23.1	5.00	"	25.0		92.4	49-106				
Di-n-butyl phthalate	20.4	5.00	"	25.0		81.7	36-110				
Di-n-octyl phthalate	23.9	5.00	"	25.0		95.6	12-149				
Fluoranthene	20.8	0.0500	"	25.0		83.0	33-126				
Fluorene	20.2	0.0500	"	25.0		80.7	28-117				
Hexachlorobenzene	19.4	0.0200	"	25.0		77.8	27-120				
Hexachlorobutadiene	23.5	0.500	"	25.0		93.9	25-106				
Hexachlorocyclopentadiene	12.8	5.00	"	25.0		51.2	10-99				
Hexachloroethane	17.5	0.500	"	25.0		70.0	33-84				
Indeno(1,2,3-cd)pyrene	21.3	0.0500	"	25.0		85.2	10-150				
Isophorone	22.2	5.00	"	25.0		88.6	29-115				
Naphthalene	19.6	0.0500	"	25.0		78.3	30-99				
Nitrobenzene	21.5	0.250	"	25.0		86.2	32-113				
N-Nitrosodimethylamine	11.1	0.500	"	25.0		44.2	10-63				
N-nitroso-di-n-propylamine	20.5	5.00	"	25.0		81.9	36-118				
N-Nitrosodiphenylamine	27.0	5.00	"	25.0		108	27-145				
Pentachlorophenol	25.3	0.250	"	25.0		101	19-127				
Phenanthrene	20.4	0.0500	"	25.0		81.4	31-112				
Phenol	8.00	5.00	"	25.0		32.0	10-37				
Pyrene	23.0	0.0500	"	25.0		92.0	42-125				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
LCS (BH80648-BS1)							Prepared & Analyzed: 08/14/2018				
Surrogate: 2-Fluorophenol	*29.4*		*ug/L*	*50.0*		*58.7*	*19.7-63.1*				
Surrogate: Phenol-d5	*15.2*		*"*	*50.0*		*30.5*	*10.1-41.7*				
Surrogate: Nitrobenzene-d5	*21.8*		*"*	*25.0*		*87.3*	*50.2-113*				
Surrogate: 2-Fluorobiphenyl	*26.1*		*"*	*25.0*		*104*	*39.9-105*				
Surrogate: 2,4,6-Tribromophenol	*60.2*		*"*	*50.0*		*120*	*39.3-151*				
Surrogate: Terphenyl-d14	*29.7*		*"*	*25.0*		*119*	*30.7-106*				
LCS (BH80648-BS2)							Prepared & Analyzed: 08/14/2018				
Acenaphthene	0.780	0.0500	ug/L	1.00		78.0	24-114				
Acenaphthylene	0.810	0.0500	"	1.00		81.0	26-112				
Anthracene	0.850	0.0500	"	1.00		85.0	35-114				
Atrazine	ND	0.500	"				43-101				
Benzo(a)anthracene	0.900	0.0500	"	1.00		90.0	38-127				
Benzo(a)pyrene	0.900	0.0500	"	1.00		90.0	30-146				
Benzo(b)fluoranthene	0.910	0.0500	"	1.00		91.0	36-145				
Benzo(g,h,i)perylene	0.970	0.0500	"	1.00		97.0	10-163				
Benzo(k)fluoranthene	0.900	0.0500	"	1.00		90.0	16-149				
Bis(2-ethylhexyl)phthalate	0.710	0.500	"	1.00		71.0	10-171				
Chrysene	0.820	0.0500	"	1.00		82.0	33-120				
Dibenzo(a,h)anthracene	0.960	0.0500	"	1.00		96.0	10-149				
Fluoranthene	0.980	0.0500	"	1.00		98.0	33-126				
Fluorene	0.890	0.0500	"	1.00		89.0	28-117				
Hexachlorobenzene	1.03	0.0200	"	1.00		103	27-120				
Hexachlorobutadiene	0.800	0.500	"	1.00		80.0	25-106				
Hexachloroethane	0.600	0.500	"	1.00		60.0	33-84				
Indeno(1,2,3-cd)pyrene	0.960	0.0500	"	1.00		96.0	10-150				
Naphthalene	0.800	0.0500	"	1.00		80.0	30-99				
Nitrobenzene	0.870	0.250	"	1.00		87.0	32-113				
N-Nitrosodimethylamine	ND	0.500	"	1.00			10-63	Low Bias			
Pentachlorophenol	1.17	0.250	"	1.00		117	19-127				
Phenanthrene	0.900	0.0500	"	1.00		90.0	31-112				
Pyrene	0.870	0.0500	"	1.00		87.0	42-125				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
LCS Dup (BH80648-BSD1)								Prepared & Analyzed: 08/14/2018			
1,1-Biphenyl	21.6	5.00	ug/L	25.0		86.4	21-102		0.922	20	
1,2,4,5-Tetrachlorobenzene	26.6	5.00	"	25.0		106	28-105	High Bias	15.6	20	
1,2,4-Trichlorobenzene	26.6	5.00	"	25.0		107	35-91	High Bias	10.3	20	
1,2-Dichlorobenzene	20.6	5.00	"	25.0		82.3	42-85		2.73	20	
1,2-Diphenylhydrazine (as Azobenzene)	18.0	5.00	"	25.0		71.8	16-137		15.6	20	
1,3-Dichlorobenzene	22.4	5.00	"	25.0		89.4	45-80	High Bias	11.3	20	
1,4-Dichlorobenzene	18.2	5.00	"	25.0		72.9	42-82		1.72	20	
2,3,4,6-Tetrachlorophenol	54.2	5.00	"	25.0		217	30-130	High Bias	11.6	20	
2,4,5-Trichlorophenol	25.2	5.00	"	25.0		101	36-112		1.93	20	
2,4,6-Trichlorophenol	26.8	5.00	"	25.0		107	41-107		6.08	20	
2,4-Dichlorophenol	27.9	5.00	"	25.0		112	43-92	High Bias	1.77	20	
2,4-Dimethylphenol	21.4	5.00	"	25.0		85.8	25-92		7.88	20	
2,4-Dinitrophenol	39.8	5.00	"	25.0		159	10-149	High Bias	11.8	20	
2,4-Dinitrotoluene	27.3	5.00	"	25.0		109	41-114		11.9	20	
2,6-Dinitrotoluene	25.7	5.00	"	25.0		103	49-106		6.35	20	
2-Chloronaphthalene	22.1	5.00	"	25.0		88.3	40-96		0.363	20	
2-Chlorophenol	20.4	5.00	"	25.0		81.6	35-84		1.88	20	
2-Methylnaphthalene	22.4	5.00	"	25.0		89.8	33-101		4.91	20	
2-Methylphenol	15.5	5.00	"	25.0		62.1	10-90		8.34	20	
2-Nitroaniline	22.8	5.00	"	25.0		91.1	31-122		12.1	20	
2-Nitrophenol	24.6	5.00	"	25.0		98.5	37-97	High Bias	1.68	20	
3- & 4-Methylphenols	14.4	5.00	"	25.0		57.6	10-101		2.82	20	
3,3-Dichlorobenzidine	23.0	5.00	"	25.0		92.2	25-155		2.23	20	
3-Nitroaniline	17.9	5.00	"	25.0		71.6	29-128		2.37	20	
4,6-Dinitro-2-methylphenol	31.0	5.00	"	25.0		124	10-135		3.68	20	
4-Bromophenyl phenyl ether	23.8	5.00	"	25.0		95.3	38-116		1.86	20	
4-Chloro-3-methylphenol	25.3	5.00	"	25.0		101	28-101		11.9	20	
4-Chloroaniline	14.1	5.00	"	25.0		56.4	10-154		1.07	20	
4-Chlorophenyl phenyl ether	26.5	5.00	"	25.0		106	34-112		13.8	20	
4-Nitroaniline	18.3	5.00	"	25.0		73.4	15-143		0.821	20	
4-Nitrophenol	10.8	5.00	"	25.0		43.2	10-112		5.71	20	
Acenaphthene	19.8	0.0500	"	25.0		79.0	24-114		1.22	20	
Acenaphthylene	21.1	0.0500	"	25.0		84.6	26-112		5.49	20	
Acetophenone	21.0	5.00	"	25.0		84.0	47-92		5.03	20	
Aniline	8.65	5.00	"	25.0		34.6	10-107		15.4	20	
Anthracene	20.8	0.0500	"	25.0		83.1	35-114		2.48	20	
Atrazine	25.0	0.500	"	25.0		99.9	43-101		1.47	20	
Benzaldehyde	24.3	5.00	"	25.0		97.2	17-117		11.7	20	
Benzo(a)anthracene	22.3	0.0500	"	25.0		89.0	38-127		7.19	20	
Benzo(a)pyrene	23.3	0.0500	"	25.0		93.0	30-146		3.63	20	
Benzo(b)fluoranthene	24.1	0.0500	"	25.0		96.4	36-145		2.38	20	
Benzo(g,h,i)perylene	22.4	0.0500	"	25.0		89.6	10-163		11.3	20	
Benzo(k)fluoranthene	23.9	0.0500	"	25.0		95.6	16-149		5.68	20	
Benzoic acid	ND	50.0	"	25.4			30-130	Low Bias		20	
Benzyl alcohol	15.3	5.00	"	25.0		61.2	18-75		1.56	20	
Benzyl butyl phthalate	22.6	5.00	"	25.0		90.4	28-129		3.86	20	
Bis(2-chloroethoxy)methane	24.2	5.00	"	25.0		96.6	27-112		3.41	20	
Bis(2-chloroethyl)ether	20.6	5.00	"	25.0		82.2	24-114		12.5	20	
Bis(2-chloroisopropyl)ether	19.1	5.00	"	25.0		76.5	21-124		5.84	20	
Bis(2-ethylhexyl)phthalate	22.8	0.500	"	25.0		91.1	10-171		2.30	20	
Caprolactam	4.91	5.00	"	25.0		19.6	10-29		8.05	20	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
LCS Dup (BH80648-BSD1)							Prepared & Analyzed: 08/14/2018				
Carbazole	25.6	5.00	ug/L	25.0		102	49-116		4.96	20	
Chrysene	20.2	0.0500	"	25.0		81.0	33-120		6.91	20	
Dibenzo(a,h)anthracene	23.1	0.0500	"	25.0		92.4	10-149		7.78	20	
Dibenzofuran	23.6	5.00	"	25.0		94.2	42-105		5.63	20	
Diethyl phthalate	25.3	5.00	"	25.0		101	38-112		6.92	20	
Dimethyl phthalate	24.5	5.00	"	25.0		97.8	49-106		5.72	20	
Di-n-butyl phthalate	22.3	5.00	"	25.0		89.4	36-110		8.98	20	
Di-n-octyl phthalate	22.0	5.00	"	25.0		88.0	12-149		8.28	20	
Fluoranthene	23.8	0.0500	"	25.0		95.3	33-126		13.8	20	
Fluorene	23.6	0.0500	"	25.0		94.3	28-117		15.6	20	
Hexachlorobenzene	21.0	0.0200	"	25.0		84.0	27-120		7.62	20	
Hexachlorobutadiene	25.0	0.500	"	25.0		100	25-106		6.31	20	
Hexachlorocyclopentadiene	14.2	5.00	"	25.0		56.9	10-99		10.5	20	
Hexachloroethane	18.8	0.500	"	25.0		75.1	33-84		7.11	20	
Indeno(1,2,3-cd)pyrene	23.7	0.0500	"	25.0		94.8	10-150		10.7	20	
Isophorone	23.1	5.00	"	25.0		92.2	29-115		3.98	20	
Naphthalene	19.0	0.0500	"	25.0		76.0	30-99		2.95	20	
Nitrobenzene	20.6	0.250	"	25.0		82.4	32-113		4.51	20	
N-Nitrosodimethylamine	12.4	0.500	"	25.0		49.6	10-63		11.3	20	
N-nitroso-di-n-propylamine	20.9	5.00	"	25.0		83.6	36-118		2.08	20	
N-Nitrosodiphenylamine	26.7	5.00	"	25.0		107	27-145		0.968	20	
Pentachlorophenol	27.3	0.250	"	25.0		109	19-127		7.53	20	
Phenanthrene	22.4	0.0500	"	25.0		89.8	31-112		9.77	20	
Phenol	7.61	5.00	"	25.0		30.4	10-37		5.00	20	
Pyrene	21.5	0.0500	"	25.0		86.0	42-125		6.83	20	
Surrogate: 2-Fluorophenol	*29.4*		*"*	*50.0*		*58.9*	*19.7-63.1*				
Surrogate: Phenol-d5	*15.9*		*"*	*50.0*		*31.8*	*10.1-41.7*				
Surrogate: Nitrobenzene-d5	*23.8*		*"*	*25.0*		*95.0*	*50.2-113*				
Surrogate: 2-Fluorobiphenyl	*26.1*		*"*	*25.0*		*104*	*39.9-105*				
Surrogate: 2,4,6-Tribromophenol	*60.7*		*"*	*50.0*		*121*	*39.3-151*				
Surrogate: Terphenyl-d14	*29.4*		*"*	*25.0*		*118*	*30.7-106*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80646 - EPA SW846-3510C Low Level											
Blank (BH80646-BLK1)								Prepared: 08/14/2018 Analyzed: 08/15/2018			
4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
alpha-Chlordane	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
Chlordane, total	ND	0.0200	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
gamma-Chlordane	ND	0.0100	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
Surrogate: Decachlorobiphenyl	*0.111*		*"*	*0.201*		*55.4*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.105*		*"*	*0.202*		*51.9*	*30-150*				
LCS (BH80646-BS1)								Prepared: 08/14/2018 Analyzed: 08/15/2018			
4,4'-DDD	0.119	0.00400	ug/L	0.100		119	40-140				
4,4'-DDE	0.105	0.00400	"	0.100		105	40-140				
4,4'-DDT	0.119	0.00400	"	0.100		119	40-140				
Aldrin	0.105	0.00400	"	0.100		105	40-140				
alpha-BHC	0.115	0.00400	"	0.100		115	40-140				
alpha-Chlordane	0.103	0.00400	"	0.100		103	40-140				
beta-BHC	0.0985	0.00400	"	0.100		98.5	40-140				
delta-BHC	0.119	0.00400	"	0.100		119	40-140				
Dieldrin	0.0923	0.00200	"	0.100		92.3	40-140				
Endosulfan I	0.105	0.00400	"	0.100		105	40-140				
Endosulfan II	0.112	0.00400	"	0.100		112	40-140				
Endosulfan sulfate	0.110	0.00400	"	0.100		110	40-140				
Endrin	0.114	0.00400	"	0.100		114	40-140				
Endrin aldehyde	0.110	0.0100	"	0.100		110	40-140				
Endrin ketone	0.109	0.0100	"	0.100		109	40-140				
gamma-BHC (Lindane)	0.115	0.00400	"	0.100		115	40-140				
gamma-Chlordane	0.102	0.0100	"	0.100		102	40-140				
Heptachlor	0.0987	0.00400	"	0.100		98.7	40-140				
Heptachlor epoxide	0.0973	0.00400	"	0.100		97.3	40-140				
Methoxychlor	0.105	0.00400	"	0.100		105	40-140				
Surrogate: Decachlorobiphenyl	*0.182*		*"*	*0.201*		*90.4*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.174*		*"*	*0.202*		*86.3*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch Y8H1603 - BH80158											
Performance Mix (Y8H1603-PEM1)							Prepared & Analyzed: 08/15/2018				
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.571		"	0.00			0-200				
4,4'-DDT	277		"	200		138	0-200				
Endrin	167		"	100		167	0-200				
Endrin aldehyde	2.72		"	0.00			0-200				
Endrin ketone	8.53		"	0.00			0-200				
Performance Mix (Y8H1603-PEM2)							Prepared & Analyzed: 08/15/2018				
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.496		"	0.00			0-200				
4,4'-DDT	316		"	200		158	0-200				
Endrin	185		"	100		185	0-200				
Endrin aldehyde	1.70		"	0.00			0-200				
Endrin ketone	7.15		"	0.00			0-200				
Batch Y8H2015 - BH80158											
Performance Mix (Y8H2015-PEM1)							Prepared & Analyzed: 08/17/2018				
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.766		"	0.00			0-200				
4,4'-DDT	311		"	200		156	0-200				
Endrin	189		"	100		189	0-200				
Endrin aldehyde	2.18		"	0.00			0-200				
Endrin ketone	9.22		"	0.00			0-200				
Performance Mix (Y8H2015-PEM2)							Prepared & Analyzed: 08/17/2018				
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.867		"	0.00			0-200				
4,4'-DDT	288		"	200		144	0-200				
Endrin	193		"	100		193	0-200				
Endrin aldehyde	2.52		"	0.00			0-200				
Endrin ketone	10.7		"	0.00			0-200				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch Y8H2015 - BH80158											
Performance Mix (Y8H2015-PEM3)							Prepared: 08/17/2018 Analyzed: 08/18/2018				
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.939		"	0.00			0-200				
4,4'-DDT	292		"	200		146	0-200				
Endrin	200		"	100		200	0-200				
Endrin aldehyde	2.87		"	0.00			0-200				
Endrin ketone	10.4		"	0.00			0-200				
Batch Y8H2101 - BH80158											
Performance Mix (Y8H2101-PEM1)							Prepared & Analyzed: 08/20/2018				
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.696		"	0.00			0-200				
4,4'-DDT	209		"	200		104	0-200				
Endrin	152		"	100		152	0-200				
Endrin aldehyde	4.18		"	0.00			0-200				
Endrin ketone	11.0		"	0.00			0-200				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80646 - EPA SW846-3510C Low Level											
Blank (BH80646-BLK2)								Prepared & Analyzed: 08/14/2018			
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.202*		*"*	*0.202*		*100*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.173*		*"*	*0.201*		*86.1*	*30-120*				
LCS (BH80646-BS2)								Prepared & Analyzed: 08/14/2018			
Aroclor 1016	1.11	0.0500	ug/L	1.00		111	40-120				
Aroclor 1260	1.07	0.0500	"	1.00		107	40-120				
Surrogate: Tetrachloro-m-xylene	*0.202*		*"*	*0.202*		*100*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.167*		*"*	*0.201*		*83.1*	*30-120*				
LCS Dup (BH80646-BSD2)								Prepared: 08/14/2018 Analyzed: 08/15/2018			
Aroclor 1016	1.06	0.0500	ug/L	1.00		106	40-120		4.82	30	
Aroclor 1260	1.24	0.0500	"	1.00		124	40-120	High Bias	14.4	30	
Surrogate: Tetrachloro-m-xylene	*0.222*		*"*	*0.202*		*110*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.231*		*"*	*0.201*		*115*	*30-120*				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80751 - EPA 3015A											
Blank (BH80751-BLK1)								Prepared: 08/15/2018 Analyzed: 08/20/2018			
Aluminum	ND	10.0	ug/L								
Antimony	ND	1.00	"								
Arsenic	ND	1.00	"								
Barium	ND	1.00	"								
Beryllium	ND	0.300	"								
Cadmium	ND	0.500	"								
Chromium	ND	1.00	"								
Cobalt	ND	1.00	"								
Copper	ND	1.00	"								
Iron	74.4	10.0	"								
Lead	ND	1.00	"								
Manganese	ND	1.00	"								
Nickel	ND	1.00	"								
Selenium	ND	1.00	"								
Silver	ND	1.00	"								
Thallium	ND	1.00	"								
Vanadium	ND	1.00	"								
Zinc	ND	1.00	"								
LCS (BH80751-BS1)								Prepared: 08/15/2018 Analyzed: 08/20/2018			
Aluminum	2260		ug/L	2500		90.3	80-120				
Antimony	49.8		"	50.0		99.6	80-120				
Arsenic	46.1		"	50.0		92.2	80-120				
Barium	45.7		"	50.0		91.3	80-120				
Beryllium	45.9		"	50.0		91.9	80-120				
Cadmium	47.5		"	50.0		95.1	80-120				
Chromium	46.1		"	50.0		92.2	80-120				
Cobalt	45.0		"	50.0		90.0	80-120				
Copper	46.8		"	50.0		93.7	80-120				
Iron	2370		"	2500		94.7	80-120				
Lead	49.1		"	50.0		98.3	80-120				
Manganese	44.5		"	50.0		88.9	80-120				
Nickel	47.0		"	50.0		94.0	80-120				
Selenium	40.3		"	50.0		80.7	80-120				
Silver	48.1		"	50.0		96.2	80-120				
Thallium	47.4		"	50.0		94.9	80-120				
Vanadium	44.6		"	50.0		89.2	80-120				
Zinc	45.5		"	50.0		90.9	80-120				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80752 - EPA 3015A											
Blank (BH80752-BLK1)								Prepared: 08/15/2018 Analyzed: 08/20/2018			
Aluminum - Dissolved	ND	10.0	ug/L								
Antimony - Dissolved	ND	1.00	"								
Arsenic - Dissolved	ND	1.00	"								
Barium - Dissolved	ND	1.00	"								
Beryllium - Dissolved	ND	0.300	"								
Cadmium - Dissolved	ND	0.500	"								
Chromium - Dissolved	ND	1.00	"								
Cobalt - Dissolved	ND	1.00	"								
Copper - Dissolved	ND	1.00	"								
Iron - Dissolved	ND	10.0	"								
Lead - Dissolved	ND	1.00	"								
Manganese - Dissolved	ND	1.00	"								
Nickel - Dissolved	ND	1.00	"								
Selenium - Dissolved	ND	1.00	"								
Silver - Dissolved	ND	1.00	"								
Thallium - Dissolved	ND	1.00	"								
Vanadium - Dissolved	ND	1.00	"								
Zinc - Dissolved	ND	1.00	"								
LCS (BH80752-BS1)								Prepared: 08/15/2018 Analyzed: 08/20/2018			
Aluminum - Dissolved	2080		ug/L	2500		83.0	80-120				
Antimony - Dissolved	48.0		"	50.0		96.0	80-120				
Arsenic - Dissolved	43.8		"	50.0		87.6	80-120				
Barium - Dissolved	46.2		"	50.0		92.5	80-120				
Beryllium - Dissolved	45.3		"	50.0		90.7	80-120				
Cadmium - Dissolved	45.1		"	50.0		90.1	80-120				
Chromium - Dissolved	43.7		"	50.0		87.5	80-120				
Cobalt - Dissolved	42.2		"	50.0		84.5	80-120				
Copper - Dissolved	44.4		"	50.0		88.7	80-120				
Iron - Dissolved	2310		"	2500		92.5	80-120				
Lead - Dissolved	48.7		"	50.0		97.3	80-120				
Manganese - Dissolved	44.7		"	50.0		89.5	80-120				
Nickel - Dissolved	44.8		"	50.0		89.6	80-120				
Selenium - Dissolved	43.8		"	50.0		87.6	80-120				
Silver - Dissolved	46.3		"	50.0		92.5	80-120				
Thallium - Dissolved	47.5		"	50.0		95.0	80-120				
Vanadium - Dissolved	41.0		"	50.0		82.1	80-120				
Zinc - Dissolved	44.4		"	50.0		88.8	80-120				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80937 - EPA 7473 water											
Blank (BH80937-BLK1)								Prepared & Analyzed: 08/20/2018			
Mercury	ND	0.20	ug/L								
Reference (BH80937-SRM1)								Prepared & Analyzed: 08/20/2018			
Mercury	0.0103		mg/L	0.0100		103	70-130				
Batch BH80938 - EPA 7473 water											
Blank (BH80938-BLK1)								Prepared & Analyzed: 08/20/2018			
Mercury - Dissolved	ND	0.0002000	mg/L								
Reference (BH80938-SRM1)								Prepared & Analyzed: 08/20/2018			
Mercury - Dissolved	0.009593		mg/L	0.0100		95.9	70-130				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18H0570-01	SB-2 (GW)	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18H0570-02	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

SCAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%).
S-08	The recovery of this surrogate was outside of QC limits.
QR-04	The RPD exceeded control limits for the LCS/LCSD QC.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
QC-LCS	LCS/LCS Dup recovery was above laboratory control limits. Sample does not contain any target compounds; therefore sample results are acceptable.
M-MBLk	Analyte was detected in the batch method blank above the Reporting Limit.
M-ISO	The ICP/MS result reported for this element used an alternate isotope due to molecular interferences encountered with the sample matrix.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

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

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

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YORK ANALYTICAL LABORATORIES INC

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 18H0570

Page 1 of 1

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: GEI Consultants	Company: GEI Consultants	Company:		RUSH - Next Day
Address: 110 Walt Whitman Road Huntington Station, NY	Address: " "	Address: → same		RUSH - Two Day
Phone.: 631-760-9300	Phone.: " "	Phone.:	YOUR Project Name: 580 Gerard Ave	RUSH - Three Day
Contact: William J. Fitchett	Contact: Wendy Monterosso	Contact:		RUSH - Four Day
E-mail: wfitchett@geiconsultants.com	E-mail: wmonterosso@geiconsultants.com	E-mail:	YOUR PO#:	Standard (5-7 Day) ✓

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

Samples Collected by: (print your name above and sign below)
William J. Fitchett

Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
S - soil / solid	New York ✓	Summary Report	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)
GW - groundwater	New Jersey	QA Report	CT RCP DQA/DUE	EQuIS (Standard)	
DW - drinking water	Connecticut	NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EQuIS	
WW - wastewater	Pennsylvania	NY ASP B Package		NJDEP SRP HazSite	
O - Oil ⋮ Other	Other		NJDKQP	Other:	

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB-2 (GW)	GW	8/10/18 1715	TCL VOCs (8260) TCL SVOCs (8270), TAL Metals	3 ambers, 2 plastics
			PCBs (8082), Pesticides (8081)	3 voa vials
Trip Blank		8/10/18	TCL VOCs	2 voa vials

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: _____

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
WJF GEI	8/13/18 1025AM	KBach	8/13/18 1025AM	KBach	8/13/18 1645
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				TC Pabich	8/13/18 1645

Temp. Received at Lab: 1.6 Degrees C

Technical Report

prepared for:

GEI Consultants, Inc
110 Walt Whitman Road, Suite 204
Huntington Station NY, 11746
Attention: Wendy Monterosso

Report Date: 08/21/2018
Client Project ID: 580 Gerard Ave
York Project (SDG) No.: 18H0567

Report Date: 08/21/2018
Client Project ID: 580 Gerard Ave
York Project (SDG) No.: 18H0567

GEI Consultants, Inc
110 Walt Whitman Road, Suite 204
Huntington Station NY, 11746
Attention: Wendy Monterosso

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 13, 2018 and listed below. The project was identified as your project: **580 Gerard Ave**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
18H0567-01	SB-5 (GW)	Water	08/10/2018	08/13/2018

General Notes for York Project (SDG) No.: 18H0567

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: **Date:** 08/21/2018

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **SB-5 (GW)** **York Sample ID:** **18H0567-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0567	580 Gerard Ave	Water	August 10, 2018 5:45 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
95-63-6	**1,2,4-Trimethylbenzene**	**3.0**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
108-67-8	**1,3,5-Trimethylbenzene**	**1.2**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	200	1	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS

Sample Information

Client Sample ID: **SB-5 (GW)** **York Sample ID:** **18H0567-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0567	580 Gerard Ave	Water	August 10, 2018 5:45 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
75-27-4	**Bromodichloromethane**	**0.95**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
67-66-3	**Chloroform**	**16**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	08/16/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 17:09	SS

Sample Information

Client Sample ID: **SB-5 (GW)** **York Sample ID:** **18H0567-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0567	580 Gerard Ave	Water	August 10, 2018 5:45 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
108-87-2	**Methylcyclohexane**	**0.47**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
103-65-1	**n-Propylbenzene**	**0.40**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	2.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 07:30	08/16/2018 17:09	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	08/16/2018 07:30	08/16/2018 17:09	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	08/16/2018 07:30	08/16/2018 17:09	SS

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: **SB-5 (GW)** **York Sample ID:** **18H0567-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0567	580 Gerard Ave	Water	August 10, 2018 5:45 pm	08/13/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*108 %*			*69-130*						
2037-26-5	*Surrogate: Toluene-d8*	*101 %*			*81-117*						
460-00-4	*Surrogate: p-Bromofluorobenzene*	*105 %*			*79-122*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:** EXT-D

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
95-57-8	2-Chlorophenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH

Sample Information

Client Sample ID: **SB-5 (GW)** **York Sample ID:** **18H0567-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0567	580 Gerard Ave	Water	August 10, 2018 5:45 pm	08/13/2018

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

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
88-74-4	2-Nitroaniline	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
88-75-5	2-Nitrophenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
99-09-2	3-Nitroaniline	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
106-47-8	4-Chloroaniline	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
100-01-6	4-Nitroaniline	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
100-02-7	4-Nitrophenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
83-32-9	Acenaphthene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
98-86-2	Acetophenone	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
62-53-3	Aniline	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
120-12-7	Anthracene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
1912-24-9	Atrazine	ND		ug/L	0.606	0.606	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
100-52-7	Benzaldehyde	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
92-87-5	Benzidine	ND		ug/L	12.1	24.2	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR

Sample Information

Client Sample ID: **SB-5 (GW)** **York Sample ID:** **18H0567-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0567	580 Gerard Ave	Water	August 10, 2018 5:45 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: **EXT-D**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
65-85-0	Benzoic acid	ND		ug/L	30.3	60.6	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
100-51-6	Benzyl alcohol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.885**		ug/L	0.606	0.606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
105-60-2	Caprolactam	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
86-74-8	Carbazole	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
218-01-9	Chrysene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
132-64-9	Dibenzofuran	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
84-66-2	Diethyl phthalate	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
131-11-3	Dimethyl phthalate	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
206-44-0	Fluoranthene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
86-73-7	Fluorene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0242	0.0242	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	0.606	0.606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR

Sample Information

Client Sample ID: **SB-5 (GW)** **York Sample ID:** **18H0567-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0567	580 Gerard Ave	Water	August 10, 2018 5:45 pm	08/13/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:** EXT-D

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
67-72-1	Hexachloroethane	ND		ug/L	0.606	0.606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
78-59-1	Isophorone	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
91-20-3	**Naphthalene**	**0.145**		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
98-95-3	Nitrobenzene	ND		ug/L	0.303	0.303	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.606	0.606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.303	0.303	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
85-01-8	**Phenanthrene**	**0.0848**		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR
108-95-2	Phenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 16:50	KH
129-00-0	Pyrene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:30	08/15/2018 09:39	SR

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*25.6 %*		*19.7-63.1*
4165-62-2	*Surrogate: Phenol-d5*	*14.6 %*		*10.1-41.7*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*46.6 %*	S-08	*50.2-113*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*63.7 %*		*39.9-105*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*79.4 %*		*39.3-151*
1718-51-0	*Surrogate: Terphenyl-d14*	*81.6 %*		*30.7-106*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

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

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
72-55-9	4,4'-DDE	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
50-29-3	4,4'-DDT	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA

Sample Information

Client Sample ID: **SB-5 (GW)** **York Sample ID:** **18H0567-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0567	580 Gerard Ave	Water	August 10, 2018 5:45 pm	08/13/2018

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

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

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
309-00-2	Aldrin	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
319-84-6	alpha-BHC	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
5103-71-9	alpha-Chlordane	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
319-85-7	beta-BHC	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
57-74-9	Chlordane, total	ND		ug/L	0.0242	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
319-86-8	delta-BHC	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
60-57-1	Dieldrin	ND		ug/L	0.00242	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
959-98-8	Endosulfan I	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
33213-65-9	Endosulfan II	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
72-20-8	Endrin	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
7421-93-4	Endrin aldehyde	ND		ug/L	0.0121	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
53494-70-5	Endrin ketone	ND		ug/L	0.0121	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
5566-34-7	gamma-Chlordane	ND		ug/L	0.0121	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
76-44-8	Heptachlor	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
72-43-5	Methoxychlor	ND		ug/L	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA
8001-35-2	Toxaphene	ND		ug/L	0.121	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/14/2018 08:21	08/15/2018 17:53	SA

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*56.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*72.3 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

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

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

Sample Information

Client Sample ID: **SB-5 (GW)** **York Sample ID:** **18H0567-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0567	580 Gerard Ave	Water	August 10, 2018 5:45 pm	08/13/2018

12674-11-2	Aroclor 1016	ND	ug/L	0.0606	1	EPA 8082A Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP	08/14/2018 08:21	08/16/2018 12:26	LAB
11104-28-2	Aroclor 1221	ND	ug/L	0.0606	1	EPA 8082A Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP	08/14/2018 08:21	08/16/2018 12:26	LAB
11141-16-5	Aroclor 1232	ND	ug/L	0.0606	1	EPA 8082A Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP	08/14/2018 08:21	08/16/2018 12:26	LAB
53469-21-9	Aroclor 1242	ND	ug/L	0.0606	1	EPA 8082A Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP	08/14/2018 08:21	08/16/2018 12:26	LAB
12672-29-6	Aroclor 1248	ND	ug/L	0.0606	1	EPA 8082A Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP	08/14/2018 08:21	08/16/2018 12:26	LAB
11097-69-1	Aroclor 1254	ND	ug/L	0.0606	1	EPA 8082A Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP	08/14/2018 08:21	08/16/2018 12:26	LAB
11096-82-5	**Aroclor 1260**	**0.0836**	ug/L	0.0606	1	EPA 8082A Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP	08/14/2018 08:21	08/16/2018 12:26	LAB
1336-36-3	*** Total PCBs**	**0.0836**	ug/L	0.0606	1	EPA 8082A Certifications:		08/14/2018 08:21	08/16/2018 12:26	LAB

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*69.3 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*68.7 %*	*30-120*

Metals, TAL, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.00	1	EPA 6020A Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39 KML
7440-38-2	Arsenic	ND		ug/L	1.00	1	EPA 6020A Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39 KML
7440-39-3	**Barium**	**76.4**		ug/L	1.00	1	EPA 6020A Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39 KML
7440-41-7	Beryllium	ND		ug/L	0.300	1	EPA 6020A Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39 KML
7440-43-9	Cadmium	ND		ug/L	0.500	1	EPA 6020A Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39 KML
7440-47-3	**Chromium**	**3.85**		ug/L	1.00	1	EPA 6020A Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39 KML
7440-48-4	**Cobalt**	**2.50**		ug/L	1.00	1	EPA 6020A Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39 KML
7440-50-8	**Copper**	**5.17**		ug/L	1.00	1	EPA 6020A Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39 KML
7439-89-6	**Iron**	**1780**	B	ug/L	10.0	1	EPA 6020A Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39 KML
7439-92-1	**Lead**	**2.51**		ug/L	1.00	1	EPA 6020A Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39 KML
7439-96-5	**Manganese**	**259**		ug/L	1.00	1	EPA 6020A Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39 KML

Sample Information

Client Sample ID: **SB-5 (GW)** **York Sample ID:** **18H0567-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0567	580 Gerard Ave	Water	August 10, 2018 5:45 pm	08/13/2018

Metals, TAL, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	**Nickel**	**4.70**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39	KML
7782-49-2	**Selenium**	**1.10**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39	KML
7440-22-4	Silver	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39	KML
7440-28-0	Thallium	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39	KML
7440-62-2	**Vanadium**	**3.71**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39	KML
7440-66-6	**Zinc**	**48.2**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 10:59	08/21/2018 18:39	KML

Metals, TAL, ICPMS Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**322**		ug/L	10.0	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7440-36-0	Antimony	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7440-38-2	Arsenic	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7440-39-3	**Barium**	**62.9**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7440-41-7	Beryllium	ND		ug/L	0.300	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7440-43-9	Cadmium	ND		ug/L	0.500	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7440-47-3	**Chromium**	**1.70**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7440-48-4	**Cobalt**	**1.03**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7440-50-8	**Copper**	**2.56**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7439-89-6	**Iron**	**712**		ug/L	10.0	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7439-92-1	**Lead**	**1.55**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7439-96-5	**Manganese**	**122**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7440-02-0	**Nickel**	**2.07**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7782-49-2	Selenium	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML

Sample Information

Client Sample ID: **SB-5 (GW)** **York Sample ID:** **18H0567-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0567	580 Gerard Ave	Water	August 10, 2018 5:45 pm	08/13/2018

Metals, TAL, ICPMS Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7440-28-0	Thallium	ND		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7440-62-2	**Vanadium**	**1.00**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML
7440-66-6	**Zinc**	**481**		ug/L	1.00	1	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/15/2018 11:01	08/20/2018 17:50	BML

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		ug/L	0.20	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/20/2018 09:12	08/20/2018 14:15	SY

Mercury by 7473, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/20/2018 09:14	08/20/2018 12:16	SY

Analytical Batch Summary

Batch ID: BH80646 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
18H0567-01	SB-5 (GW)	08/14/18
18H0567-01	SB-5 (GW)	08/14/18
BH80646-BLK1	Blank	08/14/18
BH80646-BLK2	Blank	08/14/18
BH80646-BS1	LCS	08/14/18
BH80646-BS2	LCS	08/14/18
BH80646-BSD2	LCS Dup	08/14/18

Batch ID: BH80648 **Preparation Method:** EPA 3510C **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
18H0567-01	SB-5 (GW)	08/14/18
BH80648-BLK1	Blank	08/14/18
BH80648-BLK2	Blank	08/14/18
BH80648-BS1	LCS	08/14/18
BH80648-BS2	LCS	08/14/18
BH80648-BSD1	LCS Dup	08/14/18

Batch ID: BH80751 **Preparation Method:** EPA 3015A **Prepared By:** BML

YORK Sample ID	Client Sample ID	Preparation Date
18H0567-01	SB-5 (GW)	08/15/18
BH80751-BLK1	Blank	08/15/18
BH80751-BS1	LCS	08/15/18

Batch ID: BH80752 **Preparation Method:** EPA 3015A **Prepared By:** BML

YORK Sample ID	Client Sample ID	Preparation Date
18H0567-01	SB-5 (GW)	08/15/18
BH80752-BLK1	Blank	08/15/18
BH80752-BS1	LCS	08/15/18

Batch ID: BH80792 **Preparation Method:** EPA 5030B **Prepared By:** TAB

YORK Sample ID	Client Sample ID	Preparation Date
18H0567-01	SB-5 (GW)	08/16/18
BH80792-BLK1	Blank	08/16/18
BH80792-BS1	LCS	08/16/18
BH80792-BSD1	LCS Dup	08/16/18

Batch ID: BH80937 **Preparation Method:** EPA 7473 water **Prepared By:** KML

YORK Sample ID	Client Sample ID	Preparation Date
18H0567-01	SB-5 (GW)	08/20/18
BH80937-BLK1	Blank	08/20/18
BH80937-SRM1	Reference	08/20/18

Batch ID: BH80938 **Preparation Method:** EPA 7473 water **Prepared By:** KML

YORK Sample ID	Client Sample ID	Preparation Date
18H0567-01	SB-5 (GW)	08/20/18
BH80938-BLK1	Blank	08/20/18
BH80938-SRM1	Reference	08/20/18

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80792 - EPA 5030B											
Blank (BH80792-BLK1)								Prepared & Analyzed: 08/16/2018			
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80792 - EPA 5030B											
Blank (BH80792-BLK1)								Prepared & Analyzed: 08/16/2018			
n-Butylbenzene	ND	0.50	ug/L								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: 1,2-Dichloroethane-d4	*10.8*		*"*	*10.0*		*108*	*69-130*				
Surrogate: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*79-122*				
LCS (BH80792-BS1)								Prepared & Analyzed: 08/16/2018			
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		103	82-126				
1,1,1-Trichloroethane	11		"	10.0		106	78-136				
1,1,2,2-Tetrachloroethane	10		"	10.0		104	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		116	54-165				
1,1,2-Trichloroethane	9.7		"	10.0		96.9	82-123				
1,1-Dichloroethane	11		"	10.0		108	82-129				
1,1-Dichloroethylene	11		"	10.0		109	68-138				
1,2,3-Trichlorobenzene	11		"	10.0		109	76-136				
1,2,3-Trichloropropane	10		"	10.0		103	77-128				
1,2,4-Trichlorobenzene	10		"	10.0		99.9	76-137				
1,2,4-Trimethylbenzene	11		"	10.0		105	82-132				
1,2-Dibromo-3-chloropropane	10		"	10.0		103	45-147				
1,2-Dibromoethane	10		"	10.0		100	83-124				
1,2-Dichlorobenzene	10		"	10.0		101	79-123				
1,2-Dichloroethane	11		"	10.0		107	73-132				
1,2-Dichloropropane	10		"	10.0		100	78-126				
1,3,5-Trimethylbenzene	11		"	10.0		106	80-131				
1,3-Dichlorobenzene	10		"	10.0		99.9	86-122				
1,4-Dichlorobenzene	9.9		"	10.0		98.9	85-124				
1,4-Dioxane	350		"	210		165	10-349				
2-Butanone	11		"	10.0		114	49-152				
2-Hexanone	11		"	10.0		108	51-146				
4-Methyl-2-pentanone	11		"	10.0		108	57-145				
Acetone	10		"	10.0		101	14-150				
Acrolein	18		"	10.0		184	10-153	High Bias			
Acrylonitrile	8.5		"	10.0		84.8	51-150				
Benzene	10		"	10.0		102	85-126				
Bromochloromethane	11		"	10.0		105	77-128				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80792 - EPA 5030B											
LCS (BH80792-BS1)							Prepared & Analyzed: 08/16/2018				
Bromodichloromethane	10		ug/L	10.0		100	79-128				
Bromoform	10		"	10.0		99.6	78-133				
Bromomethane	10		"	10.0		99.8	43-168				
Carbon disulfide	12		"	10.0		120	68-146				
Carbon tetrachloride	11		"	10.0		109	77-141				
Chlorobenzene	10		"	10.0		102	88-120				
Chloroethane	9.6		"	10.0		96.1	65-136				
Chloroform	10		"	10.0		102	82-128				
Chloromethane	10		"	10.0		104	43-155				
cis-1,2-Dichloroethylene	11		"	10.0		106	83-129				
cis-1,3-Dichloropropylene	10		"	10.0		102	80-131				
Cyclohexane	12		"	10.0		116	63-149				
Dibromochloromethane	10		"	10.0		99.6	80-130				
Dibromomethane	10		"	10.0		101	72-134				
Dichlorodifluoromethane	14		"	10.0		141	44-144				
Ethyl Benzene	11		"	10.0		107	80-131				
Hexachlorobutadiene	11		"	10.0		107	67-146				
Isopropylbenzene	10		"	10.0		105	76-140				
Methyl acetate	10		"	10.0		102	51-139				
Methyl tert-butyl ether (MTBE)	11		"	10.0		111	76-135				
Methylcyclohexane	11		"	10.0		112	72-143				
Methylene chloride	11		"	10.0		112	55-137				
n-Butylbenzene	11		"	10.0		111	79-132				
n-Propylbenzene	11		"	10.0		109	78-133				
o-Xylene	11		"	10.0		107	78-130				
p- & m- Xylenes	19		"	20.0		96.1	77-133				
p-Isopropyltoluene	11		"	10.0		109	81-136				
sec-Butylbenzene	11		"	10.0		114	79-137				
Styrene	10		"	10.0		103	67-132				
tert-Butyl alcohol (TBA)	57		"	50.0		115	25-162				
tert-Butylbenzene	11		"	10.0		106	77-138				
Tetrachloroethylene	7.6		"	10.0		76.5	82-131	Low Bias			
Toluene	10		"	10.0		104	80-127				
trans-1,2-Dichloroethylene	11		"	10.0		109	80-132				
trans-1,3-Dichloropropylene	10		"	10.0		101	78-131				
trans-1,4-dichloro-2-butene	10		"	10.0		102	63-141				
Trichloroethylene	10		"	10.0		104	82-128				
Trichlorofluoromethane	10		"	10.0		100	67-139				
Vinyl Chloride	11		"	10.0		107	58-145				
Surrogate: 1,2-Dichloroethane-d4	*10.3*		*"*	*10.0*		*103*	*69-130*				
Surrogate: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80792 - EPA 5030B											
LCS Dup (BH80792-BSD1)								Prepared & Analyzed: 08/16/2018			
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		102	82-126		0.681	30	
1,1,1-Trichloroethane	10		"	10.0		101	78-136		4.53	30	
1,1,2,2-Tetrachloroethane	10		"	10.0		100	76-129		3.42	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		107	54-165		8.42	30	
1,1,2-Trichloroethane	9.8		"	10.0		98.2	82-123		1.33	30	
1,1-Dichloroethane	10		"	10.0		105	82-129		3.10	30	
1,1-Dichloroethylene	9.8		"	10.0		98.2	68-138		10.6	30	
1,2,3-Trichlorobenzene	10		"	10.0		104	76-136		5.07	30	
1,2,3-Trichloropropane	9.8		"	10.0		98.3	77-128		4.57	30	
1,2,4-Trichlorobenzene	9.8		"	10.0		98.1	76-137		1.82	30	
1,2,4-Trimethylbenzene	10		"	10.0		102	82-132		2.70	30	
1,2-Dibromo-3-chloropropane	9.9		"	10.0		99.0	45-147		4.06	30	
1,2-Dibromoethane	10		"	10.0		99.8	83-124		0.400	30	
1,2-Dichlorobenzene	9.9		"	10.0		99.2	79-123		1.60	30	
1,2-Dichloroethane	11		"	10.0		106	73-132		0.844	30	
1,2-Dichloropropane	10		"	10.0		101	78-126		0.397	30	
1,3,5-Trimethylbenzene	10		"	10.0		103	80-131		2.87	30	
1,3-Dichlorobenzene	9.8		"	10.0		98.4	86-122		1.51	30	
1,4-Dichlorobenzene	9.8		"	10.0		97.5	85-124		1.43	30	
1,4-Dioxane	170		"	210		81.1	10-349		68.1	30	Non-dir.
2-Butanone	9.6		"	10.0		95.7	49-152		17.5	30	
2-Hexanone	10		"	10.0		105	51-146		2.92	30	
4-Methyl-2-pentanone	11		"	10.0		106	57-145		2.71	30	
Acetone	8.9		"	10.0		89.2	14-150		12.0	30	
Acrolein	18		"	10.0		178	10-153	High Bias	3.38	30	
Acrylonitrile	7.6		"	10.0		76.2	51-150		10.7	30	
Benzene	10		"	10.0		101	85-126		1.18	30	
Bromochloromethane	10		"	10.0		104	77-128		1.53	30	
Bromodichloromethane	10		"	10.0		101	79-128		0.596	30	
Bromoform	9.8		"	10.0		98.4	78-133		1.21	30	
Bromomethane	9.5		"	10.0		94.6	43-168		5.35	30	
Carbon disulfide	11		"	10.0		113	68-146		6.36	30	
Carbon tetrachloride	10		"	10.0		104	77-141		4.89	30	
Chlorobenzene	10		"	10.0		101	88-120		1.08	30	
Chloroethane	9.1		"	10.0		90.8	65-136		5.67	30	
Chloroform	10		"	10.0		100	82-128		1.39	30	
Chloromethane	10		"	10.0		102	43-155		1.85	30	
cis-1,2-Dichloroethylene	10		"	10.0		104	83-129		1.24	30	
cis-1,3-Dichloropropylene	10		"	10.0		101	80-131		0.494	30	
Cyclohexane	11		"	10.0		110	63-149		5.51	30	
Dibromochloromethane	10		"	10.0		102	80-130		2.18	30	
Dibromomethane	10		"	10.0		100	72-134		0.598	30	
Dichlorodifluoromethane	13		"	10.0		132	44-144		6.65	30	
Ethyl Benzene	11		"	10.0		105	80-131		1.70	30	
Hexachlorobutadiene	10		"	10.0		104	67-146		2.94	30	
Isopropylbenzene	10		"	10.0		102	76-140		2.61	30	
Methyl acetate	9.2		"	10.0		92.3	51-139		9.79	30	
Methyl tert-butyl ether (MTBE)	11		"	10.0		108	76-135		2.01	30	
Methylcyclohexane	11		"	10.0		107	72-143		4.31	30	
Methylene chloride	11		"	10.0		106	55-137		5.40	30	
n-Butylbenzene	11		"	10.0		108	79-132		2.74	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80792 - EPA 5030B											
LCS Dup (BH80792-BSD1)								Prepared & Analyzed: 08/16/2018			
n-Propylbenzene	10		ug/L	10.0		105	78-133		3.75	30	
o-Xylene	11		"	10.0		106	78-130		1.69	30	
p- & m- Xylenes	19		"	20.0		94.3	77-133		1.89	30	
p-Isopropyltoluene	10		"	10.0		105	81-136		3.65	30	
sec-Butylbenzene	11		"	10.0		109	79-137		4.23	30	
Styrene	10		"	10.0		100	67-132		2.17	30	
tert-Butyl alcohol (TBA)	43		"	50.0		86.2	25-162		28.4	30	
tert-Butylbenzene	10		"	10.0		103	77-138		3.73	30	
Tetrachloroethylene	7.4		"	10.0		73.9	82-131	Low Bias	3.46	30	
Toluene	10		"	10.0		102	80-127		2.13	30	
trans-1,2-Dichloroethylene	11		"	10.0		106	80-132		3.36	30	
trans-1,3-Dichloropropylene	10		"	10.0		101	78-131		0.198	30	
trans-1,4-dichloro-2-butene	10		"	10.0		99.9	63-141		1.98	30	
Trichloroethylene	10		"	10.0		101	82-128		2.24	30	
Trichlorofluoromethane	9.3		"	10.0		92.9	67-139		7.56	30	
Vinyl Chloride	10		"	10.0		100	58-145		6.19	30	
Surrogate: 1,2-Dichloroethane-d4	*10.4*		*"*	*10.0*		*104*	*69-130*				
Surrogate: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*81-117*				
Surrogate: p-Bromofluorobenzene	*9.98*		*"*	*10.0*		*99.8*	*79-122*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
Blank (BH80648-BLK1)								Prepared & Analyzed: 08/14/2018			
1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2,4-Trichlorobenzene	ND	5.00	"								
1,2-Dichlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
1,3-Dichlorobenzene	ND	5.00	"								
1,4-Dichlorobenzene	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acenaphthene	ND	0.0500	"								
Acenaphthylene	ND	0.0500	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	20.0	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Benzoic acid	ND	50.0	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
Blank (BH80648-BLK1)								Prepared & Analyzed: 08/14/2018			
Caprolactam	ND	5.00	ug/L								
Carbazole	ND	5.00	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachlorocyclopentadiene	ND	5.00	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Isophorone	ND	5.00	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Phenol	ND	5.00	"								
Pyrene	ND	0.0500	"								
Surrogate: 2-Fluorophenol	*25.3*		*"*	*50.0*		*50.5*	*19.7-63.1*				
Surrogate: Phenol-d5	*13.3*		*"*	*50.0*		*26.6*	*10.1-41.7*				
Surrogate: Nitrobenzene-d5	*20.4*		*"*	*25.0*		*81.7*	*50.2-113*				
Surrogate: 2-Fluorobiphenyl	*26.1*		*"*	*25.0*		*105*	*39.9-105*				
Surrogate: 2,4,6-Tribromophenol	*50.6*		*"*	*50.0*		*101*	*39.3-151*				
Surrogate: Terphenyl-d14	*27.8*		*"*	*25.0*		*111*	*30.7-106*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
Blank (BH80648-BLK2)								Prepared & Analyzed: 08/14/2018			
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								
LCS (BH80648-BS1)								Prepared & Analyzed: 08/14/2018			
1,1-Biphenyl	21.8	5.00	ug/L	25.0		87.2	21-102				
1,2,4,5-Tetrachlorobenzene	22.7	5.00	"	25.0		90.8	28-105				
1,2,4-Trichlorobenzene	24.0	5.00	"	25.0		96.2	35-91	High Bias			
1,2-Dichlorobenzene	21.1	5.00	"	25.0		84.6	42-85				
1,2-Diphenylhydrazine (as Azobenzene)	21.0	5.00	"	25.0		84.0	16-137				
1,3-Dichlorobenzene	20.0	5.00	"	25.0		79.8	45-80				
1,4-Dichlorobenzene	17.9	5.00	"	25.0		71.6	42-82				
2,3,4,6-Tetrachlorophenol	48.3	5.00	"	25.0		193	30-130	High Bias			
2,4,5-Trichlorophenol	25.7	5.00	"	25.0		103	36-112				
2,4,6-Trichlorophenol	25.2	5.00	"	25.0		101	41-107				
2,4-Dichlorophenol	27.4	5.00	"	25.0		110	43-92	High Bias			
2,4-Dimethylphenol	23.2	5.00	"	25.0		92.8	25-92	High Bias			
2,4-Dinitrophenol	35.4	5.00	"	25.0		141	10-149				
2,4-Dinitrotoluene	24.3	5.00	"	25.0		97.0	41-114				
2,6-Dinitrotoluene	24.1	5.00	"	25.0		96.3	49-106				
2-Chloronaphthalene	22.0	5.00	"	25.0		88.0	40-96				
2-Chlorophenol	20.0	5.00	"	25.0		80.1	35-84				
2-Methylnaphthalene	23.6	5.00	"	25.0		94.3	33-101				
2-Methylphenol	16.9	5.00	"	25.0		67.5	10-90				
2-Nitroaniline	20.2	5.00	"	25.0		80.7	31-122				
2-Nitrophenol	24.2	5.00	"	25.0		96.9	37-97				
3- & 4-Methylphenols	14.0	5.00	"	25.0		56.0	10-101				
3,3-Dichlorobenzidine	23.6	5.00	"	25.0		94.3	25-155				
3-Nitroaniline	17.5	5.00	"	25.0		70.0	29-128				
4,6-Dinitro-2-methylphenol	29.9	5.00	"	25.0		119	10-135				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
LCS (BH80648-BS1)							Prepared & Analyzed: 08/14/2018				
4-Bromophenyl phenyl ether	23.4	5.00	ug/L	25.0		93.5	38-116				
4-Chloro-3-methylphenol	22.4	5.00	"	25.0		89.7	28-101				
4-Chloroaniline	13.9	5.00	"	25.0		55.8	10-154				
4-Chlorophenyl phenyl ether	23.1	5.00	"	25.0		92.3	34-112				
4-Nitroaniline	18.2	5.00	"	25.0		72.8	15-143				
4-Nitrophenol	10.2	5.00	"	25.0		40.8	10-112				
Acenaphthene	19.5	0.0500	"	25.0		78.1	24-114				
Acenaphthylene	20.0	0.0500	"	25.0		80.0	26-112				
Acetophenone	20.0	5.00	"	25.0		79.9	47-92				
Aniline	7.41	5.00	"	25.0		29.6	10-107				
Anthracene	20.3	0.0500	"	25.0		81.1	35-114				
Atrazine	25.4	0.500	"	25.0		101	43-101				
Benzaldehyde	21.6	5.00	"	25.0		86.4	17-117				
Benzo(a)anthracene	23.9	0.0500	"	25.0		95.7	38-127				
Benzo(a)pyrene	24.1	0.0500	"	25.0		96.5	30-146				
Benzo(b)fluoranthene	24.7	0.0500	"	25.0		98.7	36-145				
Benzo(g,h,i)perylene	20.0	0.0500	"	25.0		80.1	10-163				
Benzo(k)fluoranthene	22.6	0.0500	"	25.0		90.4	16-149				
Benzoic acid	ND	50.0	"	25.4			30-130	Low Bias			
Benzyl alcohol	15.5	5.00	"	25.0		62.1	18-75				
Benzyl butyl phthalate	23.5	5.00	"	25.0		94.0	28-129				
Bis(2-chloroethoxy)methane	23.3	5.00	"	25.0		93.4	27-112				
Bis(2-chloroethyl)ether	18.1	5.00	"	25.0		72.6	24-114				
Bis(2-chloroisopropyl)ether	20.3	5.00	"	25.0		81.1	21-124				
Bis(2-ethylhexyl)phthalate	23.3	0.500	"	25.0		93.2	10-171				
Caprolactam	4.53	5.00	"	25.0		18.1	10-29				
Carbazole	24.4	5.00	"	25.0		97.5	49-116				
Chrysene	21.7	0.0500	"	25.0		86.8	33-120				
Dibenzo(a,h)anthracene	21.4	0.0500	"	25.0		85.5	10-149				
Dibenzofuran	22.3	5.00	"	25.0		89.0	42-105				
Diethyl phthalate	23.6	5.00	"	25.0		94.3	38-112				
Dimethyl phthalate	23.1	5.00	"	25.0		92.4	49-106				
Di-n-butyl phthalate	20.4	5.00	"	25.0		81.7	36-110				
Di-n-octyl phthalate	23.9	5.00	"	25.0		95.6	12-149				
Fluoranthene	20.8	0.0500	"	25.0		83.0	33-126				
Fluorene	20.2	0.0500	"	25.0		80.7	28-117				
Hexachlorobenzene	19.4	0.0200	"	25.0		77.8	27-120				
Hexachlorobutadiene	23.5	0.500	"	25.0		93.9	25-106				
Hexachlorocyclopentadiene	12.8	5.00	"	25.0		51.2	10-99				
Hexachloroethane	17.5	0.500	"	25.0		70.0	33-84				
Indeno(1,2,3-cd)pyrene	21.3	0.0500	"	25.0		85.2	10-150				
Isophorone	22.2	5.00	"	25.0		88.6	29-115				
Naphthalene	19.6	0.0500	"	25.0		78.3	30-99				
Nitrobenzene	21.5	0.250	"	25.0		86.2	32-113				
N-Nitrosodimethylamine	11.1	0.500	"	25.0		44.2	10-63				
N-nitroso-di-n-propylamine	20.5	5.00	"	25.0		81.9	36-118				
N-Nitrosodiphenylamine	27.0	5.00	"	25.0		108	27-145				
Pentachlorophenol	25.3	0.250	"	25.0		101	19-127				
Phenanthrene	20.4	0.0500	"	25.0		81.4	31-112				
Phenol	8.00	5.00	"	25.0		32.0	10-37				
Pyrene	23.0	0.0500	"	25.0		92.0	42-125				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
LCS (BH80648-BS1)							Prepared & Analyzed: 08/14/2018				
Surrogate: 2-Fluorophenol	*29.4*		*ug/L*	*50.0*		*58.7*	*19.7-63.1*				
Surrogate: Phenol-d5	*15.2*		*"*	*50.0*		*30.5*	*10.1-41.7*				
Surrogate: Nitrobenzene-d5	*21.8*		*"*	*25.0*		*87.3*	*50.2-113*				
Surrogate: 2-Fluorobiphenyl	*26.1*		*"*	*25.0*		*104*	*39.9-105*				
Surrogate: 2,4,6-Tribromophenol	*60.2*		*"*	*50.0*		*120*	*39.3-151*				
Surrogate: Terphenyl-d14	*29.7*		*"*	*25.0*		*119*	*30.7-106*				
LCS (BH80648-BS2)							Prepared & Analyzed: 08/14/2018				
Acenaphthene	0.780	0.0500	ug/L	1.00		78.0	24-114				
Acenaphthylene	0.810	0.0500	"	1.00		81.0	26-112				
Anthracene	0.850	0.0500	"	1.00		85.0	35-114				
Atrazine	ND	0.500	"				43-101				
Benzo(a)anthracene	0.900	0.0500	"	1.00		90.0	38-127				
Benzo(a)pyrene	0.900	0.0500	"	1.00		90.0	30-146				
Benzo(b)fluoranthene	0.910	0.0500	"	1.00		91.0	36-145				
Benzo(g,h,i)perylene	0.970	0.0500	"	1.00		97.0	10-163				
Benzo(k)fluoranthene	0.900	0.0500	"	1.00		90.0	16-149				
Bis(2-ethylhexyl)phthalate	0.710	0.500	"	1.00		71.0	10-171				
Chrysene	0.820	0.0500	"	1.00		82.0	33-120				
Dibenzo(a,h)anthracene	0.960	0.0500	"	1.00		96.0	10-149				
Fluoranthene	0.980	0.0500	"	1.00		98.0	33-126				
Fluorene	0.890	0.0500	"	1.00		89.0	28-117				
Hexachlorobenzene	1.03	0.0200	"	1.00		103	27-120				
Hexachlorobutadiene	0.800	0.500	"	1.00		80.0	25-106				
Hexachloroethane	0.600	0.500	"	1.00		60.0	33-84				
Indeno(1,2,3-cd)pyrene	0.960	0.0500	"	1.00		96.0	10-150				
Naphthalene	0.800	0.0500	"	1.00		80.0	30-99				
Nitrobenzene	0.870	0.250	"	1.00		87.0	32-113				
N-Nitrosodimethylamine	ND	0.500	"	1.00			10-63	Low Bias			
Pentachlorophenol	1.17	0.250	"	1.00		117	19-127				
Phenanthrene	0.900	0.0500	"	1.00		90.0	31-112				
Pyrene	0.870	0.0500	"	1.00		87.0	42-125				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
LCS Dup (BH80648-BSD1)								Prepared & Analyzed: 08/14/2018			
1,1-Biphenyl	21.6	5.00	ug/L	25.0		86.4	21-102		0.922	20	
1,2,4,5-Tetrachlorobenzene	26.6	5.00	"	25.0		106	28-105	High Bias	15.6	20	
1,2,4-Trichlorobenzene	26.6	5.00	"	25.0		107	35-91	High Bias	10.3	20	
1,2-Dichlorobenzene	20.6	5.00	"	25.0		82.3	42-85		2.73	20	
1,2-Diphenylhydrazine (as Azobenzene)	18.0	5.00	"	25.0		71.8	16-137		15.6	20	
1,3-Dichlorobenzene	22.4	5.00	"	25.0		89.4	45-80	High Bias	11.3	20	
1,4-Dichlorobenzene	18.2	5.00	"	25.0		72.9	42-82		1.72	20	
2,3,4,6-Tetrachlorophenol	54.2	5.00	"	25.0		217	30-130	High Bias	11.6	20	
2,4,5-Trichlorophenol	25.2	5.00	"	25.0		101	36-112		1.93	20	
2,4,6-Trichlorophenol	26.8	5.00	"	25.0		107	41-107		6.08	20	
2,4-Dichlorophenol	27.9	5.00	"	25.0		112	43-92	High Bias	1.77	20	
2,4-Dimethylphenol	21.4	5.00	"	25.0		85.8	25-92		7.88	20	
2,4-Dinitrophenol	39.8	5.00	"	25.0		159	10-149	High Bias	11.8	20	
2,4-Dinitrotoluene	27.3	5.00	"	25.0		109	41-114		11.9	20	
2,6-Dinitrotoluene	25.7	5.00	"	25.0		103	49-106		6.35	20	
2-Chloronaphthalene	22.1	5.00	"	25.0		88.3	40-96		0.363	20	
2-Chlorophenol	20.4	5.00	"	25.0		81.6	35-84		1.88	20	
2-Methylnaphthalene	22.4	5.00	"	25.0		89.8	33-101		4.91	20	
2-Methylphenol	15.5	5.00	"	25.0		62.1	10-90		8.34	20	
2-Nitroaniline	22.8	5.00	"	25.0		91.1	31-122		12.1	20	
2-Nitrophenol	24.6	5.00	"	25.0		98.5	37-97	High Bias	1.68	20	
3- & 4-Methylphenols	14.4	5.00	"	25.0		57.6	10-101		2.82	20	
3,3-Dichlorobenzidine	23.0	5.00	"	25.0		92.2	25-155		2.23	20	
3-Nitroaniline	17.9	5.00	"	25.0		71.6	29-128		2.37	20	
4,6-Dinitro-2-methylphenol	31.0	5.00	"	25.0		124	10-135		3.68	20	
4-Bromophenyl phenyl ether	23.8	5.00	"	25.0		95.3	38-116		1.86	20	
4-Chloro-3-methylphenol	25.3	5.00	"	25.0		101	28-101		11.9	20	
4-Chloroaniline	14.1	5.00	"	25.0		56.4	10-154		1.07	20	
4-Chlorophenyl phenyl ether	26.5	5.00	"	25.0		106	34-112		13.8	20	
4-Nitroaniline	18.3	5.00	"	25.0		73.4	15-143		0.821	20	
4-Nitrophenol	10.8	5.00	"	25.0		43.2	10-112		5.71	20	
Acenaphthene	19.8	0.0500	"	25.0		79.0	24-114		1.22	20	
Acenaphthylene	21.1	0.0500	"	25.0		84.6	26-112		5.49	20	
Acetophenone	21.0	5.00	"	25.0		84.0	47-92		5.03	20	
Aniline	8.65	5.00	"	25.0		34.6	10-107		15.4	20	
Anthracene	20.8	0.0500	"	25.0		83.1	35-114		2.48	20	
Atrazine	25.0	0.500	"	25.0		99.9	43-101		1.47	20	
Benzaldehyde	24.3	5.00	"	25.0		97.2	17-117		11.7	20	
Benzo(a)anthracene	22.3	0.0500	"	25.0		89.0	38-127		7.19	20	
Benzo(a)pyrene	23.3	0.0500	"	25.0		93.0	30-146		3.63	20	
Benzo(b)fluoranthene	24.1	0.0500	"	25.0		96.4	36-145		2.38	20	
Benzo(g,h,i)perylene	22.4	0.0500	"	25.0		89.6	10-163		11.3	20	
Benzo(k)fluoranthene	23.9	0.0500	"	25.0		95.6	16-149		5.68	20	
Benzoic acid	ND	50.0	"	25.4			30-130	Low Bias		20	
Benzyl alcohol	15.3	5.00	"	25.0		61.2	18-75		1.56	20	
Benzyl butyl phthalate	22.6	5.00	"	25.0		90.4	28-129		3.86	20	
Bis(2-chloroethoxy)methane	24.2	5.00	"	25.0		96.6	27-112		3.41	20	
Bis(2-chloroethyl)ether	20.6	5.00	"	25.0		82.2	24-114		12.5	20	
Bis(2-chloroisopropyl)ether	19.1	5.00	"	25.0		76.5	21-124		5.84	20	
Bis(2-ethylhexyl)phthalate	22.8	0.500	"	25.0		91.1	10-171		2.30	20	
Caprolactam	4.91	5.00	"	25.0		19.6	10-29		8.05	20	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80648 - EPA 3510C											
LCS Dup (BH80648-BSD1)							Prepared & Analyzed: 08/14/2018				
Carbazole	25.6	5.00	ug/L	25.0		102	49-116		4.96	20	
Chrysene	20.2	0.0500	"	25.0		81.0	33-120		6.91	20	
Dibenzo(a,h)anthracene	23.1	0.0500	"	25.0		92.4	10-149		7.78	20	
Dibenzofuran	23.6	5.00	"	25.0		94.2	42-105		5.63	20	
Diethyl phthalate	25.3	5.00	"	25.0		101	38-112		6.92	20	
Dimethyl phthalate	24.5	5.00	"	25.0		97.8	49-106		5.72	20	
Di-n-butyl phthalate	22.3	5.00	"	25.0		89.4	36-110		8.98	20	
Di-n-octyl phthalate	22.0	5.00	"	25.0		88.0	12-149		8.28	20	
Fluoranthene	23.8	0.0500	"	25.0		95.3	33-126		13.8	20	
Fluorene	23.6	0.0500	"	25.0		94.3	28-117		15.6	20	
Hexachlorobenzene	21.0	0.0200	"	25.0		84.0	27-120		7.62	20	
Hexachlorobutadiene	25.0	0.500	"	25.0		100	25-106		6.31	20	
Hexachlorocyclopentadiene	14.2	5.00	"	25.0		56.9	10-99		10.5	20	
Hexachloroethane	18.8	0.500	"	25.0		75.1	33-84		7.11	20	
Indeno(1,2,3-cd)pyrene	23.7	0.0500	"	25.0		94.8	10-150		10.7	20	
Isophorone	23.1	5.00	"	25.0		92.2	29-115		3.98	20	
Naphthalene	19.0	0.0500	"	25.0		76.0	30-99		2.95	20	
Nitrobenzene	20.6	0.250	"	25.0		82.4	32-113		4.51	20	
N-Nitrosodimethylamine	12.4	0.500	"	25.0		49.6	10-63		11.3	20	
N-nitroso-di-n-propylamine	20.9	5.00	"	25.0		83.6	36-118		2.08	20	
N-Nitrosodiphenylamine	26.7	5.00	"	25.0		107	27-145		0.968	20	
Pentachlorophenol	27.3	0.250	"	25.0		109	19-127		7.53	20	
Phenanthrene	22.4	0.0500	"	25.0		89.8	31-112		9.77	20	
Phenol	7.61	5.00	"	25.0		30.4	10-37		5.00	20	
Pyrene	21.5	0.0500	"	25.0		86.0	42-125		6.83	20	
Surrogate: 2-Fluorophenol	*29.4*		*"*	*50.0*		*58.9*	*19.7-63.1*				
Surrogate: Phenol-d5	*15.9*		*"*	*50.0*		*31.8*	*10.1-41.7*				
Surrogate: Nitrobenzene-d5	*23.8*		*"*	*25.0*		*95.0*	*50.2-113*				
Surrogate: 2-Fluorobiphenyl	*26.1*		*"*	*25.0*		*104*	*39.9-105*				
Surrogate: 2,4,6-Tribromophenol	*60.7*		*"*	*50.0*		*121*	*39.3-151*				
Surrogate: Terphenyl-d14	*29.4*		*"*	*25.0*		*118*	*30.7-106*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80646 - EPA SW846-3510C Low Level											
Blank (BH80646-BLK1)								Prepared: 08/14/2018 Analyzed: 08/15/2018			
4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
alpha-Chlordane	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
Chlordane, total	ND	0.0200	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
gamma-Chlordane	ND	0.0100	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
Surrogate: Decachlorobiphenyl	*0.111*		*"*	*0.201*		*55.4*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.105*		*"*	*0.202*		*51.9*	*30-150*				
LCS (BH80646-BS1)								Prepared: 08/14/2018 Analyzed: 08/15/2018			
4,4'-DDD	0.119	0.00400	ug/L	0.100		119	40-140				
4,4'-DDE	0.105	0.00400	"	0.100		105	40-140				
4,4'-DDT	0.119	0.00400	"	0.100		119	40-140				
Aldrin	0.105	0.00400	"	0.100		105	40-140				
alpha-BHC	0.115	0.00400	"	0.100		115	40-140				
alpha-Chlordane	0.103	0.00400	"	0.100		103	40-140				
beta-BHC	0.0985	0.00400	"	0.100		98.5	40-140				
delta-BHC	0.119	0.00400	"	0.100		119	40-140				
Dieldrin	0.0923	0.00200	"	0.100		92.3	40-140				
Endosulfan I	0.105	0.00400	"	0.100		105	40-140				
Endosulfan II	0.112	0.00400	"	0.100		112	40-140				
Endosulfan sulfate	0.110	0.00400	"	0.100		110	40-140				
Endrin	0.114	0.00400	"	0.100		114	40-140				
Endrin aldehyde	0.110	0.0100	"	0.100		110	40-140				
Endrin ketone	0.109	0.0100	"	0.100		109	40-140				
gamma-BHC (Lindane)	0.115	0.00400	"	0.100		115	40-140				
gamma-Chlordane	0.102	0.0100	"	0.100		102	40-140				
Heptachlor	0.0987	0.00400	"	0.100		98.7	40-140				
Heptachlor epoxide	0.0973	0.00400	"	0.100		97.3	40-140				
Methoxychlor	0.105	0.00400	"	0.100		105	40-140				
Surrogate: Decachlorobiphenyl	*0.182*		*"*	*0.201*		*90.4*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.174*		*"*	*0.202*		*86.3*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch Y8H1603 - BH80158											
Performance Mix (Y8H1603-PEM1)							Prepared & Analyzed: 08/15/2018				
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.571		"	0.00			0-200				
4,4'-DDT	277		"	200		138	0-200				
Endrin	167		"	100		167	0-200				
Endrin aldehyde	2.72		"	0.00			0-200				
Endrin ketone	8.53		"	0.00			0-200				
Performance Mix (Y8H1603-PEM2)							Prepared & Analyzed: 08/15/2018				
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.496		"	0.00			0-200				
4,4'-DDT	316		"	200		158	0-200				
Endrin	185		"	100		185	0-200				
Endrin aldehyde	1.70		"	0.00			0-200				
Endrin ketone	7.15		"	0.00			0-200				
Batch Y8H2015 - BH80158											
Performance Mix (Y8H2015-PEM1)							Prepared & Analyzed: 08/17/2018				
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.766		"	0.00			0-200				
4,4'-DDT	311		"	200		156	0-200				
Endrin	189		"	100		189	0-200				
Endrin aldehyde	2.18		"	0.00			0-200				
Endrin ketone	9.22		"	0.00			0-200				
Performance Mix (Y8H2015-PEM2)							Prepared & Analyzed: 08/17/2018				
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.867		"	0.00			0-200				
4,4'-DDT	288		"	200		144	0-200				
Endrin	193		"	100		193	0-200				
Endrin aldehyde	2.52		"	0.00			0-200				
Endrin ketone	10.7		"	0.00			0-200				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch Y8H2015 - BH80158											
Performance Mix (Y8H2015-PEM3)								Prepared: 08/17/2018 Analyzed: 08/18/2018			
4,4'-DDD	0.00		ng/mL	0.00			0-200				
4,4'-DDE	0.939		"	0.00			0-200				
4,4'-DDT	292		"	200		146	0-200				
Endrin	200		"	100		200	0-200				
Endrin aldehyde	2.87		"	0.00			0-200				
Endrin ketone	10.4		"	0.00			0-200				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80646 - EPA SW846-3510C Low Level											
Blank (BH80646-BLK2)								Prepared & Analyzed: 08/14/2018			
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.202*		*"*	*0.202*		*100*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.173*		*"*	*0.201*		*86.1*	*30-120*				
LCS (BH80646-BS2)								Prepared & Analyzed: 08/14/2018			
Aroclor 1016	1.11	0.0500	ug/L	1.00		111	40-120				
Aroclor 1260	1.07	0.0500	"	1.00		107	40-120				
Surrogate: Tetrachloro-m-xylene	*0.202*		*"*	*0.202*		*100*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.167*		*"*	*0.201*		*83.1*	*30-120*				
LCS Dup (BH80646-BSD2)								Prepared: 08/14/2018 Analyzed: 08/15/2018			
Aroclor 1016	1.06	0.0500	ug/L	1.00		106	40-120		4.82	30	
Aroclor 1260	1.24	0.0500	"	1.00		124	40-120	High Bias	14.4	30	
Surrogate: Tetrachloro-m-xylene	*0.222*		*"*	*0.202*		*110*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.231*		*"*	*0.201*		*115*	*30-120*				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80751 - EPA 3015A											
Blank (BH80751-BLK1)								Prepared: 08/15/2018 Analyzed: 08/20/2018			
Aluminum	ND	10.0	ug/L								
Antimony	ND	1.00	"								
Arsenic	ND	1.00	"								
Barium	ND	1.00	"								
Beryllium	ND	0.300	"								
Cadmium	ND	0.500	"								
Chromium	ND	1.00	"								
Cobalt	ND	1.00	"								
Copper	ND	1.00	"								
Iron	74.4	10.0	"								
Lead	ND	1.00	"								
Manganese	ND	1.00	"								
Nickel	ND	1.00	"								
Selenium	ND	1.00	"								
Silver	ND	1.00	"								
Thallium	ND	1.00	"								
Vanadium	ND	1.00	"								
Zinc	ND	1.00	"								
LCS (BH80751-BS1)								Prepared: 08/15/2018 Analyzed: 08/20/2018			
Aluminum	2260		ug/L	2500		90.3	80-120				
Antimony	49.8		"	50.0		99.6	80-120				
Arsenic	46.1		"	50.0		92.2	80-120				
Barium	45.7		"	50.0		91.3	80-120				
Beryllium	45.9		"	50.0		91.9	80-120				
Cadmium	47.5		"	50.0		95.1	80-120				
Chromium	46.1		"	50.0		92.2	80-120				
Cobalt	45.0		"	50.0		90.0	80-120				
Copper	46.8		"	50.0		93.7	80-120				
Iron	2370		"	2500		94.7	80-120				
Lead	49.1		"	50.0		98.3	80-120				
Manganese	44.5		"	50.0		88.9	80-120				
Nickel	47.0		"	50.0		94.0	80-120				
Selenium	40.3		"	50.0		80.7	80-120				
Silver	48.1		"	50.0		96.2	80-120				
Thallium	47.4		"	50.0		94.9	80-120				
Vanadium	44.6		"	50.0		89.2	80-120				
Zinc	45.5		"	50.0		90.9	80-120				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80752 - EPA 3015A											
Blank (BH80752-BLK1)								Prepared: 08/15/2018 Analyzed: 08/20/2018			
Aluminum - Dissolved	ND	10.0	ug/L								
Antimony - Dissolved	ND	1.00	"								
Arsenic - Dissolved	ND	1.00	"								
Barium - Dissolved	ND	1.00	"								
Beryllium - Dissolved	ND	0.300	"								
Cadmium - Dissolved	ND	0.500	"								
Chromium - Dissolved	ND	1.00	"								
Cobalt - Dissolved	ND	1.00	"								
Copper - Dissolved	ND	1.00	"								
Iron - Dissolved	ND	10.0	"								
Lead - Dissolved	ND	1.00	"								
Manganese - Dissolved	ND	1.00	"								
Nickel - Dissolved	ND	1.00	"								
Selenium - Dissolved	ND	1.00	"								
Silver - Dissolved	ND	1.00	"								
Thallium - Dissolved	ND	1.00	"								
Vanadium - Dissolved	ND	1.00	"								
Zinc - Dissolved	ND	1.00	"								
LCS (BH80752-BS1)								Prepared: 08/15/2018 Analyzed: 08/20/2018			
Aluminum - Dissolved	2080		ug/L	2500		83.0	80-120				
Antimony - Dissolved	48.0		"	50.0		96.0	80-120				
Arsenic - Dissolved	43.8		"	50.0		87.6	80-120				
Barium - Dissolved	46.2		"	50.0		92.5	80-120				
Beryllium - Dissolved	45.3		"	50.0		90.7	80-120				
Cadmium - Dissolved	45.1		"	50.0		90.1	80-120				
Chromium - Dissolved	43.7		"	50.0		87.5	80-120				
Cobalt - Dissolved	42.2		"	50.0		84.5	80-120				
Copper - Dissolved	44.4		"	50.0		88.7	80-120				
Iron - Dissolved	2310		"	2500		92.5	80-120				
Lead - Dissolved	48.7		"	50.0		97.3	80-120				
Manganese - Dissolved	44.7		"	50.0		89.5	80-120				
Nickel - Dissolved	44.8		"	50.0		89.6	80-120				
Selenium - Dissolved	43.8		"	50.0		87.6	80-120				
Silver - Dissolved	46.3		"	50.0		92.5	80-120				
Thallium - Dissolved	47.5		"	50.0		95.0	80-120				
Vanadium - Dissolved	41.0		"	50.0		82.1	80-120				
Zinc - Dissolved	44.4		"	50.0		88.8	80-120				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80937 - EPA 7473 water											
Blank (BH80937-BLK1)								Prepared & Analyzed: 08/20/2018			
Mercury	ND	0.20	ug/L								
Reference (BH80937-SRM1)								Prepared & Analyzed: 08/20/2018			
Mercury	0.0103		mg/L	0.0100		103	70-130				
Batch BH80938 - EPA 7473 water											
Blank (BH80938-BLK1)								Prepared & Analyzed: 08/20/2018			
Mercury - Dissolved	ND	0.0002000	mg/L								
Reference (BH80938-SRM1)								Prepared & Analyzed: 08/20/2018			
Mercury - Dissolved	0.009593		mg/L	0.0100		95.9	70-130				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18H0567-01	SB-5 (GW)	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

S-08	The recovery of this surrogate was outside of QC limits.
QR-04	The RPD exceeded control limits for the LCS/LCSD QC.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
QC-LCS	LCS/LCS Dup recovery was above laboratory control limits. Sample does not contain any target compounds; therefore sample results are acceptable.
M-MBLk	Analyte was detected in the batch method blank above the Reporting Limit.
M-ISO	The ICP/MS result reported for this element used an alternate isotope due to molecular interferences encountered with the sample matrix.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
EXT-D	The sample submitted contained sediment. The aqueous portion was decanted off, the volume measured and used for the extraction. The sediment was not included in the extraction.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

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

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
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132-02 89th Ave, Queens, NY 11418
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YORK ANALYTICAL LABORATORIES INC

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 18H0567

Page 1 of 1

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: GEI Consultants	Company:	Company:		RUSH - Next Day
Address: 110 Walt Whitman Rd Huntington Station	Address:	Address: Same		RUSH - Two Day
Phone: 631-760-9300	Phone:	Phone:	YOUR Project Name: 580 Gerard Ave	RUSH - Three Day
Contact: William J. Fitchett	Contact: Wendy Montecasso	Contact: Same		RUSH - Four Day
E-mail: wfitchett@geiconsultants.com	E-mail: wmontecasso@geiconsultants.com	E-mail:	YOUR PO#:	Standard (5-7 Day)

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

William J. Fitchett

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

WJ Fitchett

Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
S - soil / solid	New York ✓	Summary Report	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)
GW - groundwater	New Jersey	QA Report	CT RCP DQA/DUE	EQuIS (Standard)	
DW - drinking water	Connecticut	NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EQuIS	
WW - wastewater	Pennsylvania	NY ASP B Package		NJDEP SRP HazSite	
O - Oil ⋮ Other	Other		NJDKQP	Other:	

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
SB-5 (GW)	GW	8/10/18 1145	TCL VOCs (8260) TCL SVOCs (8270), TAL Metals, PCBs (8082), Pesticides (8081)	(3 ambers, 2 plastics, 3 voa vials)

Comments: Please hold these pending results of SB-2 (GW)

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: _____

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
WJ Fitchett / GEI	8/13/18 1025AM	KBah	8/13/18 1025AM	KBah	8/13/18 1645
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				TC Fabbri	8/13/18 1645

Temp. Received at Lab 1.6 Degrees C

Technical Report

prepared for:

GEI Consultants, Inc
110 Walt Whitman Road, Suite 204
Huntington Station NY, 11746
Attention: Wendy Monterosso

Report Date: 08/20/2018
Client Project ID: 580 Gerald Ave
York Project (SDG) No.: 18H0548

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

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

Report Date: 08/20/2018
Client Project ID: 580 Gerald Ave
York Project (SDG) No.: 18H0548

GEI Consultants, Inc
110 Walt Whitman Road, Suite 204
Huntington Station NY, 11746
Attention: Wendy Monterosso

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 13, 2018 and listed below. The project was identified as your project: **580 Gerald Ave**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
18H0548-01	SV-1	Soil Vapor	08/10/2018	08/13/2018
18H0548-02	SV-2	Soil Vapor	08/10/2018	08/13/2018
18H0548-03	SV-3	Soil Vapor	08/10/2018	08/13/2018
18H0548-04	SV-4	Soil Vapor	08/10/2018	08/13/2018

General Notes for York Project (SDG) No.: 18H0548

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: **Date:** 08/20/2018

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **SV-1** **York Sample ID:** **18H0548-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0548	580 Gerald Ave	Soil Vapor	August 10, 2018 2:35 pm	08/13/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications:	08/16/2018 20:15	08/16/2018 20:15	LDS
71-55-6	**1,1,1-Trichloroethane**	**4.6**		ug/m³	0.84	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.2	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.84	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.15	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
95-63-6	**1,2,4-Trimethylbenzene**	**8.2**		ug/m³	0.76	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.2	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.93	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.71	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.76	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
106-99-0	**1,3-Butadiene**	**4.5**		ug/m³	1.0	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
541-73-1	**1,3-Dichlorobenzene**	**7.7**		ug/m³	0.93	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.71	1.546	EPA TO-15 Certifications:	08/16/2018 20:15	08/16/2018 20:15	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.93	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
78-93-3	**2-Butanone**	**120**		ug/m³	0.46	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	1.3	1.546	EPA TO-15 Certifications:	08/16/2018 20:15	08/16/2018 20:15	LDS

Sample Information

Client Sample ID: **SV-1** **York Sample ID:** **18H0548-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0548	580 Gerald Ave	Soil Vapor	August 10, 2018 2:35 pm	08/13/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	2.4	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
108-10-1	**4-Methyl-2-pentanone**	**8.0**		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
67-64-1	**Acetone**	**660**		ug/m³	16	34.06	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/17/2018 14:56	08/17/2018 19:31	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.34	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
71-43-2	**Benzene**	**7.6**		ug/m³	0.49	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.80	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	1.0	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
75-25-2	Bromoform	ND		ug/m³	1.6	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
74-83-9	Bromomethane	ND		ug/m³	0.60	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
75-15-0	Carbon disulfide	ND		ug/m³	0.48	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
56-23-5	Carbon tetrachloride	ND		ug/m³	0.24	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.71	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
75-00-3	Chloroethane	ND		ug/m³	0.41	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
67-66-3	Chloroform	ND		ug/m³	0.75	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
74-87-3	Chloromethane	ND		ug/m³	0.32	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.15	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.70	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
110-82-7	**Cyclohexane**	**7.2**		ug/m³	0.53	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	1.3	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
75-71-8	Dichlorodifluoromethane	ND		ug/m³	0.76	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications:	08/16/2018 20:15	08/16/2018 20:15	LDS
100-41-4	**Ethyl Benzene**	**7.5**		ug/m³	0.67	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.6	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS

Sample Information

Client Sample ID: **SV-1** **York Sample ID:** **18H0548-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0548	580 Gerald Ave	Soil Vapor	August 10, 2018 2:35 pm	08/13/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-63-0	**Isopropanol**	**140**		ug/m³	0.76	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
80-62-6	Methyl Methacrylate	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.56	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
75-09-2	Methylene chloride	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
142-82-5	**n-Heptane**	**21**		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
110-54-3	**n-Hexane**	**11**		ug/m³	0.54	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
95-47-6	**o-Xylene**	**11**		ug/m³	0.67	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
179601-23-1	**p- & m- Xylenes**	**30**		ug/m³	1.3	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.76	1.546	EPA TO-15 Certifications:	08/16/2018 20:15	08/16/2018 20:15	LDS
115-07-1	*** Propylene**	**28**		ug/m³	0.27	1.546	EPA TO-15 Certifications:	08/16/2018 20:15	08/16/2018 20:15	LDS
100-42-5	Styrene	ND		ug/m³	0.66	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
127-18-4	**Tetrachloroethylene**	**56**		ug/m³	0.26	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
109-99-9	*** Tetrahydrofuran**	**16**		ug/m³	0.91	1.546	EPA TO-15 Certifications:	08/16/2018 20:15	08/16/2018 20:15	LDS
108-88-3	**Toluene**	**26**		ug/m³	0.58	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.61	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.70	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.21	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	0.87	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.54	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.68	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.099	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 20:15	08/16/2018 20:15	LDS

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*108 %*	*70-130*

Sample Information

Client Sample ID: **SV-2** **York Sample ID:** **18H0548-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0548	580 Gerald Ave	Soil Vapor	August 10, 2018 11:28 am	08/13/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications:	08/16/2018 21:14	08/16/2018 21:14	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.84	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.2	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.84	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.15	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
95-63-6	**1,2,4-Trimethylbenzene**	**10**		ug/m³	0.76	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.2	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.93	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.71	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.76	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	1.0	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.93	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.71	1.546	EPA TO-15 Certifications:	08/16/2018 21:14	08/16/2018 21:14	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.93	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
78-93-3	**2-Butanone**	**26**		ug/m³	0.46	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	1.3	1.546	EPA TO-15 Certifications:	08/16/2018 21:14	08/16/2018 21:14	LDS
107-05-1	3-Chloropropene	ND		ug/m³	2.4	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS

Sample Information

Client Sample ID: **SV-2** **York Sample ID:** **18H0548-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0548	580 Gerald Ave	Soil Vapor	August 10, 2018 11:28 am	08/13/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
67-64-1	**Acetone**	**150**		ug/m³	0.73	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.34	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
71-43-2	**Benzene**	**4.4**		ug/m³	0.49	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.80	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	1.0	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
75-25-2	Bromoform	ND		ug/m³	1.6	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
74-83-9	Bromomethane	ND		ug/m³	0.60	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
75-15-0	**Carbon disulfide**	**12**		ug/m³	0.48	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
56-23-5	Carbon tetrachloride	ND		ug/m³	0.24	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.71	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
75-00-3	Chloroethane	ND		ug/m³	0.41	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
67-66-3	Chloroform	ND		ug/m³	0.75	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
74-87-3	**Chloromethane**	**1.6**		ug/m³	0.32	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.15	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.70	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
110-82-7	**Cyclohexane**	**3.7**		ug/m³	0.53	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	1.3	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
75-71-8	Dichlorodifluoromethane	ND		ug/m³	0.76	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications:	08/16/2018 21:14	08/16/2018 21:14	LDS
100-41-4	**Ethyl Benzene**	**7.9**		ug/m³	0.67	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.6	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
67-63-0	**Isopropanol**	**67**		ug/m³	0.76	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS

Sample Information

Client Sample ID: **SV-2** **York Sample ID:** **18H0548-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0548	580 Gerald Ave	Soil Vapor	August 10, 2018 11:28 am	08/13/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.56	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
75-09-2	**Methylene chloride**	**37**		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
142-82-5	n-Heptane	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
110-54-3	**n-Hexane**	**8.4**		ug/m³	0.54	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
95-47-6	**o-Xylene**	**11**		ug/m³	0.67	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
179601-23-1	**p- & m- Xylenes**	**31**		ug/m³	1.3	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.76	1.546	EPA TO-15 Certifications:	08/16/2018 21:14	08/16/2018 21:14	LDS
115-07-1	*** Propylene**	**15**		ug/m³	0.27	1.546	EPA TO-15 Certifications:	08/16/2018 21:14	08/16/2018 21:14	LDS
100-42-5	Styrene	ND		ug/m³	0.66	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
127-18-4	**Tetrachloroethylene**	**460**		ug/m³	5.6	33.22	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/17/2018 14:56	08/17/2018 20:17	LDS
109-99-9	*** Tetrahydrofuran**	**5.6**		ug/m³	0.91	1.546	EPA TO-15 Certifications:	08/16/2018 21:14	08/16/2018 21:14	LDS
108-88-3	**Toluene**	**18**		ug/m³	0.58	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.61	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.70	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.21	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	0.87	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.54	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.68	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.099	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 21:14	08/16/2018 21:14	LDS

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*104 %*	*70-130*

Sample Information

Client Sample ID: **SV-3** **York Sample ID:** **18H0548-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0548	580 Gerald Ave	Soil Vapor	August 10, 2018 11:02 am	08/13/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications:	08/16/2018 22:12	08/16/2018 22:12	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.84	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.2	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.84	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.15	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
95-63-6	**1,2,4-Trimethylbenzene**	**47**		ug/m³	0.76	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.2	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.93	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.71	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
108-67-8	**1,3,5-Trimethylbenzene**	**25**		ug/m³	0.76	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
106-99-0	**1,3-Butadiene**	**7.8**		ug/m³	1.0	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.93	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.71	1.546	EPA TO-15 Certifications:	08/16/2018 22:12	08/16/2018 22:12	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.93	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
78-93-3	**2-Butanone**	**62**		ug/m³	0.46	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	1.3	1.546	EPA TO-15 Certifications:	08/16/2018 22:12	08/16/2018 22:12	LDS
107-05-1	3-Chloropropene	ND		ug/m³	2.4	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS

Sample Information

Client Sample ID: **SV-3** **York Sample ID:** **18H0548-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0548	580 Gerald Ave	Soil Vapor	August 10, 2018 11:02 am	08/13/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	**4-Methyl-2-pentanone**	**8.8**		ug/m³	0.63	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-64-1	**Acetone**	**180**		ug/m³	8.2	17.33	EPA TO-15	08/17/2018 14:56	08/17/2018 21:03	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
107-13-1	Acrylonitrile	ND		ug/m³	0.34	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
71-43-2	**Benzene**	**23**		ug/m³	0.49	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
100-44-7	Benzyl chloride	ND		ug/m³	0.80	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-27-4	Bromodichloromethane	ND		ug/m³	1.0	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-25-2	Bromoform	ND		ug/m³	1.6	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-83-9	Bromomethane	ND		ug/m³	0.60	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-15-0	**Carbon disulfide**	**31**		ug/m³	0.48	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
56-23-5	Carbon tetrachloride	ND		ug/m³	0.24	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-90-7	Chlorobenzene	ND		ug/m³	0.71	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-00-3	Chloroethane	ND		ug/m³	0.41	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-66-3	**Chloroform**	**4.5**		ug/m³	0.75	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-87-3	**Chloromethane**	**3.3**		ug/m³	0.32	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.15	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.70	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-82-7	**Cyclohexane**	**46**		ug/m³	0.53	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
124-48-1	Dibromochloromethane	ND		ug/m³	1.3	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-71-8	Dichlorodifluoromethane	ND		ug/m³	0.76	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
141-78-6	* Ethyl acetate	ND		ug/m³	1.1	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications:			
100-41-4	**Ethyl Benzene**	**22**		ug/m³	0.67	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.6	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-63-0	**Isopropanol**	**60**		ug/m³	0.76	1.546	EPA TO-15	08/16/2018 22:12	08/16/2018 22:12	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: **SV-3** **York Sample ID:** **18H0548-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0548	580 Gerald Ave	Soil Vapor	August 10, 2018 11:02 am	08/13/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
1634-04-4	**Methyl tert-butyl ether (MTBE)**	**8.4**		ug/m³	0.56	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
75-09-2	**Methylene chloride**	**6.9**		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
142-82-5	**n-Heptane**	**120**		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
110-54-3	**n-Hexane**	**75**		ug/m³	0.54	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
95-47-6	**o-Xylene**	**28**		ug/m³	0.67	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
179601-23-1	**p- & m- Xylenes**	**73**		ug/m³	1.3	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
622-96-8	*** p-Ethyltoluene**	**29**		ug/m³	0.76	1.546	EPA TO-15 Certifications:	08/16/2018 22:12	08/16/2018 22:12	LDS
115-07-1	*** Propylene**	**130**	E	ug/m³	0.27	1.546	EPA TO-15 Certifications:	08/16/2018 22:12	08/16/2018 22:12	LDS
100-42-5	Styrene	ND		ug/m³	0.66	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
127-18-4	**Tetrachloroethylene**	**44**		ug/m³	0.26	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
109-99-9	*** Tetrahydrofuran**	**22**		ug/m³	0.91	1.546	EPA TO-15 Certifications:	08/16/2018 22:12	08/16/2018 22:12	LDS
108-88-3	**Toluene**	**47**		ug/m³	0.58	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.61	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.70	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.21	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	0.87	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.54	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.68	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.099	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 22:12	08/16/2018 22:12	LDS

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*101 %*	*70-130*

Sample Information

Client Sample ID: **SV-4** **York Sample ID:** **18H0548-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0548	580 Gerald Ave	Soil Vapor	August 10, 2018 11:29 am	08/13/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications:	08/16/2018 23:10	08/16/2018 23:10	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.84	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.2	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.84	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.15	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
95-63-6	**1,2,4-Trimethylbenzene**	**12**		ug/m³	0.76	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.2	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.93	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.71	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.76	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	1.0	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.93	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.71	1.546	EPA TO-15 Certifications:	08/16/2018 23:10	08/16/2018 23:10	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.93	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
78-93-3	**2-Butanone**	**25**		ug/m³	0.46	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	1.3	1.546	EPA TO-15 Certifications:	08/16/2018 23:10	08/16/2018 23:10	LDS
107-05-1	3-Chloropropene	ND		ug/m³	2.4	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS

Sample Information

Client Sample ID: **SV-4** **York Sample ID:** **18H0548-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0548	580 Gerald Ave	Soil Vapor	August 10, 2018 11:29 am	08/13/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	**4-Methyl-2-pentanone**	**3.5**		ug/m³	0.63	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-64-1	**Acetone**	**110**		ug/m³	0.73	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
107-13-1	Acrylonitrile	ND		ug/m³	0.34	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
71-43-2	**Benzene**	**3.1**		ug/m³	0.49	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
100-44-7	Benzyl chloride	ND		ug/m³	0.80	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-27-4	Bromodichloromethane	ND		ug/m³	1.0	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-25-2	Bromoform	ND		ug/m³	1.6	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-83-9	Bromomethane	ND		ug/m³	0.60	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-15-0	**Carbon disulfide**	**43**		ug/m³	0.48	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
56-23-5	Carbon tetrachloride	ND		ug/m³	0.24	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-90-7	Chlorobenzene	ND		ug/m³	0.71	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-00-3	Chloroethane	ND		ug/m³	0.41	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-66-3	Chloroform	ND		ug/m³	0.75	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-87-3	**Chloromethane**	**1.9**		ug/m³	0.32	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.15	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.70	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-82-7	**Cyclohexane**	**11**		ug/m³	0.53	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
124-48-1	Dibromochloromethane	ND		ug/m³	1.3	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-71-8	Dichlorodifluoromethane	ND		ug/m³	0.76	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
141-78-6	* Ethyl acetate	ND		ug/m³	1.1	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications:			
100-41-4	**Ethyl Benzene**	**8.2**		ug/m³	0.67	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.6	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-63-0	**Isopropanol**	**47**		ug/m³	0.76	1.546	EPA TO-15	08/16/2018 23:10	08/16/2018 23:10	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: **SV-4** **York Sample ID:** **18H0548-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18H0548	580 Gerald Ave	Soil Vapor	August 10, 2018 11:29 am	08/13/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.56	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
75-09-2	**Methylene chloride**	**6.2**		ug/m³	1.1	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
142-82-5	n-Heptane	ND		ug/m³	0.63	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
110-54-3	**n-Hexane**	**11**		ug/m³	0.54	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
95-47-6	**o-Xylene**	**12**		ug/m³	0.67	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
179601-23-1	**p- & m- Xylenes**	**32**		ug/m³	1.3	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.76	1.546	EPA TO-15 Certifications:	08/16/2018 23:10	08/16/2018 23:10	LDS
115-07-1	*** Propylene**	**27**		ug/m³	0.27	1.546	EPA TO-15 Certifications:	08/16/2018 23:10	08/16/2018 23:10	LDS
100-42-5	Styrene	ND		ug/m³	0.66	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
127-18-4	**Tetrachloroethylene**	**35**		ug/m³	0.26	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
109-99-9	*** Tetrahydrofuran**	**6.2**		ug/m³	0.91	1.546	EPA TO-15 Certifications:	08/16/2018 23:10	08/16/2018 23:10	LDS
108-88-3	**Toluene**	**22**		ug/m³	0.58	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.61	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.70	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.21	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	0.87	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.54	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.68	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.099	1.546	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	08/16/2018 23:10	08/16/2018 23:10	LDS

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*100 %*	*70-130*

Analytical Batch Summary

Batch ID: BH80908 **Preparation Method:** EPA TO15 PREP **Prepared By:** LDS

YORK Sample ID	Client Sample ID	Preparation Date
18H0548-01	SV-1	08/16/18
18H0548-02	SV-2	08/16/18
18H0548-03	SV-3	08/16/18
18H0548-04	SV-4	08/16/18
BH80908-BLK1	Blank	08/16/18
BH80908-BS1	LCS	08/16/18

Batch ID: BH80989 **Preparation Method:** EPA TO15 PREP **Prepared By:** LDS

YORK Sample ID	Client Sample ID	Preparation Date
18H0548-01RE1	SV-1	08/17/18
18H0548-02RE1	SV-2	08/17/18
18H0548-03RE1	SV-3	08/17/18
BH80989-BLK1	Blank	08/17/18
BH80989-BS1	LCS	08/17/18

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80908 - EPA TO15 PREP											
Blank (BH80908-BLK1)								Prepared & Analyzed: 08/16/2018			
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.099	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.099	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								
n-Heptane	ND	0.41	"								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80908 - EPA TO15 PREP											
Blank (BH80908-BLK1)								Prepared & Analyzed: 08/16/2018			
n-Hexane	ND	0.35	ug/m³								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.17	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.064	"								
Surrogate: p-Bromofluorobenzene	*9.27*		*ppbv*	*10.0*		*92.7*	*70-130*				
LCS (BH80908-BS1)								Prepared & Analyzed: 08/16/2018			
1,1,1,2-Tetrachloroethane	9.65		ppbv	10.0		96.5	70-130				
1,1,1-Trichloroethane	10.0		"	10.0		100	70-130				
1,1,2,2-Tetrachloroethane	9.65		"	10.0		96.5	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2		"	10.0		102	70-130				
1,1,2-Trichloroethane	9.25		"	10.0		92.5	70-130				
1,1-Dichloroethane	9.97		"	10.0		99.7	70-130				
1,1-Dichloroethylene	9.01		"	10.0		90.1	70-130				
1,2,4-Trichlorobenzene	9.49		"	10.0		94.9	70-130				
1,2,4-Trimethylbenzene	9.60		"	10.0		96.0	70-130				
1,2-Dibromoethane	9.38		"	10.0		93.8	70-130				
1,2-Dichlorobenzene	10.4		"	10.0		104	70-130				
1,2-Dichloroethane	9.54		"	10.0		95.4	70-130				
1,2-Dichloropropane	8.93		"	10.0		89.3	70-130				
1,2-Dichlorotetrafluoroethane	12.7		"	10.0		127	70-130				
1,3,5-Trimethylbenzene	8.98		"	10.0		89.8	70-130				
1,3-Butadiene	15.8		"	10.0		158	70-130	High Bias			
1,3-Dichlorobenzene	10.8		"	10.0		108	70-130				
1,3-Dichloropropane	8.92		"	10.0		89.2	70-130				
1,4-Dichlorobenzene	11.0		"	10.0		110	70-130				
1,4-Dioxane	8.45		"	10.0		84.5	70-130				
2-Butanone	9.45		"	10.0		94.5	70-130				
2-Hexanone	9.72		"	10.0		97.2	70-130				
3-Chloropropene	9.31		"	10.0		93.1	70-130				
4-Methyl-2-pentanone	9.10		"	10.0		91.0	70-130				
Acetone	8.94		"	10.0		89.4	70-130				
Acrylonitrile	10.4		"	10.0		104	70-130				
Benzene	9.60		"	10.0		96.0	70-130				
Benzyl chloride	10.4		"	10.0		104	70-130				
Bromodichloromethane	9.24		"	10.0		92.4	70-130				
Bromoform	10.2		"	10.0		102	70-130				
Bromomethane	9.77		"	10.0		97.7	70-130				
Carbon disulfide	10.9		"	10.0		109	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80908 - EPA TO15 PREP											
LCS (BH80908-BS1)							Prepared & Analyzed: 08/16/2018				
Carbon tetrachloride	9.10		ppbv	10.0		91.0	70-130				
Chlorobenzene	9.93		"	10.0		99.3	70-130				
Chloroethane	11.5		"	10.0		115	70-130				
Chloroform	9.92		"	10.0		99.2	70-130				
Chloromethane	13.4		"	10.0		134	70-130	High Bias			
cis-1,2-Dichloroethylene	9.39		"	10.0		93.9	70-130				
cis-1,3-Dichloropropylene	9.32		"	10.0		93.2	70-130				
Cyclohexane	10.1		"	10.0		101	70-130				
Dibromochloromethane	9.30		"	10.0		93.0	70-130				
Dichlorodifluoromethane	9.75		"	10.0		97.5	70-130				
Ethyl acetate	9.65		"	10.0		96.5	70-130				
Ethyl Benzene	9.22		"	10.0		92.2	70-130				
Hexachlorobutadiene	9.36		"	10.0		93.6	70-130				
Isopropanol	11.0		"	10.0		110	70-130				
Methyl Methacrylate	9.22		"	10.0		92.2	70-130				
Methyl tert-butyl ether (MTBE)	17.7		"	10.0		177	70-130	High Bias			
Methylene chloride	9.90		"	10.0		99.0	70-130				
n-Heptane	9.30		"	10.0		93.0	70-130				
n-Hexane	10.2		"	10.0		102	70-130				
o-Xylene	8.89		"	10.0		88.9	70-130				
p- & m- Xylenes	18.7		"	20.0		93.4	70-130				
p-Ethyltoluene	10.0		"	10.0		100	70-130				
Propylene	9.13		"	10.0		91.3	70-130				
Styrene	10.1		"	10.0		101	70-130				
Tetrachloroethylene	9.95		"	10.0		99.5	70-130				
Tetrahydrofuran	9.53		"	10.0		95.3	70-130				
Toluene	8.92		"	10.0		89.2	70-130				
trans-1,2-Dichloroethylene	10.4		"	10.0		104	70-130				
trans-1,3-Dichloropropylene	8.93		"	10.0		89.3	70-130				
Trichloroethylene	8.47		"	10.0		84.7	70-130				
Trichlorofluoromethane (Freon 11)	9.89		"	10.0		98.9	70-130				
Vinyl acetate	14.4		"	10.0		144	70-130	High Bias			
Vinyl bromide	10.8		"	10.0		108	70-130				
Vinyl Chloride	13.0		"	10.0		130	70-130				
Surrogate: p-Bromofluorobenzene	*10.3*		*"*	*10.0*		*103*	*70-130*				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80989 - EPA TO15 PREP											
Blank (BH80989-BLK1)								Prepared & Analyzed: 08/17/2018			
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.099	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.099	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								
n-Heptane	ND	0.41	"								
n-Hexane	ND	0.35	"								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80989 - EPA TO15 PREP											
Blank (BH80989-BLK1)								Prepared & Analyzed: 08/17/2018			
o-Xylene	ND	0.43	ug/m³								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.17	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.064	"								
Surrogate: p-Bromofluorobenzene	*9.01*		*ppbv*	*10.0*		*90.1*	*70-130*				
LCS (BH80989-BS1)								Prepared & Analyzed: 08/17/2018			
1,1,1,2-Tetrachloroethane	9.41		ppbv	10.0		94.1	70-130				
1,1,1-Trichloroethane	9.89		"	10.0		98.9	70-130				
1,1,2,2-Tetrachloroethane	9.43		"	10.0		94.3	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2		"	10.0		102	70-130				
1,1,2-Trichloroethane	9.14		"	10.0		91.4	70-130				
1,1-Dichloroethane	9.87		"	10.0		98.7	70-130				
1,1-Dichloroethylene	8.93		"	10.0		89.3	70-130				
1,2,4-Trichlorobenzene	9.12		"	10.0		91.2	70-130				
1,2,4-Trimethylbenzene	9.37		"	10.0		93.7	70-130				
1,2-Dibromoethane	9.20		"	10.0		92.0	70-130				
1,2-Dichlorobenzene	10.2		"	10.0		102	70-130				
1,2-Dichloroethane	9.45		"	10.0		94.5	70-130				
1,2-Dichloropropane	8.83		"	10.0		88.3	70-130				
1,2-Dichlorotetrafluoroethane	12.5		"	10.0		125	70-130				
1,3,5-Trimethylbenzene	8.67		"	10.0		86.7	70-130				
1,3-Butadiene	14.2		"	10.0		142	70-130	High Bias			
1,3-Dichlorobenzene	10.6		"	10.0		106	70-130				
1,3-Dichloropropane	8.76		"	10.0		87.6	70-130				
1,4-Dichlorobenzene	10.8		"	10.0		108	70-130				
1,4-Dioxane	8.32		"	10.0		83.2	70-130				
2-Butanone	9.36		"	10.0		93.6	70-130				
2-Hexanone	9.53		"	10.0		95.3	70-130				
3-Chloropropene	9.23		"	10.0		92.3	70-130				
4-Methyl-2-pentanone	8.90		"	10.0		89.0	70-130				
Acetone	8.83		"	10.0		88.3	70-130				
Acrylonitrile	10.4		"	10.0		104	70-130				
Benzene	9.51		"	10.0		95.1	70-130				
Benzyl chloride	10.0		"	10.0		100	70-130				
Bromodichloromethane	9.09		"	10.0		90.9	70-130				
Bromoform	9.95		"	10.0		99.5	70-130				
Bromomethane	9.73		"	10.0		97.3	70-130				
Carbon disulfide	10.9		"	10.0		109	70-130				
Carbon tetrachloride	8.96		"	10.0		89.6	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH80989 - EPA TO15 PREP											
LCS (BH80989-BS1)								Prepared & Analyzed: 08/17/2018			
Chlorobenzene	9.62		ppbv	10.0		96.2	70-130				
Chloroethane	11.3		"	10.0		113	70-130				
Chloroform	9.88		"	10.0		98.8	70-130				
Chloromethane	11.9		"	10.0		119	70-130				
cis-1,2-Dichloroethylene	9.21		"	10.0		92.1	70-130				
cis-1,3-Dichloropropylene	9.20		"	10.0		92.0	70-130				
Cyclohexane	9.92		"	10.0		99.2	70-130				
Dibromochloromethane	9.14		"	10.0		91.4	70-130				
Dichlorodifluoromethane	9.85		"	10.0		98.5	70-130				
Ethyl acetate	9.59		"	10.0		95.9	70-130				
Ethyl Benzene	8.97		"	10.0		89.7	70-130				
Hexachlorobutadiene	9.20		"	10.0		92.0	70-130				
Isopropanol	11.0		"	10.0		110	70-130				
Methyl Methacrylate	9.04		"	10.0		90.4	70-130				
Methyl tert-butyl ether (MTBE)	17.5		"	10.0		175	70-130	High Bias			
Methylene chloride	9.86		"	10.0		98.6	70-130				
n-Heptane	9.17		"	10.0		91.7	70-130				
n-Hexane	10.0		"	10.0		100	70-130				
o-Xylene	8.66		"	10.0		86.6	70-130				
p- & m- Xylenes	18.1		"	20.0		90.5	70-130				
p-Ethyltoluene	9.81		"	10.0		98.1	70-130				
Propylene	9.24		"	10.0		92.4	70-130				
Styrene	9.86		"	10.0		98.6	70-130				
Tetrachloroethylene	9.91		"	10.0		99.1	70-130				
Tetrahydrofuran	9.48		"	10.0		94.8	70-130				
Toluene	8.88		"	10.0		88.8	70-130				
trans-1,2-Dichloroethylene	10.2		"	10.0		102	70-130				
trans-1,3-Dichloropropylene	8.75		"	10.0		87.5	70-130				
Trichloroethylene	8.31		"	10.0		83.1	70-130				
Trichlorofluoromethane (Freon 11)	9.78		"	10.0		97.8	70-130				
Vinyl acetate	14.2		"	10.0		142	70-130	High Bias			
Vinyl bromide	10.6		"	10.0		106	70-130				
Vinyl Chloride	11.7		"	10.0		117	70-130				
Surrogate: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*70-130*				

Sample and Data Qualifiers Relating to This Work Order

QL-03	This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
CCV-A	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>30% Difference for average Rf). This applies to dectected analytes only.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

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

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

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www.yorklab.com

YORK

Field Chain-of-Custody Record - AIR

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 18H0548

Page ____ of ____

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: GEI Consultants	Company:	Company: Same		RUSH - Next Day
Address: 110 West Whitman Rd Huntington Station, NY	Address:	Address: Same		RUSH - Two Day
Phone: 631-760-9300	Phone:	Phone: Same	YOUR Project Name: 580-Gerard Ave	RUSH - Three Day
Contact: William J Fitchett	Contact: Wendy Monterosso	Contact: (Same)		RUSH - Four Day
E-mail: wfitchett@geiconsultants.com	E-mail: wmonterosso@geiconsultants.com	E-mail: Same	YOUR PO#:	Standard (5-7 Day) ✓

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

William J. Fitchett

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

WJF

Air Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
AI - Indoor Ambient Air	New York ✓	Summary Report	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)
AO - Outdoor Amb. Air	New Jersey	QA Report	CT RCP DQA/DUE	EQuIS (Standard)	
AE - Vapor Extraction Well/ Process Gas/Effluent	Connecticut	NY ASP A Package	NJDEP Reduced Deliv.	NYSDEC EQuIS	
AS - Soil Vapor/Sub-Slab	Pennsylvania	NY ASP B Package	NJDKQP	NJDEP SRP HazSite	
	Other	Other:			

Certified Canisters: Batch ___ Individual ___

Please enter the following REQUIRED Field Data

Reporting Units: ug/m³ ___ ppbv ___ ppmv ___

Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
SV-1	8/10/18 915-1435	AS	-30.0	-7.0	15529	06872	VOCs via TO-15
SV-2	8/10/18 937-1128	AS	-28.0	-5.0	23195	07083	↓
SV-3	8/10/18 928-1102	AS	-27.0	-5.0	12294	05414	↓
SV-4	8/10/18 932-1129	AS	-29.0	-5.0	28850	96869	↓

Comments:

Detection Limits Required: ≤ 1 ug/m³ ____ NYSDEC V1 Limits ____ Routine Survey ____ Other ____

Sampling Media: 6 Liter Canister ☐ Tedlar Bag ☐

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
WJF GEI	8/13/18 1025AM	KBah	8/13/18 1025AM	KBah	8/13/18
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
[illegible]	8/13/18 8AM				
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				[illegible]	8-13-18 2000

Appendix E

Electronic Database Regulatory Records Search

TOXICS TARGETING

Phase I
Environmental Database Report

580-610 Gerard Avenue
Bronx, NY 10451

July 30, 2018

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PLEASE REFER TO PAGES ONE AND FIVE FOR A DESCRIPTION OF SOME OF THE LIMITATIONS OF THIS ENVIRONMENTAL REPORT.

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- *Toxic Site Databases Analyzed In Your Report*
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- *Unmappable Sites*
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Introduction

Toxics Targeting has combined environmental database searches, extensive regulatory analysis and sophisticated mapping techniques to produce your *Environmental Report*. It checks for the presence of 25 categories of government-reported toxic sites and provides detailed, up-to-date information on each identified site. The findings of your report are presented in an easy-to-understand format that:

1. ***Maps*** the approximate locations of selected government-reported toxic sites identified on or near a specified target address.

2. ***Estimates*** the distance and direction between the target address and each identified toxic site.

3. ***Reports*** air and water permit non-compliance and other regulatory violations.

4. ***Profiles*** some aspects of the usage, manufacture, storage, handling, transport or disposal of toxic chemicals at individual sites.

5. ***Summarizes*** some potential health effect information and drinking water standards for selected chemicals reported at individual sites.

The Three Sections Of Your Report

The first section highlights your report's findings by summarizing identified sites according to: **a)** distance intervals, **b)** direction, **c)** proximity to the target address and **d)** individual site categories. In addition, the locations of all identified toxic sites are illustrated on individual maps for each radius search distance used in your report. A close-up map illustrates the locations of all identified toxic sites, at the shortest radius search distance used in your report. Finally, a map of tax parcels and a table of selected information about those parcels are included.

The second section of your report contains *Toxic Site Profiles* that provide detailed information on each identified toxic site. The information in each *Toxic Site Profile* varies according to its source. Some toxic site categories have extensive information and some have limited information. All the information is updated on a regular basis.

The third section of the report contains appendices that identify: **1)** on-site spills reported to the national Emergency Response Notification System (ERNS), **2)** various toxic sites that cannot be mapped due to incomplete or erroneous addresses or other mapping problems, **3)** codes that characterize hazardous wastes reported at various facilities, **4)** methods used to map toxic sites identified in your report and **5)** information sources used in your report.

How to Use Your Report

- Check Table One to see the number of <u>identified sites by distance intervals</u>.

- Check Table Two to see identified sites sorted by <u>direction</u>.

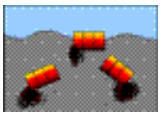
- Check Table Three to see identified sites ranked by <u>proximity to the target address</u>.

- Check Table Four to see identified sites <u>sorted by site categories</u>.

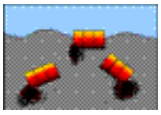
- Use Table Five to get info for the subject parcel and every parcel found on the Tax Parcel Map
- Refer to the various maps to see the locations of identified toxic sites. Refer to the *Toxic Site Profile* and *Appendix* sections for additional information.

Toxic Site Databases Analyzed In Your Report

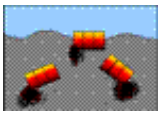
Search Radius

One-Mile 

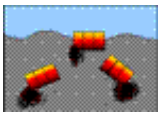
1) ***National Priority List for Federal Superfund Cleanup****:* a listing of sites known to pose environmental or health hazards that are being investigated or cleaned up under the Federal Superfund program.

Half-Mile 

2) ***Delisted National Priority List Sites****:* a listing of NPL sites that have been removed from the National Priority List.

One-Mile 

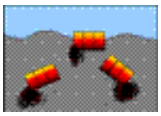
3) ***New York Inactive Hazardous Waste Disposal Site Registry****:* a state listing of sites that can pose environmental or public health hazards requiring investigation or clean up.

One-Mile 

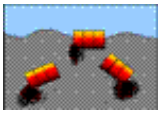
4) ***New York Inactive Hazardous Waste Disposal Site Registry Qualifying****:* a state listing of sites that qualify for possible inclusion to the NYS DEC Inactive Haz. Waste Disposal Site Registry.

One-Mile

5) ***New York and Federal RCRA Corrective Action Activity (CORRACTS):*** waste facilities with RCRA corrective action activity reported by the USEPA and NYS DEC.

Half-Mile 

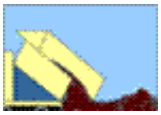
6) ***CERCLIS*** (Comprehensive Environmental Response, Compensation and Liability Information System): a federal listing of Non-NFRAP sites that can pose environmental or public health hazards requiring investigation or clean up.

Half-Mile 

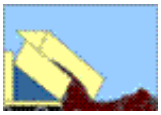
7) ***CERCLIS NFRAP:*** a federal listing of CERCLIS sites that have no further remedial action planned.

Half-Mile

8) ***NYS & NYC Brownfield Program Sites****:* a listing of sites that are abandoned, idled or under-used industrial and commercial sites where expansion or redevelopment is complicated by real or perceived environmental contamination.

Half-Mile 

9) ***New York Solid Waste Facilities Registry****:* active and inactive landfills, incinerators, transfer stations or other solid waste management facilities.

Half-Mile 

10) ***New York City 1934 Solid Waste Sites****:* a listing of solid waste disposal sites operated by New York City municipal authorities circa 1934.

Half-Mile

11) ***New York and Federal Hazardous Waste Treatment, Storage or Disposal Facilities****:* sites reported by the NYS manifest system and the USEPA's Resource Conservation and Recovery Act Information System (RCRIS). Also includes the following database:

- ***RCRA violations:*** waste facilities with violations reported by the USEPA pursuant to the Resource Conservation and Recovery Act.

Half-Mile

12) ***Toxic Spills: active and inactive or closed*** spills reported to state environmental authorities, including *remediated* and *unremediated* leaking underground storage tanks. This database includes the following categories:

- Tank Failures
- Tank Test Failures
- Unknown Spill Cause or Other Spill Causes
- Miscellaneous Spill Causes

Eighth-Mile

13) ***New York State Major Oil Storage Facilities****:* sites with more than a 400,000 gallon capacity for storing petroleum products.

Eighth-Mile

14) ***New York State Petroleum Bulk Storage Facilities****:* sites with more than an 1,100 gallon capacity for storing petroleum products.

Eighth-Mile

15) ***New York City Fire Dept Tank Data****:* tank data from 1997.

Eighth-Mile

16) ***New York and Federal Hazardous Waste Generators and Transporters****:* sites reported by the NYS manifest system and the USEPA's Resource Conservation and Recovery Act Information System (RCRA). Also includes the following database:

- ***RCRA violations:*** waste facilities with violations reported by the USEPA pursuant to the Resource Conservation and Recovery Act.

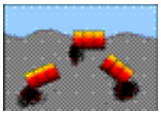
Eighth-Mile

17) ***New York Chemical Bulk Storage Facilities****:* sites storing hazardous substances listed in 6 NYCRR Part 597 in aboveground tanks with capacities of 185 gallons or more and/or underground tanks of any size

Eighth-Mile

18) ***Historic New York City Utility Sites (1890's to 1940's)****:* power generating stations, manufactured gas plants, gas storage facilities, maintenance yards and other gas and electric utility sites.

Half-Mile



19) ***New York Hazardous Substance Disposal Site Draft Study****:* a state listing of sites contaminated with toxic substances that can pose environmental or public health hazards. These sites were not eligible for state clean up funding programs.

Eighth-Mile

20) ***Federal Toxic Release Inventory Facilities****:* discharges of selected toxic chemicals to air, land, water or treatment facilities.

Eighth-Mile

21) ***Federal Air Discharges****:* air pollution point sources monitored by U.S. EPA and/or state and local air regulatory agencies.

Eighth-Mile

22) ***Federal Permit Compliance System Toxic Wastewater Discharges:*** permitted toxic wastewater discharges.

Eighth-Mile

23) ***Federal Civil and Administrative Enforcement Docket****:* judiciary cases filed on behalf of the U. S. Environmental Protection Agency by the Department of Justice.

On-site only
(250 ft)

24) ***New York City Environmental Quality Review (CEQR) – E Designation Sites****:* parcels assigned a special environmental ("E") designation under the CEQR process. E designation requires specific protocols that must be followed.

Property only

25) ***ERNS: Federal Emergency Response Notification System Spills****:* a listing of federally reported spills.

Limitations Of The Information In Your Report

The information presented in your *Environmental Report* has been obtained from various local, state and federal government agencies. Please be aware that: **1)** additional information on individual sites may be available, **2)** newly discovered sites are continually reported and **3)** all map locations are approximate. As a result, this report is intended to be the FIRST STEP in the process of identifying and evaluating possible environmental threats to specific properties and can only serve as a guide for conducting on-site visits or additional, more detailed toxic hazard research.

Toxics Targeting tries to ensure that the information in your report is presented accurately and with minimal alteration. Systematic changes are made to correct obvious address errors in order to allow sites to be mapped. Any address changes that are made are noted in the map information section at the top of each corresponding *Toxic Site Profile*. Some information that has been withheld by government authorities remains included in Toxic Site Profiles and is identified as archival information. Since the information presented in your report is not edited, please be aware that it can contain reporting errors or typographical mistakes made by the site owners/operators or government agencies that produced the information. Also please be aware of some other limitations of the information in your report:

- The digital map used by *Toxics Targeting* is the same one used by the U. S. Census or local authorities in New York City. While the map is generally accurate, no map is perfect. In addition, *Toxics Targeting's* mapping methods estimate where toxic site addresses are located if the address is not specifically designated. FOR THESE REASONS, ALL MAP LOCATIONS OF ADDRESSES AND REPORTED TOXIC SITES SHOULD BE CONSIDERED APPROXIMATE AND SHOULD BE VERIFIED BY ON-SITE VISITS;

- UNDISCOVERED, UNREPORTED OR UNMAPPABLE TOXIC SITES MIGHT NOT BE IDENTIFIED BY THIS REPORT'S CHECK OF 25 TOXIC SITE CATEGORIES. TOXIC SITES REPORTED IN OTHER GOVERNMENT DATABASES MIGHT ALSO EXIST. FOR THESE REASONS, YOUR REPORT MIGHT NOT IDENTIFY ALL THE TOXIC SITES THAT EXIST IN THE AREA IT SEARCHES;

- The appendix of your report contains a listing of sites that could not be mapped due to incomplete or erroneous address information or other mapping problems. This listing includes unmappable toxic sites in the zip codes searched for the report as well as toxic sites without zip codes reported in the same county. IF YOU WOULD LIKE INFORMATION ON ANY OF THE LISTED SITES, PLEASE CONTACT *TOXICS TARGETING AND REFER TO THE SITE ID NUMBER.*

- New York State Department of Environmental Conservation Remediation Site Borders are approximate and may not align with tax parcel boundaries mapped by local authorities or the digital map used by the US Census Bureau. As a result, Remediation Site Borders may overlap parcels that do not involve site remediation activities. Selected parcels also can involve multiple Remediation Site Borders. Refer to individual site profiles for more information. Sites without profiles include potential new sites or sites that have not yet been publicly listed by DEC.

- Some toxic sites identified in your report may be classified as **known hazards**. Most of the toxic sites identified in your report involve **potential hazards** related to the on-site use, manufacture, handling, storage, transport or disposal of toxic chemicals. <u>Some of the toxic sites identified in your report may be the addresses of parties responsible for toxic sites located elsewhere</u>. YOU SHOULD ONLY CONCLUDE THAT TOXIC HAZARDS ACTUALLY EXIST AT A SPECIFIC SITE WHEN GOVERNMENT AUTHORITIES MAKE THAT DETERMINATION OR WHEN THAT CONCLUSION IS FULLY DOCUMENTED BY THE FINDINGS OF AN APPROPRIATE SITE INVESTIGATION UNDERTAKEN BY LICENSED PROFESSIONALS;

- Compass directions and distances are approximate. Compass directions are calculated from the subject property address to the mapped location of each identified toxic site. The compass direction does not necessarily refer to the closest property boundary of an identified toxic site. The compass direction also can vary substantially for toxic sites that are located very close to the subject property address.

- The information presented in your report is a summary of the information that *Toxics Targeting* obtains from government agencies on reported toxic sites. YOU MAY BE ABLE TO OBTAIN ADDITIONAL INFORMATION ABOUT REPORTED SITES WITH THE FREEDOM OF INFORMATION REQUEST FORM LETTERS THAT ARE PROVIDED ON THE INSIDE OF THE BACK COVER.

Section One:

Report Summary

- *Table One:* *Number of Identified Toxic Sites By Distance Interval*
- *Table Two:* *Identified Toxic Sites By Direction*
- *Table Three:* *Identified Toxic Sites By Category*
- *Table Four:* *Identified Toxic Sites By Proximity*
- *Map One:* *One-Mile Radius Map*
- *Map Two:* *Half-Mile Radius Map*
- *Map Three:* *Eighth-Mile Radius Map*
- *Map Four:* *Eighth-Mile Radius Close up Map*
- *Map Five:* *Tax Parcel Map*
- *Table Five:* *Tax Parcel Map Information Table*

NUMBER OF IDENTIFIED SITES BY DISTANCE INTERVAL

Database Searched	0 − 100 ft	100 ft − 1/8 mi	1/8 mi − 1/4 mi	1/4 mi − 1/2 mi	1/2 mi − 1 mi	Site Category Totals
ASTM−Required 1 Mile Search						
National Priority List (NPL) Sites	0	0	0	0	0	0
NYS Inactive Hazardous Waste Disposal Site Registry	0	0	0	2	6	8
NYS Inactive Haz Waste Disposal Site Registry Qualifying	0	0	0	0	0	0
RCRA Corrective Action (CORRACTS) Sites	0	0	0	0	0	0
ASTM−Required 1/2 Mile Search						
Delisted National Priority List (NPL) Sites	0	0	0	0	Not searched	0
CERCLIS Superfund Non−NFRAP Sites	0	0	0	0	Not searched	0
CERCLIS Superfund NFRAP Sites	0	0	0	0	Not searched	0
Brownfields Sites						
Voluntary Cleanup Program	0	0	0	1	Not searched	1
Environmental Restoration Program	0	0	0	0	Not searched	0
Brownfield Cleanup Program	0	0	5	4	Not searched	9
NYC Voluntary Cleanup Program	0	0	1	3	Not searched	4
NYSDEC Solid Waste Facilities / Landfills	0	0	3	3	Not searched	6
RCRA Hazardous Waste Treatment, Storage, Disposal Sites	0	0	0	1	Not searched	1
NYS Toxic Spills						
Active Tank Failures	0	0	0	0	Not searched	0
Active Tank Test Failures	0	0	0	1	Not searched	1
Active Spills − Unknown / Other Causes	0	0	4	6	Not searched	10
Active Spills − Miscellaneous Causes	0	0	0	0(3)	Not searched	0(3)
Closed Tank Failures	0	0	0	7	Not searched	7
Closed Tank Test Failures	1	4	2	29	Not searched	36
Closed Spills − Unknown / Other Causes	0	21	12	59	Not searched	92
Closed Spills − Miscellaneous Causes	1	19	2(19)	18(99)	Not searched	40(118)
ASTM−Required Property & Adjacent Property (1/8 Mile Search)						
NYS Major Oil Storage Facilities	0	0	Not searched	Not searched	Not searched	0
Local & State Petroleum Bulk Storage Sites	2	18	Not searched	Not searched	Not searched	20
RCRA Hazardous Waste Generators & Transporters	3	38	Not searched	Not searched	Not searched	41
NYS Chemical Bulk Storage Sites	0	0	Not searched	Not searched	Not searched	0
Historic Utility Facilities	0	0	Not searched	Not searched	Not searched	0
ASTM−Required On−Site Only Search						
NYC Environmental Quality Review Requirements ("E") Sites*	1	0	Not searched	Not searched	Not searched	1
Emergency Response Notification System (ERNS)	0	Not searched	Not searched	Not searched	Not searched	0
Institutional Controls / Engineering Controls (IC/EC)	See databases for NPL, CERCLIS, Inactive Hazardous Waste Disposal Site Registry and Brownfield Sites.					
ASTM−Required Databases Distance Interval Totals	**8**	**100**	**29(19)**	**134(102)**	**6**	**277(121)**

Numbers in ( ) indicate spills not mapped and profiled in this report, and are listed at the end of the active and closed spills sections. See these lists for a description of the parameters involved with identifying these spills.

* NYC Environmental Quality Review Requirements ("E") Sites were searched at 250 feet.

NOTE: Table continues on next page.

Non−ASTM Databases 1/2 Mile Search						
1934 NYC Municipal Waste Landfills	0	0	1	1	Not searched	2
Hazardous Substance Waste Disposal Sites	0	0	0	0	Not searched	0
Non−ASTM Databases 1/8 Mile Search						
Toxic Release Inventory Sites (TRI)	0	0	Not searched	Not searched	Not searched	0
Permit Compliance System (PCS) Toxic Wastewater Discharges	0	0	Not searched	Not searched	Not searched	0
Air Discharges	1	4	Not searched	Not searched	Not searched	5
Civil & Administrative Enforcement Docket Facilities	0	2	Not searched	Not searched	Not searched	2
Non−ASTM Databases Distance Interval Totals	**1**	**6**	**1**	**1**	**Not Searched**	**9**
Distance Interval Totals	***9***	***106***	***30(19)***	***135(102)***	***6***	***286(121)***

Numbers in ( ) indicate spills not mapped and profiled in this report, and are listed at the end of the active and closed spills sections. See these lists for a description of the parameters involved with identifying these spills.

Identified Toxic Sites by Direction

580−610 Gerard Avenue
Bronx, NY 10451

* Compass directions can vary substantially for sites located very close to the subject property address.

Sites less than 100 feet from subject property sorted by distance

Map Id#	Site Name	Site Street	Approximate Distance & Direction From Property	Toxic Site Category
289		BLOCK: 2353 LOT: 1	0 feet	NYC Env. Qual. Review−"E" Designation
241	US POSTAL SERVICE − VMF	580 GERARD AVE	0 feet	Hazardous Waste Generator/Transporter
242	UNITED STATES POST OFFICE	580 GERARD AVE	0 feet	Hazardous Waste Generator/Transporter
243	AUTORAMA ENTERPRISES OF BRONX	610 GERARD AVE	0 feet	Hazardous Waste Generator/Transporter
282	P.O. GARRAGE	580 GERARD AVE.	0 feet	Air Discharge Site
53	USPS VEHICLE MAINT. FAC.	580 GERARD AVENUE	0 feet	Closed Status Tank Test Failure
181	USPS VEHICLE MAINT. FAC.	580 GERARD AVENUE	0 feet	Closed Status Spill (Misc. Spill Cause)
221	VEHICLE MAINTENANCE FACILITY	580 GERARD AVENUE	0 feet	Petroleum Bulk Storage Site
222	580 GERARD AVENUE	580 GERARD AVENUE	0 feet	Petroleum Bulk Storage Site

Sites between 100 ft and 660 ft from the subject property sorted by direction and distance

Map Id#	Site Name	Site Street	Approximate Distance & Direction From Property	Toxic Site Category
193	212353; GERARD AVENUE AND EAST 151 STREET	GERARD AVENUE AND EAST 151 STREET	537 feet to the N	Closed Status Spill (Misc. Spill Cause)
194	212325; GERARD AVENUE AND E151 STREET	GERARD AVENUE AND E151 STREET	537 feet to the N	Closed Status Spill (Misc. Spill Cause)
266	CON EDISON	GERARD AVE & E 151 ST	537 feet to the N	Hazardous Waste Generator/Transporter
185	HARLEM FURNITURE	620 GERARD AVE	262 feet to the NNE	Closed Status Spill (Misc. Spill Cause)
232	151 EAST 151ST STREET	151 EAST 151ST STREET	480 feet to the NNE	Petroleum Bulk Storage Site
252	CON EDISON	E 151ST ST & WALTON AVE	337 feet to the NE	Hazardous Waste Generator/Transporter
253	CONSOLIDATED EDISON	MH9515 − E 151ST ST / WALTON AVE	337 feet to the NE	Hazardous Waste Generator/Transporter
254	CON EDISON TRANSFORMER MANHOLE: 643	E 151ST ST & WALTON AVE	337 feet to the NE	Hazardous Waste Generator/Transporter
255	CON EDISON MANHOLE: 9515	E 151ST ST & WALTON AVE	337 feet to the NE	Hazardous Waste Generator/Transporter
256	CON EDISON	E. 151ST. STREET & WALTON	337 feet to the NE	Hazardous Waste Generator/Transporter
257	CON EDISON	WALTON AVE & E. 251 ST	337 feet to the NE	Hazardous Waste Generator/Transporter
258	CON EDISON	"' WALTON AVE & E 151ST ST"'	337 feet to the NE	Hazardous Waste Generator/Transporter
267	NYC DOT	WALTON AVE	548 feet to the NE	Hazardous Waste Generator/Transporter
251	CON EDISON	624 WALTON AVE	280 feet to the ENE	Hazardous Waste Generator/Transporter
262	CON EDISON MANHOLE: 9515	630 WALTON AVE	396 feet to the ENE	Hazardous Waste Generator/Transporter
187	APART	175 EAST 151 STREET	404 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
227	151ST AND WALTON LLC	175 EAST 151ST STREET	418 feet to the ENE	Petroleum Bulk Storage Site
94	SPILL NUMBER 0406130	CEDAR LANE/EAST 151 ST	399 feet to the E	Closed Status Spill (Unk/Other Cause)

95	MOBIL	611 GRAND CONCOURSE	457 feet to the E	Closed Status Spill (Unk/Other Cause)
96	MOBIL GAS 12971(17−KTA)	611 GRAND CONCOURSE	457 feet to the E	Closed Status Spill (Unk/Other Cause)
188	611 GRAND CONCOURSE	611 GRAND CONCOURSE	457 feet to the E	Closed Status Spill (Misc. Spill Cause)
189	611 GRAND CONCOURSE/MOBIL	611 GRAND CONCOURSE	457 feet to the E	Closed Status Spill (Misc. Spill Cause)
190	MOBIL GAS STATION	611 GRAND CONCOURSE	457 feet to the E	Closed Status Spill (Misc. Spill Cause)
191	GAS STATION	611 GRAND CONCOURSE	457 feet to the E	Closed Status Spill (Misc. Spill Cause)
263	MOBIL OIL CORP	611 BRAND CONCOURSE	460 feet to the E	Hazardous Waste Generator/Transporter
228	GLOBAL MONTELLO GROUP #1743	611 GRAND CONCOURSE	463 feet to the E	Petroleum Bulk Storage Site
283	MOBIL	611 GRAND CON.	466 feet to the E	Air Discharge Site
269	NYCDOT BRIDGE BIN 2241409	GRAND CONCOURSE BRG OVER	571 feet to the E	Hazardous Waste Generator/Transporter
270	MTA NYCT − JEROME LINE 4 TUNNEL TRACK 1	GRAND CONCOURSE BLVD BETWEEN	571 feet to the E	Hazardous Waste Generator/Transporter
244	CON EDISON	602 WALTON AVE	196 feet to the ESE*	Hazardous Waste Generator/Transporter
233	CONCOURSE METRO TIRE	579 GRAND CONCOURSE	506 feet to the SE	Petroleum Bulk Storage Site
268	CONSOLIDATED EDISON	EAST 150ST GRAND CONCOURSE	557 feet to the SE	Hazardous Waste Generator/Transporter
276	CON EDISON	161 E 150 ST F/O	599 feet to the SE	Hazardous Waste Generator/Transporter
91	208501; WALTON AVE & E150 ST	WALTON AVE & E150 ST	274 feet to the SSE	Closed Status Spill (Unk/Other Cause)
92	214322; WALTON AVE & E150 ST	WALTON AVE & E150 ST	274 feet to the SSE	Closed Status Spill (Unk/Other Cause)
186	138 EAST 150TH STREET	138 EAST 150TH STREET	369 feet to the SSE	Closed Status Spill (Misc. Spill Cause)
231	ENGINE COMPANY 41	150 E. 150TH STREET	477 feet to the SSE	Petroleum Bulk Storage Site
102	COMMERCIAL PROPERTY	557 GRAND CONCOURSE	568 feet to the SSE	Closed Status Spill (Unk/Other Cause)
195	GRAND CONCOURSE REALTY CO	557 GRAND CONCOURSE	568 feet to the SSE	Closed Status Spill (Misc. Spill Cause)
234	557 GRAND CONCOURSE	557 GRAND CONCOURSE	571 feet to the SSE	Petroleum Bulk Storage Site
235	JOSE PEREZ	557 GRAND CONCOURSE	571 feet to the SSE	Petroleum Bulk Storage Site
288	AMOCO	557 GRAND CONCOURSE	576 feet to the SSE	Civil & Admin. Enforcement Docket Site
285	AMOCO	557 GRAND CONCOURSE	578 feet to the SSE	Air Discharge Site
273	AMOCO SERVICE STATION	557 GRAND CONCOURSE	581 feet to the SSE	Hazardous Waste Generator/Transporter
274	557 GRAND CONCOURSE	557 GRAND CONCOURCE	581 feet to the SSE	Hazardous Waste Generator/Transporter
226	DSNY M DISTRICT 9 GARAGE	125 EAST 149TH STREET	362 feet to the SSW	Petroleum Bulk Storage Site
54	NYCDOS TANK TEST FAILURE	545 GERARD AVE / 125 EAST 149TH STREET	367 feet to the SSW	Closed Status Tank Test Failure
55	NYC DEPT OF SANITATION TTF	545 GERARD AVE	367 feet to the SSW	Closed Status Tank Test Failure
93	MANHATTAN WEST 09 DOS −DDC	125 EAST 149TH STREET	367 feet to the SSW	Closed Status Spill (Unk/Other Cause)
287	N Y C DEPT OF SANITATION	125 E 149TH ST	368 feet to the SSW	Civil & Admin. Enforcement Docket Site
260	NYCDOS	125 E 149TH ST	396 feet to the SSW	Hazardous Waste Generator/Transporter
261	MANHATTAN WEST 9	125 E 149TH ST	396 feet to the SSW	Hazardous Waste Generator/Transporter
103	MANHOLE #4506	149TH & GERARD AVE	571 feet to the SSW	Closed Status Spill (Unk/Other Cause)
196	207264; SWC GERARD AVE & E149 ST	SWC GERARD AVE & E149 ST	571 feet to the SSW	Closed Status Spill (Misc. Spill Cause)
197	MANHOLE#4510	EAST 149 ST/GERARD AVE	571 feet to the SSW	Closed Status Spill (Misc. Spill Cause)
271	CONSOLIDATED EDISON	E 149 ST & GERARD AVE	571 feet to the SSW	Hazardous Waste Generator/Transporter
89	TM625	GERARD AV / E 150TH ST	213 feet to the SW	Closed Status Spill (Unk/Other Cause)
90	221625; GERARD AVENUE	GERARD AVENUE	213 feet to the SW	Closed Status Spill (Unk/Other Cause)
182	IN SEWER OR VAULT	GERARD AV & E150TH ST	213 feet to the SW	Closed Status Spill (Misc. Spill Cause)
183	MANHOLE 4513	EAST 15TH ST − GERARD AVE	213 feet to the SW	Closed Status Spill (Misc. Spill Cause)
184	MAN HOLE #4513	GERALD AVE AND 150ST.	213 feet to the SW	Closed Status Spill (Misc. Spill Cause)
247	CONSOLIDATED EDISON	MH4513−E 150TH ST & GERARD AVE	213 feet to the SW	Hazardous Waste Generator/Transporter
248	CONSOLIDATED EDISON	TMH625−150TH ST & GERARD AVE	213 feet to the SW	Hazardous Waste Generator/Transporter
249	CONSOLIDATED EDISON − TM 625	150 & GERRARD	213 feet to the SW	Hazardous Waste Generator/Transporter
250	CON EDISON	GERARD AVE & E 150 ST	213 feet to the SW	Hazardous Waste Generator/Transporter
225	585 GERARD AVENUE CORP.	585 GERARD AVENUE	311 feet to the SW	Petroleum Bulk Storage Site

229	MOBIL S/S 17−KRQ BRONX TERMINA	99 EAST 149TH STREET	465 feet to the SW	Petroleum Bulk Storage Site
230	BP#13990	99−113 149TH STREET	465 feet to the SW	Petroleum Bulk Storage Site
284	MOBIL	99 E. 149TH ST.	473 feet to the SW	Air Discharge Site
56	SPARTAN PETROLEUM/ MOBIL STATION	99 EAST 149TH ST	475 feet to the SW	Closed Status Tank Test Failure
57	MOBIL	99 EAST 149TH ST	475 feet to the SW	Closed Status Tank Test Failure
97	MANHATTAN WEST 09 DOS −DDC	99 EAST 149TH ST	475 feet to the SW	Closed Status Spill (Unk/Other Cause)
98	MOBIL	99 EAST 149TH ST	475 feet to the SW	Closed Status Spill (Unk/Other Cause)
99	MOBIL	99 EAST 149TH STREET	475 feet to the SW	Closed Status Spill (Unk/Other Cause)
100	AMOCO SERVICE STATION	99 EAST 149TH STREET	475 feet to the SW	Closed Status Spill (Unk/Other Cause)
101	AMOCO	99 EAST 149TH ST	475 feet to the SW	Closed Status Spill (Unk/Other Cause)
192	AMOCO	99 EAST 149TH ST	475 feet to the SW	Closed Status Spill (Misc. Spill Cause)
264	BP WEST COAST PRODUCTS #13990	99 E 149TH ST	496 feet to the SW	Hazardous Waste Generator/Transporter
277	CON EDISON	EAST 149 ST & RIVERA AVE	637 feet to the SW	Hazardous Waste Generator/Transporter
278	CON EDISON	W/S E 149 ST 100 N/O E RIVER ST	637 feet to the SW	Hazardous Waste Generator/Transporter
265	PROW BUILDING	560 EXTERIOR ST	532 feet to the WSW	Hazardous Waste Generator/Transporter
259	CON EDISON	591 RIVER AVE	378 feet to the W	Hazardous Waste Generator/Transporter
104	MANHOLE 3889	EXTERIOR ST/150TH ST	638 feet to the W	Closed Status Spill (Unk/Other Cause)
105	208591; EXTERIOR ST	EXTERIOR ST	638 feet to the W	Closed Status Spill (Unk/Other Cause)
106	204710; EXTERIOR ST	EXTERIOR ST	638 feet to the W	Closed Status Spill (Unk/Other Cause)
107	NEXT TO YANKEE STADIUM	150TH /EXTERIOR STREET	638 feet to the W	Closed Status Spill (Unk/Other Cause)
108	SPILL NUMBER 0204235	MAJOR DEEGAN/150TH ST	638 feet to the W	Closed Status Spill (Unk/Other Cause)
198	MAJOR DEEGAN EXPRESS WAY	NEAR 150TH ST	638 feet to the W	Closed Status Spill (Misc. Spill Cause)
236	BRONX TERMINAL MARKET WATERFRONT PARK	EXTERIOR STREET & EAST 150TH STREET	638 feet to the W	Petroleum Bulk Storage Site
279	CONSOLIDATED EDISON	MH3895−150TH ST & EXTERIOR ST	638 feet to the W	Hazardous Waste Generator/Transporter
280	CONSOLIDATED EDISON	E 150TH ST & EXTERIOR ST	638 feet to the W	Hazardous Waste Generator/Transporter
281	CON EDISON	CROMWELL AVE E/S EXTERIOR ST	638 feet to the W	Hazardous Waste Generator/Transporter
245	DGI TRANSPORT CORP	586 RIVER AVE	201 feet to the WNW	Hazardous Waste Generator/Transporter
246	CON EDISON − MANHOLE 32269	595 GERARD AVE	201 feet to the WNW	Hazardous Waste Generator/Transporter
223	AMERICAN SELF STORAGE	586 RIVER AVENUE / 595 GERARD AVENUE	229 feet to the NW	Petroleum Bulk Storage Site
224	ST LUKE'S HOSPITAL	595 GERARD AVE	229 feet to the NW	Petroleum Bulk Storage Site
272	BJS WHOLESALE CLUB BJ0176	610 EXTERIOR ST	577 feet to the NW	Hazardous Waste Generator/Transporter
275	NYC BRONX HOUSE OF DETENTION FOR MEN	653 RIVER AVENUE	590 feet to the NW	Hazardous Waste Generator/Transporter
109	BRONX HOUSE OF DETENTION	653 RIVER AVE.	654 feet to the NW	Closed Status Spill (Unk/Other Cause)
199	NYC DEPT CORRECTIONS	653 RIVER AVE	654 feet to the NW	Closed Status Spill (Misc. Spill Cause)
200	BRONX DETENTION CENTER	653 RIVER AVE	654 feet to the NW	Closed Status Spill (Misc. Spill Cause)
286	NYS EMERGENCY ELECTRICAL PLANT	653 RIVER AVE	594 feet to the NNW	Air Discharge Site
237	BRONX HOUSE OF DETENTION FOR MEN	653 RIVER AVENUE	644 feet to the NNW	Petroleum Bulk Storage Site
238	C KENNETH IMPORTS CO.	586 CROMWELL AVE	644 feet to the NNW	Petroleum Bulk Storage Site
239	HOSANNA PAPER CO	586 CROMWELL AVE	644 feet to the NNW	Petroleum Bulk Storage Site

Sites equal to or greater than 660 ft from subject property sorted by direction and distance

Map Id#	Site Name	Site Street	Approximate Distance & Direction From Property	Toxic Site Category
135	YANKEE STADIUM PARKING LOT	RIVER AVE/ EAST 157TH ST	1936 feet to the N	Closed Status Spill (Unk/Other Cause)

136	SPILL NUMBER 0306819	E 157TH ST/RIVER AVE	1936 feet to the N	Closed Status Spill (Unk/Other Cause)
137	VAULT 5082 E 157TH ST &	E 157TH ST & RIVER AV	1936 feet to the N	Closed Status Spill (Unk/Other Cause)
75	YANKEE STADIUM	800 RUPPERT PLACE	2414 feet to the N	Closed Status Tank Test Failure
76	YANKEE STADIUM	161 STREET/RIVER AVE	2414 feet to the N	Closed Status Tank Test Failure
213	YANKEE STADIUM	153/157 STREET	2414 feet to the N	Closed Status Spill (Misc. Spill Cause)
174	218947; RUPPERT PLACE	RUPPERT PLACE	2531 feet to the N	Closed Status Spill (Unk/Other Cause)
113	MANHOLE 4526	EAST 153RD STREET+GERARD	1007 feet to the NNE	Closed Status Spill (Unk/Other Cause)
122	PRIVATE DWELLING	710 GERARD AVE	1343 feet to the NNE	Closed Status Spill (Unk/Other Cause)
22	810 RIVER	810 RIVER AVENUE	2148 feet to the NNE	Brownfields Site
23	810 RIVER AVENUE	810 RIVER AVENUE	2148 feet to the NNE	Brownfields Site
83	BROWNS CO COURT HOUSE	851 GRAND CONCOURSE	2485 feet to the NNE	Closed Status Tank Test Failure
30		FRANZ SIEGEL PARK	1370 feet to the NE	Solid Waste Facility
20	CONCOURSE VILLAGE WEST APARTMENTS − NORTH	180 EAST 156TH STREET	1534 feet to the NE	Brownfields Site
40	EXCAVATION SITE	180 EAST 156TH ST	1546 feet to the NE	Active Haz Spill (Unknown/Other Cause)
1	MOTT HAVEN MGP PLUME TRACKDOWN	CONCOURSE VILLAGE WEST AT EAST 156TH STREET	1680 feet to the NE	NYSDEC Inactive Haz Waste Disposal Site
41	PARKING GARAGE	173 E 156TH STREET	1736 feet to the NE	Active Haz Spill (Unknown/Other Cause)
65	PARKING GARAGE − TTF	751 CONCOURSE VILLAGE WEST	1736 feet to the NE	Closed Status Tank Test Failure
131	PARKING GARGAGE	751 CONCOURSE VILLAGE WES	1736 feet to the NE	Closed Status Spill (Unk/Other Cause)
149	MOTTHAVEN	790 CONCOURSE VILLAGE WES	2269 feet to the NE	Closed Status Spill (Unk/Other Cause)
153	TRANSFORMER VAULT #2190	CONCOURSE VILLAGE/EAST158	2349 feet to the NE	Closed Status Spill (Unk/Other Cause)
116	CANDLEWOOD AUTO MALL	676 GRAND CONCOURSE	1023 feet to the ENE	Closed Status Spill (Unk/Other Cause)
12	CONCOURSE VILLAGE WEST APARTMENTS − SOUTH	741 CONCOURSE VILLAGE AND 702 GRAND CONCOURSE	1154 feet to the ENE	Brownfields Site
38	RESIDENTIAL	702 GRAND CONCORDE	1165 feet to the ENE	Active Haz Spill (Unknown/Other Cause)
121	RESIDENTS	730 GRAND CONCOURSE	1249 feet to the ENE	Closed Status Spill (Unk/Other Cause)
202	730 GRAND CONCOURSE	730 GRAND CONCOURSE	1249 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
17	CONCOURSE VILLAGE WEST APARTMENTS − SOUTH	741 CONCOURSE VILLAGE AND 702 GRAND CONCOURSE	1290 feet to the ENE	Brownfields Site
19	FORMER METRO NORTH PROPERTY	730 CONCOURSE VILLAGE WEST	1514 feet to the ENE	Brownfields Site
132	PS 156	750 GRAND CONCORSE VIL W.	1865 feet to the ENE	Closed Status Spill (Unk/Other Cause)
51	775 CONCORSE VILLAGE EAST	775 CONCORSE VILLAGE EAST	2509 feet to the ENE	Closed Status Tank Failure
172	HIGHRISE BUILDING	775 CONCOURSE VILL EAST	2509 feet to the ENE	Closed Status Spill (Unk/Other Cause)
173	STORAGE UNIT	773 CONCOURSE VILLAGE E	2509 feet to the ENE	Closed Status Spill (Unk/Other Cause)
214	775 CONCOURSE VILLAGE E	775 CONCOURSE VILLAGE E	2509 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
215	775 CONCOURSE VILLAGE E	775 CONCOURSE VILLAGE E	2509 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
216	775 CONCORD VILLAGE E/BX	775 CONCORD VILLAGE EAST	2509 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
217	MULTI FAM DWG/COMM	775 CONCOURSE VILLAGE	2509 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
62	APARTMENT	635 MORRIS AVE	1603 feet to the E	Closed Status Tank Test Failure
48	EXCAVATION	675 MORRIS AVE	1745 feet to the E	Closed Status Tank Failure
134	211656; MORRIS AVE AND E 153 ST	MORRIS AVE AND E 153 ST	1914 feet to the E	Closed Status Spill (Unk/Other Cause)
142	TECHNIC AUTO SERVICES CORP	699 MORRIS AVE.	2013 feet to the E	Closed Status Spill (Unk/Other Cause)
77	MELROSE−NYCHA	304 E 156TH ST	2434 feet to the E	Closed Status Tank Test Failure
78	MELROSE HOUSES	304 E 156TH ST	2434 feet to the E	Closed Status Tank Test Failure
79	MELROSE HOUSES	304 E 156TH ST	2434 feet to the E	Closed Status Tank Test Failure
80	MELROSE HOUSES −NYCHA	304 E 156TH ST	2434 feet to the E	Closed Status Tank Test Failure
81	MELROSE HOUSES	304 E 156TH ST	2434 feet to the E	Closed Status Tank Test Failure
82	MELROSE HOUSES −NYCHA	304 E 156TH ST	2434 feet to the E	Closed Status Tank Test Failure
167	MELROSE −NYCHA	304 E 156TH ST	2434 feet to the E	Closed Status Spill (Unk/Other Cause)
168	MELROSE HOUSE −NYCHA	304 E 156TH ST	2434 feet to the E	Closed Status Spill (Unk/Other Cause)
6	FORMER MELROSE AVENUE DRY CLEANER	753 MELROSE AVENUE	3531 feet to the E	NYSDEC Inactive Haz Waste Disposal Site
8	BRONXCHESTER URA SITE 1A	BROOK AVENUE AT EAST 156TH STREET	4465 feet to the E	NYSDEC Inactive Haz Waste Disposal Site

47	225 EAST 149TH ST/BX	225 EAST 149TH STREET	1525 feet to the ESE	Closed Status Tank Failure
124	VAULT # 3200	231 EAST 149 ST NEAR PARK AVE	1525 feet to the ESE	Closed Status Spill (Unk/Other Cause)
150	MANHOLE #7087	IFO 301 E 149TH SR	2287 feet to the ESE	Closed Status Spill (Unk/Other Cause)
35	UNDERGROUND TANK	234 EAST 149TH ST	1701 feet to the SE	Active Tank Test Failure
63	LINCOLN HOSPITAL TTF	234 EAST 149TH STREET	1701 feet to the SE	Closed Status Tank Test Failure
64	LINCOLN MEDICAL CENTER	234 EAST 149TH ST	1701 feet to the SE	Closed Status Tank Test Failure
128	LINCOLN HOSPITAL AMBULANCE BAY	234 EAST 149	1701 feet to the SE	Closed Status Spill (Unk/Other Cause)
129	LINCOLN HOSPITAL	234 E 149TH ST	1701 feet to the SE	Closed Status Spill (Unk/Other Cause)
52	PATTERSON HOUSES	301 EAST 143RD STREET	2594 feet to the SE	Closed Status Tank Failure
87	PATTERSON HOUSES −NYCHA	301 EAST 143RD STREET	2594 feet to the SE	Closed Status Tank Test Failure
178	PATTERSON HOUSES −NYCHA	301 EAST 143RD STREET	2594 feet to the SE	Closed Status Spill (Unk/Other Cause)
219	PATTERSON HOUSES −NYCHA	301 EAST 143RD STREET	2594 feet to the SE	Closed Status Spill (Misc. Spill Cause)
201	149TH ST & GRAND CONCOURS	149TH ST & GRAND CONCOURS	764 feet to the SSE	Closed Status Spill (Misc. Spill Cause)
59	500 GRAND CONCOURSE	500 GRAND CONCOURSE	1021 feet to the SSE	Closed Status Tank Test Failure
115	HOSTOS COMMUNITY COLLEGE	500 GRAND CONCOURSE	1021 feet to the SSE	Closed Status Spill (Unk/Other Cause)
203	VAULT # 612	EAST 146 ST AND PARK AVE	1485 feet to the SSE	Closed Status Spill (Misc. Spill Cause)
61	COMMERCAIL BUILD	200 EAST 146TH STREET	1586 feet to the SSE	Closed Status Tank Test Failure
130	215 E 144TH STREET	215 E 144TH STREET	1715 feet to the SSE	Closed Status Spill (Unk/Other Cause)
66	PREMIER METALS	381 CANAL PLACE	1872 feet to the SSE	Closed Status Tank Test Failure
67	381 CANAL PLACE	381 CANAL PLACE	1872 feet to the SSE	Closed Status Tank Test Failure
133	381 CANAL PLACE	381 CANAL PLACE	1872 feet to the SSE	Closed Status Spill (Unk/Other Cause)
204	MAN HOLE #640	RIDER AVE / E 143RD ST	1966 feet to the SSE	Closed Status Spill (Misc. Spill Cause)
34	POWER CHEMICAL CO INC	387 RIDER AVE	2123 feet to the SSE	Hazardous Waste Treat, Storage, Disposal
145	VAULT #VS2380	CANAL PL/E 141ST	2177 feet to the SSE	Closed Status Spill (Unk/Other Cause)
24	MORRIS COURT APARTMENTS	247 EAST 142ND STREET	2214 feet to the SSE	Brownfields Site
218	SCHOOL #X183	339 MORRIS AV	2534 feet to the SSE	Closed Status Spill (Misc. Spill Cause)
240	HOSTOS COMMUNITY COLLEGE	120 E 149 ST	660 feet to the S	Petroleum Bulk Storage Site
112	475 WALTON AVENUE	475 WALTON AVENUE	982 feet to the S	Closed Status Spill (Unk/Other Cause)
46	HOSTOS COMMUNITY COLLEGE	WALTON AVE EAST 144TH ST.	1376 feet to the S	Closed Status Tank Failure
123	MANHOLE # 9489	WALTON AVE EAST 144TH ST.	1376 feet to the S	Closed Status Spill (Unk/Other Cause)
60	GERARDO WOODWORKING	168 EAST 144TH STREET	1578 feet to the S	Closed Status Tank Test Failure
127	U HAUL #803−68	368 WALTON AVE	1660 feet to the S	Closed Status Spill (Unk/Other Cause)
42	FORMER HESS STATION 32GRA	370 GRAND CONCOURSE	1751 feet to the S	Active Haz Spill (Unknown/Other Cause)
43	BP AMOCO STATION #17782	350 GRAND CONCOURSE	1751 feet to the S	Active Haz Spill (Unknown/Other Cause)
21	335 GRAND CONCOURSE	335 GRAND CONCOURSE	1952 feet to the S	Brownfields Site
143	141ST ST& GRAND CONCOURSE	141ST ST &GRAND CONCOURSE	2048 feet to the S	Closed Status Spill (Unk/Other Cause)
44	FORMER CITYGAS/LAGE CAR WASH	315 GRAND CONCOURSE	2132 feet to the S	Active Haz Spill (Unknown/Other Cause)
144	ABANDONED GAS STATION	315 GRAND CONCOURSE	2132 feet to the S	Closed Status Spill (Unk/Other Cause)
146	SPILL NUMBER 9702764	310 GRAND CONCOURSE	2190 feet to the S	Closed Status Spill (Unk/Other Cause)
205	318 GRAND CONCOURSE/BX	318 GRAND CONCOURSE	2190 feet to the S	Closed Status Spill (Misc. Spill Cause)
32	ECOLOGY RECYCLING PLANT		2424 feet to the S	Solid Waste Facility
33	ECOLOGY RECYCLING PLANT	321 CANAL PLACE	2424 feet to the S	Solid Waste Facility
169	APARTMENT BUILDING	250 WALTON AVE	2482 feet to the S	Closed Status Spill (Unk/Other Cause)
170	SERVICE BOX #4855	261 GR CONCOURSE/138TH ST	2482 feet to the S	Closed Status Spill (Unk/Other Cause)
175	SPILL NUMBER 0200438	140TH ST & CANAL PL	2532 feet to the S	Closed Status Spill (Unk/Other Cause)
3	2568 PARK	2568 PARK AVENUE	2772 feet to the S	NYSDEC Inactive Haz Waste Disposal Site
5	RIDER AVENUE GAS STATION	250 EAST 138TH STREET	3320 feet to the S	NYSDEC Inactive Haz Waste Disposal Site
36	PHASE 2	110 EAST 149TH STREET	792 feet to the SSW	Active Haz Spill (Unknown/Other Cause)

10	110 EAST 149TH STREET	110 EAST 149TH STREET	814 feet to the SSW	Brownfields Site
58	CLOSED−LACKOF RECENT INFO	471 WALTON AVE	1001 feet to the SSW	Closed Status Tank Test Failure
114	UNDER CONSTRUCTION	500 EXTERIOR ST	1010 feet to the SSW	Closed Status Spill (Unk/Other Cause)
11	477 GERARD AVENUE	477 GERARD AVENUE	1021 feet to the SSW	Brownfields Site
37	COMMERCIAL PROPRTY	445 GERARD AVE	1161 feet to the SSW	Active Haz Spill (Unknown/Other Cause)
13	GERARD AVENUE AND EAST 146TH STREET SITE	417 AND 445 GERARD AVENUE, 440 MAJ WM DEEGAN BLVD	1184 feet to the SSW	Brownfields Site
14	GERARD AVENUE AND EAST 146TH STREET SITE	417 AND 445 GERARD AVENUE, 440 MAJ WM DEEGAN BLVD	1205 feet to the SSW	Brownfields Site
39	SOIL	414 GERARD AVE	1256 feet to the SSW	Active Haz Spill (Unknown/Other Cause)
15	FORMER ROCKET JEWELRY BOX SITE	414 GERARD AVENUE	1270 feet to the SSW	Brownfields Site
16	GERARD AVENUE AND EAST 146TH STREET SITE	417 AND 445 GERARD AVENUE, 440 MAJ WM DEEGAN BLVD	1273 feet to the SSW	Brownfields Site
138	SERVICE BOX	325 EXTERIOR ST	1970 feet to the SSW	Closed Status Spill (Unk/Other Cause)
139	VERIZON BUILDING	325 EXTERIOR STREET	1970 feet to the SSW	Closed Status Spill (Unk/Other Cause)
31	CON−EDISON @ SERVICE CENTER	281 EXTERIOR STREET	2170 feet to the SSW	Solid Waste Facility
84	GASETERIA	115 EAST 138TH STREET	2508 feet to the SSW	Closed Status Tank Test Failure
171	GASETERIA	115 EAST 138TH STREET	2508 feet to the SSW	Closed Status Spill (Unk/Other Cause)
179	STAINED SOIL FOUND IN EXCAVATION	EAST 138 STREET & EXTERIOR STREET	2595 feet to the SSW	Closed Status Spill (Unk/Other Cause)
220	MAJOR DEEGAN & 138TH ST/B	MAJOR DEEGAN/138TH ST.	2608 feet to the SSW	Closed Status Spill (Misc. Spill Cause)
7	VISTA 1	2401 THIRD AVENUE	4387 feet to the SSW	NYSDEC Inactive Haz Waste Disposal Site
110	TRANSFORMER MANHOLE 644	EAST 149TH ST	702 feet to the SW	Closed Status Spill (Unk/Other Cause)
117	EQUINOX X 149 ST OF DEGAN	475 EXTERIOR STREET	1064 feet to the SW	Closed Status Spill (Unk/Other Cause)
26	BRONX COUNTY RECYCLING	475 EXTERIOR STREET	1107 feet to the SW	Solid Waste Facility
27	EQUINOX ASSOCIATES, INC. (UNIVERSAL DEMO	475 EXTERIOR STREET	1107 feet to the SW	Solid Waste Facility
28	NEW YORK RECYCLING LLC	475 EXTERIOR STREET	1107 feet to the SW	Solid Waste Facility
147	VAULT 3328	2 WEST 142ND STREET	2219 feet to the SW	Closed Status Spill (Unk/Other Cause)
25	2350 FIFTH AVENUE	2350 FIFTH AVENUE	2231 feet to the SW	Brownfields Site
2	2350 FIFTH AVE., NEW YORK (AKA, PS 141)	2340 & 2350 FIFTH AVENUE	2235 feet to the SW	NYSDEC Inactive Haz Waste Disposal Site
151	VAULT 3804	5TH AV/W141ST ST	2304 feet to the SW	Closed Status Spill (Unk/Other Cause)
88	RESIDENTIAL	2300 5TH AVE	2638 feet to the SW	Closed Status Tank Test Failure
180	15 WEST 139 STREET	15 W 139TH ST	2638 feet to the SW	Closed Status Spill (Unk/Other Cause)
111	NORTHBOUD SERVICE RD	EXIT 4 MAJOR DEAGAN	762 feet to the WSW	Closed Status Spill (Unk/Other Cause)
120	HARLHEM RIVER	145TH STREET BRIDGE	1197 feet to the WSW	Closed Status Spill (Unk/Other Cause)
125	IN THE RIVER	145TH STREET BRIDGE	1586 feet to the WSW	Closed Status Spill (Unk/Other Cause)
126	HERLEM RIVER	145TH STREET BRIDGE	1586 feet to the WSW	Closed Status Spill (Unk/Other Cause)
152	143RD ST ASSOCIATES	44−58 WEST 143RD ST	2321 feet to the WSW	Closed Status Spill (Unk/Other Cause)
118	PIER # 4 BRONX TERMINAL M	EAST 150TH	1091 feet to the W	Closed Status Spill (Unk/Other Cause)
141	146TH &147TH ST/LENOX AVE	146TH &147TH ST/LENOX AVE	2008 feet to the W	Closed Status Spill (Unk/Other Cause)
148	MTA	711 LENOX AVE	2265 feet to the W	Closed Status Spill (Unk/Other Cause)
154	GETTY#58409	119 W. 145TH ST	2372 feet to the W	Closed Status Spill (Unk/Other Cause)
206	GETTY S/S #58409 − GETTY PROPERTIES	119 W. 145TH ST	2372 feet to the W	Closed Status Spill (Misc. Spill Cause)
85	120−128 WEST 145TH STREET	120−128 WEST 145TH STREET	2583 feet to the W	Closed Status Tank Test Failure
86	120−128 W.145TH ST	120−128 W.145TH ST	2583 feet to the W	Closed Status Tank Test Failure
176	HESS/MERIT GAS STA.	120 WEST 145TH STREET	2583 feet to the W	Closed Status Spill (Unk/Other Cause)
177	FORMER MERIT/FORMER HESS STATION	122 WEST 145TH ST	2583 feet to the W	Closed Status Spill (Unk/Other Cause)
49	101−125 WEST 147TH ST.	101−125 WEST 147TH ST.	2380 feet to the WNW	Closed Status Tank Failure
155	SPILL NUMBER 9900030	2541 7TH AVE	2380 feet to the WNW	Closed Status Spill (Unk/Other Cause)
156	SPILL NUMBER 0212767	101/125 W.147TH ST	2380 feet to the WNW	Closed Status Spill (Unk/Other Cause)
50	101−165 W 146TH ST/BX	1010165 WEST 146TH STREET	2402 feet to the WNW	Closed Status Tank Failure
68	146TH ST & LENOX AVE	721 LENOX AVE	2402 feet to the WNW	Closed Status Tank Test Failure
69	MOTHER CLARA HALE (146TH ST) DEPOT −NYCT	721 LENOX AVE	2402 feet to the WNW	Closed Status Tank Test Failure

70	MOTHER CLARA HALE (146TH ST) DEPOT −NYCT	721 LENOX AVE	2402 feet to the WNW	Closed Status Tank Test Failure
71	CONTAINMENT AREA	721 LENOX AVE	2402 feet to the WNW	Closed Status Tank Test Failure
72	MOTHER CLARA HALE DEPOT	721 LENOX AVE	2402 feet to the WNW	Closed Status Tank Test Failure
73	MOTHER CLARA HALE DEPOT	721 LENOX AVE	2402 feet to the WNW	Closed Status Tank Test Failure
74	NYC TRANSIT	146TH ST & LENOX	2402 feet to the WNW	Closed Status Tank Test Failure
157	HALE (146TH STREET) DEPOT−NYCT	721 LENNOX AVE	2402 feet to the WNW	Closed Status Spill (Unk/Other Cause)
158	146TH ST BUS DEPOT	721 LENOX AVE	2402 feet to the WNW	Closed Status Spill (Unk/Other Cause)
159	146TH STREET DEPOT	146TH STREET DEPOT	2402 feet to the WNW	Closed Status Spill (Unk/Other Cause)
160	146 WEST 147TH ST/MANH	146 WEST 147TH STREET	2402 feet to the WNW	Closed Status Spill (Unk/Other Cause)
161	MOTHER CLARA HILL BUS	721 LENOX AVE	2402 feet to the WNW	Closed Status Spill (Unk/Other Cause)
162	MOTHER CLARA HILL DEPOT −NYCT	721 LENOX AVE	2402 feet to the WNW	Closed Status Spill (Unk/Other Cause)
163	CLARA HALE BUS DEPOT	735 LENOX AVE	2402 feet to the WNW	Closed Status Spill (Unk/Other Cause)
164	MOTHER CLARA HALE DEPOT	721 LENOX AVE	2402 feet to the WNW	Closed Status Spill (Unk/Other Cause)
165	CLARA HALE BUS DEPOT	721 LENOX AVE	2402 feet to the WNW	Closed Status Spill (Unk/Other Cause)
166	HALE (146TH STREET) DEPOT	LENOX AVE/146TH ST	2402 feet to the WNW	Closed Status Spill (Unk/Other Cause)
207	CLARE HALE DEPOT	721 LENOX AVE	2402 feet to the WNW	Closed Status Spill (Misc. Spill Cause)
208	−NYCT / 146 ST	721 LENOX AVE	2402 feet to the WNW	Closed Status Spill (Misc. Spill Cause)
209	146TH ST DEPOT	721 LENOX AVE	2402 feet to the WNW	Closed Status Spill (Misc. Spill Cause)
210	MOTHER CLARA HALE DEPOT	721 LENOX AVE	2402 feet to the WNW	Closed Status Spill (Misc. Spill Cause)
211	MOTHER CLARA HILL BUS	721 LENOX AVE	2402 feet to the WNW	Closed Status Spill (Misc. Spill Cause)
212	MOTHER CLARA HALE BUS DEP	721 LENOX AVE	2402 feet to the WNW	Closed Status Spill (Misc. Spill Cause)
45	FREDERICK DOUGLASS ACADEMY	2581 ADAM CLAYTON POWELL JR BLVD	2412 feet to the WNW	Active Haz Spill (Unknown/Other Cause)
4	FILM STORAGE WAREHOUSE SITE	203−209 WEST 146TH STREET	3122 feet to the WNW	NYSDEC Inactive Haz Waste Disposal Site
9	GATEWAY CENTER AT BRONX TERMINAL MARKET, EASTERN	EXTERIOR STREET	811 feet to the NW	Brownfields Site
18	GATEWAY CENTER AT BRONX TERMINAL MARKET, WESTERN	EXTERIOR STREET	1460 feet to the NW	Brownfields Site
119	BROWNFIELD PRO #C203015	49 BRONX TERMINAL MARKET	1151 feet to the NNW	Closed Status Spill (Unk/Other Cause)
29		BRONX TERMINAL MARKET	1165 feet to the NNW	Solid Waste Facility
140	BEHIND GAL MANUFACTURERS	50 E.153RD ST	1999 feet to the NNW	Closed Status Spill (Unk/Other Cause)

Identified Toxic Sites by Category

580−610 Gerard Avenue
Bronx, NY 10451

* Compass directions can vary substantially for sites located very close to the subject property address.

NYSDEC Inactive Haz. Waste Disposal Site Registry −− Total Sites − 8 — **Database searched at 1 MILE − ASTM required search distance: 1 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
1	203042	MOTT HAVEN MGP PLUME TRACKDOWN	CONCOURSE VILLAGE WEST AT EAST 156TH STREET	1680 feet to the NE
2	231004	2350 FIFTH AVE., NEW YORK (AKA, PS 141)	2340 & 2350 FIFTH AVENUE	2235 feet to the SW
3	203050	2568 PARK	2568 PARK AVENUE	2772 feet to the S
4	231009	FILM STORAGE WAREHOUSE SITE	203−209 WEST 146TH STREET	3122 feet to the WNW
5	203051	RIDER AVENUE GAS STATION	250 EAST 138TH STREET	3320 feet to the S
6	203009	FORMER MELROSE AVENUE DRY CLEANER	753 MELROSE AVENUE	3531 feet to the E
7	203052	VISTA 1	2401 THIRD AVENUE	4387 feet to the SSW
8	203043	BRONXCHESTER URA SITE 1A	BROOK AVENUE AT EAST 156TH STREET	4465 feet to the E

Brownfields Sites −− Total Sites − 14 — **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
9	C203015	GATEWAY CENTER AT BRONX TERMINAL MARKET, EASTERN	EXTERIOR STREET	811 feet to the NW
10	15CVCP114X	110 EAST 149TH STREET	110 EAST 149TH STREET	814 feet to the SSW
11	C203071	477 GERARD AVENUE	477 GERARD AVENUE	1021 feet to the SSW
12	C203092	CONCOURSE VILLAGE WEST APARTMENTS − SOUTH	741 CONCOURSE VILLAGE AND 702 GRAND CONCOURSE	1154 feet to the ENE
13	C203111	GERARD AVENUE AND EAST 146TH STREET SITE	417 AND 445 GERARD AVENUE, 440 MAJ WM DEEGAN BLVD	1184 feet to the SSW
14	C203111	GERARD AVENUE AND EAST 146TH STREET SITE	417 AND 445 GERARD AVENUE, 440 MAJ WM DEEGAN BLVD	1205 feet to the SSW
15	C203106	FORMER ROCKET JEWELRY BOX SITE	414 GERARD AVENUE	1270 feet to the SSW
16	C203111	GERARD AVENUE AND EAST 146TH STREET SITE	417 AND 445 GERARD AVENUE, 440 MAJ WM DEEGAN BLVD	1273 feet to the SSW
17	C203092	CONCOURSE VILLAGE WEST APARTMENTS − SOUTH	741 CONCOURSE VILLAGE AND 702 GRAND CONCOURSE	1290 feet to the ENE
18	C203028	GATEWAY CENTER AT BRONX TERMINAL MARKET, WESTERN	EXTERIOR STREET	1460 feet to the NW
19	C203030	FORMER METRO NORTH PROPERTY	730 CONCOURSE VILLAGE WEST	1514 feet to the ENE
20	C203091	CONCOURSE VILLAGE WEST APARTMENTS − NORTH	180 EAST 156TH STREET	1534 feet to the NE
21	15CVCP020X	335 GRAND CONCOURSE	335 GRAND CONCOURSE	1952 feet to the S
22	C203066	810 RIVER	810 RIVER AVENUE	2148 feet to the NNE
23	14CVCP171X	810 RIVER AVENUE	810 RIVER AVENUE	2148 feet to the NNE
24	12CVCP059X	MORRIS COURT APARTMENTS	247 EAST 142ND STREET	2214 feet to the SSE
25	V00256	2350 FIFTH AVENUE	2350 FIFTH AVENUE	2231 feet to the SW

Solid Waste Facilities −− Total Sites − 8 — **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
26	NY00000000438	BRONX COUNTY RECYCLING	475 EXTERIOR STREET	1107 feet to the SW
27	NY00000000464	EQUINOX ASSOCIATES, INC. (UNIVERSAL DEMO	475 EXTERIOR STREET	1107 feet to the SW
28	NY40000117825	NEW YORK RECYCLING LLC	475 EXTERIOR STREET	1107 feet to the SW
29	NY247		BRONX TERMINAL MARKET	1165 feet to the NNW
30	NY241		FRANZ SIEGEL PARK	1370 feet to the NE
31	NY00000000465	CON−EDISON @ SERVICE CENTER	281 EXTERIOR STREET	2170 feet to the SSW
32	03T27	ECOLOGY RECYCLING PLANT		2424 feet to the S
33	NY00000000254	ECOLOGY RECYCLING PLANT	321 CANAL PLACE	2424 feet to the S

Hazardous Waste Treatment, Storage, Disposal Facilities −− Total Sites − 1 — **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
34	NYD001549633	POWER CHEMICAL CO INC	387 RIDER AVE	2123 feet to the SSE

Active Tank Test Failures −− Total Sites − 1 — **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
35	1502628	UNDERGROUND TANK	234 EAST 149TH ST	1701 feet to the SE

Active Haz Spills (Unknown Causes & Other Causes) −− Total Sites − 10 — **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
36	1407530	PHASE 2	110 EAST 149TH STREET	792 feet to the SSW
37	1705596	COMMERCIAL PROPRTY	445 GERARD AVE	1161 feet to the SSW
38	1802478	RESIDENTIAL	702 GRAND CONCORDE	1165 feet to the ENE
39	1705442	SOIL	414 GERARD AVE	1256 feet to the SSW
40	1801890	EXCAVATION SITE	180 EAST 156TH ST	1546 feet to the NE
41	0551708	PARKING GARAGE	173 E 156TH STREET	1736 feet to the NE
42	9814075	FORMER HESS STATION 32GRA	370 GRAND CONCOURSE	1751 feet to the S
43	0111974	BP AMOCO STATION #17782	350 GRAND CONCOURSE	1751 feet to the S
44	9909720	FORMER CITYGAS/LAGE CAR WASH	315 GRAND CONCOURSE	2132 feet to the S
45	1608021	FREDERICK DOUGLASS ACADEMY	2581 ADAM CLAYTON POWELL JR BLVD	2412 feet to the WNW

Closed Status Tank Failures −− Total Sites − 7 — **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
46	0409591	HOSTOS COMMUNITY COLLEGE	WALTON AVE EAST 144TH ST.	1376 feet to the S
47	9011867	225 EAST 149TH ST/BX	225 EAST 149TH STREET	1525 feet to the ESE
48	0505007	EXCAVATION	675 MORRIS AVE	1745 feet to the E
49	9308461	101−125 WEST 147TH ST.	101−125 WEST 147TH ST.	2380 feet to the WNW
50	8902952	101−165 W 146TH ST/BX	1010165 WEST 146TH STREET	2402 feet to the WNW
51	9709702	775 CONCORSE VILLAGE EAST	775 CONCORSE VILLAGE EAST	2509 feet to the ENE
52	9414368	PATTERSON HOUSES	301 EAST 143RD STREET	2594 feet to the SE

Closed Status Tank Test Failures −− Total Sites − 36 — **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
53	9007668	USPS VEHICLE MAINT. FAC.	580 GERARD AVENUE	0 feet
54	1204620	NYCDOS TANK TEST FAILURE	545 GERARD AVE / 125 EAST 149TH STREET	367 feet to the SSW
55	1203859	NYC DEPT OF SANITATION TTF	545 GERARD AVE	367 feet to the SSW
56	9909670	SPARTAN PETROLEUM/ MOBIL STATION	99 EAST 149TH ST	475 feet to the SW
57	8905353	MOBIL	99 EAST 149TH ST	475 feet to the SW
58	8800476	CLOSED−LACKOF RECENT INFO	471 WALTON AVE	1001 feet to the SSW
59	9002366	500 GRAND CONCOURSE	500 GRAND CONCOURSE	1021 feet to the SSE
60	1509044	GERARDO WOODWORKING	168 EAST 144TH STREET	1578 feet to the S
61	0801696	COMMERCAIL BUILD	200 EAST 146TH STREET	1586 feet to the SSE
62	0800658	APARTMENT	635 MORRIS AVE	1603 feet to the E
63	1206812	LINCOLN HOSPITAL TTF	234 EAST 149TH STREET	1701 feet to the SE
64	0313236	LINCOLN MEDICAL CENTER	234 EAST 149TH ST	1701 feet to the SE
65	1215394	PARKING GARAGE − TTF	751 CONCOURSE VILLAGE WEST	1736 feet to the NE
66	9903367	PREMIER METALS	381 CANAL PLACE	1872 feet to the SSE
67	8709462	381 CANAL PLACE	381 CANAL PLACE	1872 feet to the SSE
68	9106264	146TH ST & LENOX AVE	721 LENOX AVE	2402 feet to the WNW
69	8904241	MOTHER CLARA HALE (146TH ST) DEPOT −NYCT	721 LENOX AVE	2402 feet to the WNW
70	8902374	MOTHER CLARA HALE (146TH ST) DEPOT −NYCT	721 LENOX AVE	2402 feet to the WNW
71	1602684	CONTAINMENT AREA	721 LENOX AVE	2402 feet to the WNW
72	1511105	MOTHER CLARA HALE DEPOT	721 LENOX AVE	2402 feet to the WNW
73	0405011	MOTHER CLARA HALE DEPOT	721 LENOX AVE	2402 feet to the WNW
74	0009127	NYC TRANSIT	146TH ST & LENOX	2402 feet to the WNW
75	9813424	YANKEE STADIUM	800 RUPPERT PLACE	2414 feet to the N

76	0511070	YANKEE STADIUM	161 STREET/RIVER AVE	2414 feet to the N
77	9906432	MELROSE−NYCHA	304 E 156TH ST	2434 feet to the E
78	9815516	MELROSE HOUSES	304 E 156TH ST	2434 feet to the E
79	9712621	MELROSE HOUSES	304 E 156TH ST	2434 feet to the E
80	9311327	MELROSE HOUSES −NYCHA	304 E 156TH ST	2434 feet to the E
81	9300349	MELROSE HOUSES	304 E 156TH ST	2434 feet to the E
82	9006284	MELROSE HOUSES −NYCHA	304 E 156TH ST	2434 feet to the E
83	0101258	BROWNS CO COURT HOUSE	851 GRAND CONCOURSE	2485 feet to the NNE
84	0207682	GASETERIA	115 EAST 138TH STREET	2508 feet to the SSW
85	9210186	120−128 WEST 145TH STREET	120−128 WEST 145TH STREET	2583 feet to the W
86	8606425	120−128 W.145TH ST	120−128 W.145TH ST	2583 feet to the W
87	9504190	PATTERSON HOUSES −NYCHA	301 EAST 143RD STREET	2594 feet to the SE
88	1408973	RESIDENTIAL	2300 5TH AVE	2638 feet to the SW

Closed Status Spills (Unknown Causes & Other Causes) −− Total Sites − 92 Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
89	9909034	TM625	GERARD AV / E 150TH ST	213 feet to the SW
90	1009116	221625; GERARD AVENUE	GERARD AVENUE	213 feet to the SW
91	0890266	208501; WALTON AVE & E150 ST	WALTON AVE & E150 ST	274 feet to the SSE
92	0814560	214322; WALTON AVE & E150 ST	WALTON AVE & E150 ST	274 feet to the SSE
93	9910856	MANHATTAN WEST 09 DOS −DDC	125 EAST 149TH STREET	367 feet to the SSW
94	0406130	SPILL NUMBER 0406130	CEDAR LANE/EAST 151 ST	399 feet to the E
95	8902416	MOBIL	611 GRAND CONCOURSE	457 feet to the E
96	0912104	MOBIL GAS 12971(17−KTA)	611 GRAND CONCOURSE	457 feet to the E
97	9513870	MANHATTAN WEST 09 DOS −DDC	99 EAST 149TH ST	475 feet to the SW
98	9208906	MOBIL	99 EAST 149TH ST	475 feet to the SW
99	8911938	MOBIL	99 EAST 149TH STREET	475 feet to the SW
100	0311549	AMOCO SERVICE STATION	99 EAST 149TH STREET	475 feet to the SW
101	0307681	AMOCO	99 EAST 149TH ST	475 feet to the SW
102	0601001	COMMERCIAL PROPERTY	557 GRAND CONCOURSE	568 feet to the SSE
103	0503997	MANHOLE #4506	149TH & GERARD AVE	571 feet to the SSW
104	9912518	MANHOLE 3889	EXTERIOR ST/150TH ST	638 feet to the W
105	0890401	208591; EXTERIOR ST	EXTERIOR ST	638 feet to the W
106	0890003	204710; EXTERIOR ST	EXTERIOR ST	638 feet to the W
107	0605936	NEXT TO YANKEE STADIUM	150TH /EXTERIOR STREET	638 feet to the W
108	0204235	SPILL NUMBER 0204235	MAJOR DEEGAN/150TH ST	638 feet to the W
109	0504695	BRONX HOUSE OF DETENTION	653 RIVER AVE.	654 feet to the NW
110	0313571	TRANSFORMER MANHOLE 644	EAST 149TH ST	702 feet to the SW
111	0610701	NORTHBOUD SERVICE RD	EXIT 4 MAJOR DEAGAN	762 feet to the WSW
112	9512362	475 WALTON AVENUE	475 WALTON AVENUE	982 feet to the S
113	0012262	MANHOLE 4526	EAST 153RD STREET+GERARD	1007 feet to the NNE
114	1400009	UNDER CONSTRUCTION	500 EXTERIOR ST	1010 feet to the SSW
115	0800543	HOSTOS COMMUNITY COLLEGE	500 GRAND CONCOURSE	1021 feet to the SSE
116	0613549	CANDLEWOOD AUTO MALL	676 GRAND CONCOURSE	1023 feet to the ENE
117	9611101	EQUINOX X 149 ST OF DEGAN	475 EXTERIOR STREET	1064 feet to the SW
118	0609955	PIER # 4 BRONX TERMINAL M	EAST 150TH	1091 feet to the W
119	0702081	BROWNFIELD PRO #C203015	49 BRONX TERMINAL MARKET	1151 feet to the NNW
120	0306776	HARLHEM RIVER	145TH STREET BRIDGE	1197 feet to the WSW
121	1412201	RESIDENTS	730 GRAND CONCOURSE	1249 feet to the ENE
122	0910843	PRIVATE DWELLING	710 GERARD AVE	1343 feet to the NNE
123	0312991	MANHOLE # 9489	WALTON AVE EAST 144TH ST.	1376 feet to the S
124	0508092	VAULT # 3200	231 EAST 149 ST NEAR PARK AVE	1525 feet to the ESE
125	0701308	IN THE RIVER	145TH STREET BRIDGE	1586 feet to the WSW

126	0609701	HERLEM RIVER	145TH STREET BRIDGE	1586 feet to the WSW
127	0012172	U HAUL #803−68	368 WALTON AVE	1660 feet to the S
128	0912687	LINCOLN HOSPITAL AMBULANCE BAY	234 EAST 149	1701 feet to the SE
129	0204573	LINCOLN HOSPITAL	234 E 149TH ST	1701 feet to the SE
130	9304620	215 E 144TH STREET	215 E 144TH STREET	1715 feet to the SSE
131	0606610	PARKING GARGAGE	751 CONCOURSE VILLAGE WES	1736 feet to the NE
132	9803142	PS 156	750 GRAND CONCORSE VIL W.	1865 feet to the ENE
133	0306424	381 CANAL PLACE	381 CANAL PLACE	1872 feet to the SSE
134	0814207	211656; MORRIS AVE AND E 153 ST	MORRIS AVE AND E 153 ST	1914 feet to the E
135	0504523	YANKEE STADIUM PARKING LOT	RIVER AVE/ EAST 157TH ST	1936 feet to the N
136	0306819	SPILL NUMBER 0306819	E 157TH ST/RIVER AVE	1936 feet to the N
137	0306717	VAULT 5082 E 157TH ST &	E 157TH ST & RIVER AV	1936 feet to the N
138	1711329	SERVICE BOX	325 EXTERIOR ST	1970 feet to the SSW
139	0512042	VERIZON BUILDING	325 EXTERIOR STREET	1970 feet to the SSW
140	0307022	BEHIND GAL MANUFACTURERS	50 E.153RD ST	1999 feet to the NNW
141	9012864	146TH &147TH ST/LENOX AVE	146TH &147TH ST/LENOX AVE	2008 feet to the W
142	0550556	TECHNIC AUTO SERVICES CORP	699 MORRIS AVE.	2013 feet to the E
143	8807934	141ST ST& GRAND CONCOURSE	141ST ST &GRAND CONCOURSE	2048 feet to the S
144	0109527	ABANDONED GAS STATION	315 GRAND CONCOURSE	2132 feet to the S
145	0212011	VAULT #VS2380	CANAL PL/E 141ST	2177 feet to the SSE
146	9702764	SPILL NUMBER 9702764	310 GRAND CONCOURSE	2190 feet to the S
147	1207731	VAULT 3328	2 WEST 142ND STREET	2219 feet to the SW
148	1002713	MTA	711 LENOX AVE	2265 feet to the W
149	0710941	MOTTHAVEN	790 CONCOURSE VILLAGE WES	2269 feet to the NE
150	9904014	MANHOLE #7087	IFO 301 E 149TH SR	2287 feet to the ESE
151	0010341	VAULT 3804	5TH AV/W141ST ST	2304 feet to the SW
152	9706699	143RD ST ASSOCIATES	44−58 WEST 143RD ST	2321 feet to the WSW
153	0310705	TRANSFORMER VAULT #2190	CONCOURSE VILLAGE/EAST158	2349 feet to the NE
154	0701951	GETTY#58409	119 W. 145TH ST	2372 feet to the W
155	9900030	SPILL NUMBER 9900030	2541 7TH AVE	2380 feet to the WNW
156	0212767	SPILL NUMBER 0212767	101/125 W.147TH ST	2380 feet to the WNW
157	9813017	HALE (146TH STREET) DEPOT−NYCT	721 LENNOX AVE	2402 feet to the WNW
158	9606076	146TH ST BUS DEPOT	721 LENOX AVE	2402 feet to the WNW
159	9212791	146TH STREET DEPOT	146TH STREET DEPOT	2402 feet to the WNW
160	8905388	146 WEST 147TH ST/MANH	146 WEST 147TH STREET	2402 feet to the WNW
161	0610604	MOTHER CLARA HILL BUS	721 LENOX AVE	2402 feet to the WNW
162	0404173	MOTHER CLARA HILL DEPOT −NYCT	721 LENOX AVE	2402 feet to the WNW
163	0401286	CLARA HALE BUS DEPOT	735 LENOX AVE	2402 feet to the WNW
164	0400382	MOTHER CLARA HALE DEPOT	721 LENOX AVE	2402 feet to the WNW
165	0311426	CLARA HALE BUS DEPOT	721 LENOX AVE	2402 feet to the WNW
166	0102743	HALE (146TH STREET) DEPOT	LENOX AVE/146TH ST	2402 feet to the WNW
167	9004480	MELROSE −NYCHA	304 E 156TH ST	2434 feet to the E
168	0207044	MELROSE HOUSE −NYCHA	304 E 156TH ST	2434 feet to the E
169	9802251	APARTMENT BUILDING	250 WALTON AVE	2482 feet to the S
170	0308959	SERVICE BOX #4855	261 GR CONCOURSE/138TH ST	2482 feet to the S
171	9408104	GASETERIA	115 EAST 138TH STREET	2508 feet to the SSW
172	9709665	HIGHRISE BUILDING	775 CONCOURSE VILL EAST	2509 feet to the ENE
173	0305408	STORAGE UNIT	773 CONCOURSE VILLAGE E	2509 feet to the ENE
174	0914570	218947; RUPPERT PLACE	RUPPERT PLACE	2531 feet to the N
175	0200438	SPILL NUMBER 0200438	140TH ST & CANAL PL	2532 feet to the S
176	9212043	HESS/MERIT GAS STA.	120 WEST 145TH STREET	2583 feet to the W
177	1606459	FORMER MERIT/FORMER HESS STATION	122 WEST 145TH ST	2583 feet to the W
178	0506695	PATTERSON HOUSES −NYCHA	301 EAST 143RD STREET	2594 feet to the SE

179	0709365	STAINED SOIL FOUND IN EXCAVATION	EAST 138 STREET & EXTERIOR STREET	2595 feet to the SSW
180	0410113	15 WEST 139 STREET	15 W 139TH ST	2638 feet to the SW

Closed Status Spills (Miscellaneous Spill Causes) −− Total Sites − 40 **Database searched at 1/2 MILE − ASTM required search distance: 1/2 Mile**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
181	9213223	USPS VEHICLE MAINT. FAC.	580 GERARD AVENUE	0 feet
182	9909080	IN SEWER OR VAULT	GERARD AV & E150TH ST	213 feet to the SW
183	9908955	MANHOLE 4513	EAST 15TH ST − GERARD AVE	213 feet to the SW
184	0311499	MAN HOLE #4513	GERALD AVE AND 150ST.	213 feet to the SW
185	1205845	HARLEM FURNITURE	620 GERARD AVE	262 feet to the NNE
186	9310947	138 EAST 150TH STREET	138 EAST 150TH STREET	369 feet to the SSE
187	0805192	APART	175 EAST 151 STREET	404 feet to the ENE
188	9209173	611 GRAND CONCOURSE	611 GRAND CONCOURSE	457 feet to the E
189	8902680	611 GRAND CONCOURSE/MOBIL	611 GRAND CONCOURSE	457 feet to the E
190	1510416	MOBIL GAS STATION	611 GRAND CONCOURSE	457 feet to the E
191	1214560	GAS STATION	611 GRAND CONCOURSE	457 feet to the E
192	9708729	AMOCO	99 EAST 149TH ST	475 feet to the SW
193	0814269	212353; GERARD AVENUE AND EAST 151 STREET	GERARD AVENUE AND EAST 151 STREET	537 feet to the N
194	0814261	212325; GERARD AVENUE AND E151 STREET	GERARD AVENUE AND E151 STREET	537 feet to the N
195	0007591	GRAND CONCOURSE REALTY CO	557 GRAND CONCOURSE	568 feet to the SSE
196	0890157	207264; SWC GERARD AVE & E149 ST	SWC GERARD AVE & E149 ST	571 feet to the SSW
197	0406667	MANHOLE#4510	EAST 149 ST/GERARD AVE	571 feet to the SSW
198	9815541	MAJOR DEEGAN EXPRESS WAY	NEAR 150TH ST	638 feet to the W
199	9704401	NYC DEPT CORRECTIONS	653 RIVER AVE	654 feet to the NW
200	0103521	BRONX DETENTION CENTER	653 RIVER AVE	654 feet to the NW
201	9308715	149TH ST & GRAND CONCOURS	149TH ST & GRAND CONCOURS	764 feet to the SSE
202	9414927	730 GRAND CONCOURSE	730 GRAND CONCOURSE	1249 feet to the ENE
203	1103540	VAULT # 612	EAST 146 ST AND PARK AVE	1485 feet to the SSE
204	0302730	MAN HOLE #640	RIDER AVE / E 143RD ST	1966 feet to the SSE
205	8905553	318 GRAND CONCOURSE/BX	318 GRAND CONCOURSE	2190 feet to the S
206	9713385	GETTY S/S #58409 − GETTY PROPERTIES	119 W. 145TH ST	2372 feet to the W
207	9610294	CLARE HALE DEPOT	721 LENOX AVE	2402 feet to the WNW
208	9213322	−NYCT / 146 ST	721 LENOX AVE	2402 feet to the WNW
209	9110782	146TH ST DEPOT	721 LENOX AVE	2402 feet to the WNW
210	0703983	MOTHER CLARA HALE DEPOT	721 LENOX AVE	2402 feet to the WNW
211	0513028	MOTHER CLARA HILL BUS	721 LENOX AVE	2402 feet to the WNW
212	0008714	MOTHER CLARA HALE BUS DEP	721 LENOX AVE	2402 feet to the WNW
213	0313357	YANKEE STADIUM	153/157 STREET	2414 feet to the N
214	9011440	775 CONCOURSE VILLAGE E	775 CONCOURSE VILLAGE E	2509 feet to the ENE
215	9011294	775 CONCOURSE VILLAGE E	775 CONCOURSE VILLAGE E	2509 feet to the ENE
216	9011012	775 CONCORD VILLAGE E/BX	775 CONCORD VILLAGE EAST	2509 feet to the ENE
217	0612134	MULTI FAM DWG/COMM	775 CONCOURSE VILLAGE	2509 feet to the ENE
218	0411448	SCHOOL #X183	339 MORRIS AV	2534 feet to the SSE
219	9710056	PATTERSON HOUSES −NYCHA	301 EAST 143RD STREET	2594 feet to the SE
220	8706724	MAJOR DEEGAN & 138TH ST/B	MAJOR DEEGAN/138TH ST.	2608 feet to the SSW

Petroleum Bulk Storage Sites −− Total Sites − 20 **Database searched at 1/8 MILE − ASTM required search distance: Property & Adjacent**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
221	2−333212	VEHICLE MAINTENANCE FACILITY	580 GERARD AVENUE	0 feet
222	2−476021	580 GERARD AVENUE	580 GERARD AVENUE	0 feet
223	2−609485	AMERICAN SELF STORAGE	586 RIVER AVENUE / 595 GERARD AVENUE	229 feet to the NW
224	NY09332	ST LUKE‘S HOSPITAL	595 GERARD AVE	229 feet to the NW
225	2−070394	585 GERARD AVENUE CORP.	585 GERARD AVENUE	311 feet to the SW

226	2−455660	DSNY M DISTRICT 9 GARAGE	125 EAST 149TH STREET	362 feet to the SSW
227	2−110981	151ST AND WALTON LLC	175 EAST 151ST STREET	418 feet to the ENE
228	2−156299	GLOBAL MONTELLO GROUP #1743	611 GRAND CONCOURSE	463 feet to the E
229	2−156590	MOBIL S/S 17−KRQ BRONX TERMINA	99 EAST 149TH STREET	465 feet to the SW
230	2−600626	BP#13990	99−113 149TH STREET	465 feet to the SW
231	2−604541	ENGINE COMPANY 41	150 E. 150TH STREET	477 feet to the SSE
232	2−610934	151 EAST 151ST STREET	151 EAST 151ST STREET	480 feet to the NNE
233	NY02816	CONCOURSE METRO TIRE	579 GRAND CONCOURSE	506 feet to the SE
234	2−207608	557 GRAND CONCOURSE	557 GRAND CONCOURSE	571 feet to the SSE
235	2−482803	JOSE PEREZ	557 GRAND CONCOURSE	571 feet to the SSE
236	2−610368	BRONX TERMINAL MARKET WATERFRONT PARK	EXTERIOR STREET & EAST 150TH STREET	638 feet to the W
237	2−187801	BRONX HOUSE OF DETENTION FOR MEN	653 RIVER AVENUE	644 feet to the NNW
238	NY02313	C KENNETH IMPORTS CO.	586 CROMWELL AVE	644 feet to the NNW
239	NY04829	HOSANNA PAPER CO	586 CROMWELL AVE	644 feet to the NNW
240	NY04830	HOSTOS COMMUNITY COLLEGE	120 E 149 ST	660 feet to the S

Hazardous Waste Generators, Transporters −− Total Sites − 41 **Database searched at 1/8 MILE − ASTM required search distance: Property & Adjacent**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
241	NY5180010451	US POSTAL SERVICE − VMF	580 GERARD AVE	0 feet
242	NYD982727885	UNITED STATES POST OFFICE	580 GERARD AVE	0 feet
243	NYR000100255	AUTORAMA ENTERPRISES OF BRONX	610 GERARD AVE	0 feet
244	NYP004813883	CON EDISON	602 WALTON AVE	196 feet to the ESE*
245	NYN30003A415	DGI TRANSPORT CORP	586 RIVER AVE	201 feet to the WNW
246	NYP004998682	CON EDISON − MANHOLE 32269	595 GERARD AVE	201 feet to the WNW
247	NYP004045266	CONSOLIDATED EDISON	MH4513−E 150TH ST & GERARD AVE	213 feet to the SW
248	NYP004045357	CONSOLIDATED EDISON	TMH625−150TH ST & GERARD AVE	213 feet to the SW
249	NYP004212635	CONSOLIDATED EDISON − TM 625	150 & GERRARD	213 feet to the SW
250	NYP004648499	CON EDISON	GERARD AVE & E 150 ST	213 feet to the SW
251	NYP004779658	CON EDISON	624 WALTON AVE	280 feet to the ENE
252	NYP004206936	CON EDISON	E 151ST ST & WALTON AVE	337 feet to the NE
253	NYP004206937	CONSOLIDATED EDISON	MH9515 − E 151ST ST / WALTON AVE	337 feet to the NE
254	NYP004283008	CON EDISON TRANSFORMER MANHOLE: 643	E 151ST ST & WALTON AVE	337 feet to the NE
255	NYP004289401	CON EDISON MANHOLE: 9515	E 151ST ST & WALTON AVE	337 feet to the NE
256	NYP004289674	CON EDISON	E. 151ST. STREET & WALTON	337 feet to the NE
257	NYP004359618	CON EDISON	WALTON AVE & E. 251 ST	337 feet to the NE
258	NYP004784823	CON EDISON	''' WALTON AVE & E 151ST ST'''	337 feet to the NE
259	NYP004883043	CON EDISON	591 RIVER AVE	378 feet to the W
260	NYD981487069	NYCDOS	125 E 149TH ST	396 feet to the SSW
261	NYP000858126	MANHATTAN WEST 9	125 E 149TH ST	396 feet to the SSW
262	NYP004359618	CON EDISON MANHOLE: 9515	630 WALTON AVE	396 feet to the ENE
263	NYD986955656	MOBIL OIL CORP	611 BRAND CONCOURSE	460 feet to the E
264	NYD986987899	BP WEST COAST PRODUCTS #13990	99 E 149TH ST	496 feet to the SW
265	NYR000165407	PROW BUILDING	560 EXTERIOR ST	532 feet to the WSW
266	NYP004261830	CON EDISON	GERARD AVE & E 151 ST	537 feet to the N
267	NYR000100131	NYC DOT	WALTON AVE	548 feet to the NE
268	NYP004225843	CONSOLIDATED EDISON	EAST 150ST GRAND CONCOURSE	557 feet to the SE
269	NYR000100149	NYCDOT BRIDGE BIN 2241409	GRAND CONCOURSE BRG OVER	571 feet to the E
270	NYR000150847	MTA NYCT − JEROME LINE 4 TUNNEL TRACK 1	GRAND CONCOURSE BLVD BETWEEN	571 feet to the E
271	NYP004221099	CONSOLIDATED EDISON	E 149 ST & GERARD AVE	571 feet to the SSW
272	NYR000164954	BJS WHOLESALE CLUB BJ0176	610 EXTERIOR ST	577 feet to the NW
273	NY0001492875	AMOCO SERVICE STATION	557 GRAND CONCOURSE	581 feet to the SSE
274	NYU005000450	557 GRAND CONCOURSE	557 GRAND CONCOURCE	581 feet to the SSE
275	NYD981487747	NYC BRONX HOUSE OF DETENTION FOR MEN	653 RIVER AVENUE	590 feet to the NW

276	NYP004657730	CON EDISON	161 E 150 ST F/O	599 feet to the SE
277	NYP004585691	CON EDISON	EAST 149 ST & RIVERA AVE	637 feet to the SW
278	NYP004715868	CON EDISON	W/S E 149 ST 100 N/O E RIVER ST	637 feet to the SW
279	NYP004074407	CONSOLIDATED EDISON	MH3895−150TH ST & EXTERIOR ST	638 feet to the W
280	NYP004146965	CONSOLIDATED EDISON	E 150TH ST & EXTERIOR ST	638 feet to the W
281	NYP004294948	CON EDISON	CROMWELL AVE E/S EXTERIOR ST	638 feet to the W

Air Discharge Sites −− Total Sites − 5 **Database searched at 1/8 MILE − Non−ASTM Database**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
282	3600500116	P.O. GARRAGE	580 GERARD AVE.	0 feet
283	3600500093	MOBIL	611 GRAND CON.	466 feet to the E
284	3600500294	MOBIL	99 E. 149TH ST.	473 feet to the SW
285	3600500235	AMOCO	557 GRAND CONCOURSE	578 feet to the SSE
286	3600500300	NYS EMERGENCY ELECTRICAL PLANT	653 RIVER AVE	594 feet to the NNW

Civil & Administrative Enforcement Docket Sites −− Total Sites − 2 **Database searched at 1/8 MILE − Non−ASTM Database**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
287	NYD981487069	N Y C DEPT OF SANITATION	125 E 149TH ST	368 feet to the SSW
288	NY0001492875	AMOCO	557 GRAND CONCOURSE	576 feet to the SSE

NYC Env. Quality Review − Env. Designation Sites −− Total Sites − 1 **Database searched at 250 FT − ASTM required search distance: Onsite Only**

MAP ID	FACILITY ID	FACILITY NAME	FACILITY STREET	DISTANCE & DIRECTION
289	E−292	BLOCK: 2353 LOT: 1	580 GERARD AVENUE	0 feet

Identified Toxic Sites by Proximity

580−610 Gerard Avenue, Bronx, NY 10451

* Compass directions can vary substantially for sites located very close to the subject property address.

Map Id#	Site Name	Site Street	Approximate Distance & Direction From Property	Toxic Site Category
289	BLOCK: 2353 LOT: 1	580 GERARD AVENUE	0 feet	NYC Env. Qual. Review−"E" Designation
241	US POSTAL SERVICE − VMF	580 GERARD AVE	0 feet	Hazardous Waste Generator/Transporter
242	UNITED STATES POST OFFICE	580 GERARD AVE	0 feet	Hazardous Waste Generator/Transporter
243	AUTORAMA ENTERPRISES OF BRONX	610 GERARD AVE	0 feet	Hazardous Waste Generator/Transporter
282	P.O. GARRAGE	580 GERARD AVE.	0 feet	Air Discharge Site
53	USPS VEHICLE MAINT. FAC.	580 GERARD AVENUE	0 feet	Closed Status Tank Test Failure
181	USPS VEHICLE MAINT. FAC.	580 GERARD AVENUE	0 feet	Closed Status Spill (Misc. Spill Cause)
221	VEHICLE MAINTENANCE FACILITY	580 GERARD AVENUE	0 feet	Petroleum Bulk Storage Site
222	580 GERARD AVENUE	580 GERARD AVENUE	0 feet	Petroleum Bulk Storage Site
244	CON EDISON	602 WALTON AVE	196 feet to the ESE*	Hazardous Waste Generator/Transporter
245	DGI TRANSPORT CORP	586 RIVER AVE	201 feet to the WNW	Hazardous Waste Generator/Transporter
246	CON EDISON − MANHOLE 32269	595 GERARD AVE	201 feet to the WNW	Hazardous Waste Generator/Transporter
89	TM625	GERARD AV / E 150TH ST	213 feet to the SW	Closed Status Spill (Unk/Other Cause)
90	221625; GERARD AVENUE	GERARD AVENUE	213 feet to the SW	Closed Status Spill (Unk/Other Cause)
182	IN SEWER OR VAULT	GERARD AV & E150TH ST	213 feet to the SW	Closed Status Spill (Misc. Spill Cause)
183	MANHOLE 4513	EAST 15TH ST − GERARD AVE	213 feet to the SW	Closed Status Spill (Misc. Spill Cause)
184	MAN HOLE #4513	GERALD AVE AND 150ST.	213 feet to the SW	Closed Status Spill (Misc. Spill Cause)
247	CONSOLIDATED EDISON	MH4513−E 150TH ST & GERARD AVE	213 feet to the SW	Hazardous Waste Generator/Transporter
248	CONSOLIDATED EDISON	TMH625−150TH ST & GERARD AVE	213 feet to the SW	Hazardous Waste Generator/Transporter
249	CONSOLIDATED EDISON − TM 625	150 & GERRARD	213 feet to the SW	Hazardous Waste Generator/Transporter
250	CON EDISON	GERARD AVE & E 150 ST	213 feet to the SW	Hazardous Waste Generator/Transporter
223	AMERICAN SELF STORAGE	586 RIVER AVENUE / 595 GERARD AVENUE	229 feet to the NW	Petroleum Bulk Storage Site
224	ST LUKE‘S HOSPITAL	595 GERARD AVE	229 feet to the NW	Petroleum Bulk Storage Site
185	HARLEM FURNITURE	620 GERARD AVE	262 feet to the NNE	Closed Status Spill (Misc. Spill Cause)
91	208501; WALTON AVE & E150 ST	WALTON AVE & E150 ST	274 feet to the SSE	Closed Status Spill (Unk/Other Cause)
92	214322; WALTON AVE & E150 ST	WALTON AVE & E150 ST	274 feet to the SSE	Closed Status Spill (Unk/Other Cause)
251	CON EDISON	624 WALTON AVE	280 feet to the ENE	Hazardous Waste Generator/Transporter
225	585 GERARD AVENUE CORP.	585 GERARD AVENUE	311 feet to the SW	Petroleum Bulk Storage Site
252	CON EDISON	E 151ST ST & WALTON AVE	337 feet to the NE	Hazardous Waste Generator/Transporter
253	CONSOLIDATED EDISON	MH9515 − E 151ST ST / WALTON AVE	337 feet to the NE	Hazardous Waste Generator/Transporter
254	CON EDISON TRANSFORMER MANHOLE: 643	E 151ST ST & WALTON AVE	337 feet to the NE	Hazardous Waste Generator/Transporter
255	CON EDISON MANHOLE: 9515	E 151ST ST & WALTON AVE	337 feet to the NE	Hazardous Waste Generator/Transporter
256	CON EDISON	E. 151ST. STREET & WALTON	337 feet to the NE	Hazardous Waste Generator/Transporter
257	CON EDISON	WALTON AVE & E. 251 ST	337 feet to the NE	Hazardous Waste Generator/Transporter
258	CON EDISON	''' WALTON AVE & E 151ST ST'''	337 feet to the NE	Hazardous Waste Generator/Transporter
226	DSNY M DISTRICT 9 GARAGE	125 EAST 149TH STREET	362 feet to the SSW	Petroleum Bulk Storage Site
54	NYCDOS TANK TEST FAILURE	545 GERARD AVE / 125 EAST 149TH STREET	367 feet to the SSW	Closed Status Tank Test Failure
55	NYC DEPT OF SANITATION TTF	545 GERARD AVE	367 feet to the SSW	Closed Status Tank Test Failure
93	MANHATTAN WEST 09 DOS −DDC	125 EAST 149TH STREET	367 feet to the SSW	Closed Status Spill (Unk/Other Cause)
287	N Y C DEPT OF SANITATION	125 E 149TH ST	368 feet to the SSW	Civil & Admin. Enforcement Docket Site
186	138 EAST 150TH STREET	138 EAST 150TH STREET	369 feet to the SSE	Closed Status Spill (Misc. Spill Cause)
259	CON EDISON	591 RIVER AVE	378 feet to the W	Hazardous Waste Generator/Transporter
260	NYCDOS	125 E 149TH ST	396 feet to the SSW	Hazardous Waste Generator/Transporter
261	MANHATTAN WEST 9	125 E 149TH ST	396 feet to the SSW	Hazardous Waste Generator/Transporter
262	CON EDISON MANHOLE: 9515	630 WALTON AVE	396 feet to the ENE	Hazardous Waste Generator/Transporter

94	SPILL NUMBER 0406130	CEDAR LANE/EAST 151 ST	399 feet to the E	Closed Status Spill (Unk/Other Cause)
187	APART	175 EAST 151 STREET	404 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
227	151ST AND WALTON LLC	175 EAST 151ST STREET	418 feet to the ENE	Petroleum Bulk Storage Site
95	MOBIL	611 GRAND CONCOURSE	457 feet to the E	Closed Status Spill (Unk/Other Cause)
96	MOBIL GAS 12971(17−KTA)	611 GRAND CONCOURSE	457 feet to the E	Closed Status Spill (Unk/Other Cause)
188	611 GRAND CONCOURSE	611 GRAND CONCOURSE	457 feet to the E	Closed Status Spill (Misc. Spill Cause)
189	611 GRAND CONCOURSE/MOBIL	611 GRAND CONCOURSE	457 feet to the E	Closed Status Spill (Misc. Spill Cause)
190	MOBIL GAS STATION	611 GRAND CONCOURSE	457 feet to the E	Closed Status Spill (Misc. Spill Cause)
191	GAS STATION	611 GRAND CONCOURSE	457 feet to the E	Closed Status Spill (Misc. Spill Cause)
263	MOBIL OIL CORP	611 BRAND CONCOURSE	460 feet to the E	Hazardous Waste Generator/Transporter
228	GLOBAL MONTELLO GROUP #1743	611 GRAND CONCOURSE	463 feet to the E	Petroleum Bulk Storage Site
229	MOBIL S/S 17−KRQ BRONX TERMINA	99 EAST 149TH STREET	465 feet to the SW	Petroleum Bulk Storage Site
230	BP#13990	99−113 149TH STREET	465 feet to the SW	Petroleum Bulk Storage Site
283	MOBIL	611 GRAND CON.	466 feet to the E	Air Discharge Site
284	MOBIL	99 E. 149TH ST.	473 feet to the SW	Air Discharge Site
56	SPARTAN PETROLEUM/ MOBIL STATION	99 EAST 149TH ST	475 feet to the SW	Closed Status Tank Test Failure
57	MOBIL	99 EAST 149TH ST	475 feet to the SW	Closed Status Tank Test Failure
97	MANHATTAN WEST 09 DOS −DDC	99 EAST 149TH ST	475 feet to the SW	Closed Status Spill (Unk/Other Cause)
98	MOBIL	99 EAST 149TH ST	475 feet to the SW	Closed Status Spill (Unk/Other Cause)
99	MOBIL	99 EAST 149TH STREET	475 feet to the SW	Closed Status Spill (Unk/Other Cause)
100	AMOCO SERVICE STATION	99 EAST 149TH STREET	475 feet to the SW	Closed Status Spill (Unk/Other Cause)
101	AMOCO	99 EAST 149TH ST	475 feet to the SW	Closed Status Spill (Unk/Other Cause)
192	AMOCO	99 EAST 149TH ST	475 feet to the SW	Closed Status Spill (Misc. Spill Cause)
231	ENGINE COMPANY 41	150 E. 150TH STREET	477 feet to the SSE	Petroleum Bulk Storage Site
232	151 EAST 151ST STREET	151 EAST 151ST STREET	480 feet to the NNE	Petroleum Bulk Storage Site
264	BP WEST COAST PRODUCTS #13990	99 E 149TH ST	496 feet to the SW	Hazardous Waste Generator/Transporter
233	CONCOURSE METRO TIRE	579 GRAND CONCOURSE	506 feet to the SE	Petroleum Bulk Storage Site
265	PROW BUILDING	560 EXTERIOR ST	532 feet to the WSW	Hazardous Waste Generator/Transporter
193	212353; GERARD AVENUE AND EAST 151 STREET	GERARD AVENUE AND EAST 151 STREET	537 feet to the N	Closed Status Spill (Misc. Spill Cause)
194	212325; GERARD AVENUE AND E151 STREET	GERARD AVENUE AND E151 STREET	537 feet to the N	Closed Status Spill (Misc. Spill Cause)
266	CON EDISON	GERARD AVE & E 151 ST	537 feet to the N	Hazardous Waste Generator/Transporter
267	NYC DOT	WALTON AVE	548 feet to the NE	Hazardous Waste Generator/Transporter
268	CONSOLIDATED EDISON	EAST 150ST GRAND CONCOURSE	557 feet to the SE	Hazardous Waste Generator/Transporter
102	COMMERCIAL PROPERTY	557 GRAND CONCOURSE	568 feet to the SSE	Closed Status Spill (Unk/Other Cause)
195	GRAND CONCOURSE REALTY CO	557 GRAND CONCOURSE	568 feet to the SSE	Closed Status Spill (Misc. Spill Cause)
103	MANHOLE #4506	149TH & GERARD AVE	571 feet to the SSW	Closed Status Spill (Unk/Other Cause)
196	207264; SWC GERARD AVE & E149 ST	SWC GERARD AVE & E149 ST	571 feet to the SSW	Closed Status Spill (Misc. Spill Cause)
197	MANHOLE#4510	EAST 149 ST/GERARD AVE	571 feet to the SSW	Closed Status Spill (Misc. Spill Cause)
234	557 GRAND CONCOURSE	557 GRAND CONCOURSE	571 feet to the SSE	Petroleum Bulk Storage Site
235	JOSE PEREZ	557 GRAND CONCOURSE	571 feet to the SSE	Petroleum Bulk Storage Site
269	NYCDOT BRIDGE BIN 2241409	GRAND CONCOURSE BRG OVER	571 feet to the E	Hazardous Waste Generator/Transporter
270	MTA NYCT − JEROME LINE 4 TUNNEL TRACK 1	GRAND CONCOURSE BLVD BETWEEN	571 feet to the E	Hazardous Waste Generator/Transporter
271	CONSOLIDATED EDISON	E 149 ST & GERARD AVE	571 feet to the SSW	Hazardous Waste Generator/Transporter
288	AMOCO	557 GRAND CONCOURSE	576 feet to the SSE	Civil & Admin. Enforcement Docket Site
272	BJS WHOLESALE CLUB BJ0176	610 EXTERIOR ST	577 feet to the NW	Hazardous Waste Generator/Transporter
285	AMOCO	557 GRAND CONCOURSE	578 feet to the SSE	Air Discharge Site
273	AMOCO SERVICE STATION	557 GRAND CONCOURSE	581 feet to the SSE	Hazardous Waste Generator/Transporter
274	557 GRAND CONCOURSE	557 GRAND CONCOURCE	581 feet to the SSE	Hazardous Waste Generator/Transporter
275	NYC BRONX HOUSE OF DETENTION FOR MEN	653 RIVER AVENUE	590 feet to the NW	Hazardous Waste Generator/Transporter
286	NYS EMERGENCY ELECTRICAL PLANT	653 RIVER AVE	594 feet to the NNW	Air Discharge Site
276	CON EDISON	161 E 150 ST F/O	599 feet to the SE	Hazardous Waste Generator/Transporter
277	CON EDISON	EAST 149 ST & RIVERA AVE	637 feet to the SW	Hazardous Waste Generator/Transporter
278	CON EDISON	W/S E 149 ST 100 N/O E RIVER ST	637 feet to the SW	Hazardous Waste Generator/Transporter

104	MANHOLE 3889	EXTERIOR ST/150TH ST	638 feet to the W	Closed Status Spill (Unk/Other Cause)
105	208591; EXTERIOR ST	EXTERIOR ST	638 feet to the W	Closed Status Spill (Unk/Other Cause)
106	204710; EXTERIOR ST	EXTERIOR ST	638 feet to the W	Closed Status Spill (Unk/Other Cause)
107	NEXT TO YANKEE STADIUM	150TH /EXTERIOR STREET	638 feet to the W	Closed Status Spill (Unk/Other Cause)
108	SPILL NUMBER 0204235	MAJOR DEEGAN/150TH ST	638 feet to the W	Closed Status Spill (Unk/Other Cause)
198	MAJOR DEEGAN EXPRESS WAY	NEAR 150TH ST	638 feet to the W	Closed Status Spill (Misc. Spill Cause)
236	BRONX TERMINAL MARKET WATERFRONT PARK	EXTERIOR STREET & EAST 150TH STREET	638 feet to the W	Petroleum Bulk Storage Site
279	CONSOLIDATED EDISON	MH3895−150TH ST & EXTERIOR ST	638 feet to the W	Hazardous Waste Generator/Transporter
280	CONSOLIDATED EDISON	E 150TH ST & EXTERIOR ST	638 feet to the W	Hazardous Waste Generator/Transporter
281	CON EDISON	CROMWELL AVE E/S EXTERIOR ST	638 feet to the W	Hazardous Waste Generator/Transporter
237	BRONX HOUSE OF DETENTION FOR MEN	653 RIVER AVENUE	644 feet to the NNW	Petroleum Bulk Storage Site
238	C KENNETH IMPORTS CO.	586 CROMWELL AVE	644 feet to the NNW	Petroleum Bulk Storage Site
239	HOSANNA PAPER CO	586 CROMWELL AVE	644 feet to the NNW	Petroleum Bulk Storage Site
109	BRONX HOUSE OF DETENTION	653 RIVER AVE.	654 feet to the NW	Closed Status Spill (Unk/Other Cause)
199	NYC DEPT CORRECTIONS	653 RIVER AVE	654 feet to the NW	Closed Status Spill (Misc. Spill Cause)
200	BRONX DETENTION CENTER	653 RIVER AVE	654 feet to the NW	Closed Status Spill (Misc. Spill Cause)
240	HOSTOS COMMUNITY COLLEGE	120 E 149 ST	660 feet to the S	Petroleum Bulk Storage Site
110	TRANSFORMER MANHOLE 644	EAST 149TH ST	702 feet to the SW	Closed Status Spill (Unk/Other Cause)
111	NORTHBOUD SERVICE RD	EXIT 4 MAJOR DEAGAN	762 feet to the WSW	Closed Status Spill (Unk/Other Cause)
201	149TH ST & GRAND CONCOURS	149TH ST & GRAND CONCOURS	764 feet to the SSE	Closed Status Spill (Misc. Spill Cause)
36	PHASE 2	110 EAST 149TH STREET	792 feet to the SSW	Active Haz Spill (Unknown/Other Cause)
9	GATEWAY CENTER AT BRONX TERMINAL MARKET, EASTERN	EXTERIOR STREET	811 feet to the NW	Brownfields Site
10	110 EAST 149TH STREET	110 EAST 149TH STREET	814 feet to the SSW	Brownfields Site
112	475 WALTON AVENUE	475 WALTON AVENUE	982 feet to the S	Closed Status Spill (Unk/Other Cause)
58	CLOSED−LACKOF RECENT INFO	471 WALTON AVE	1001 feet to the SSW	Closed Status Tank Test Failure
113	MANHOLE 4526	EAST 153RD STREET+GERARD	1007 feet to the NNE	Closed Status Spill (Unk/Other Cause)
114	UNDER CONSTRUCTION	500 EXTERIOR ST	1010 feet to the SSW	Closed Status Spill (Unk/Other Cause)
11	477 GERARD AVENUE	477 GERARD AVENUE	1021 feet to the SSW	Brownfields Site
59	500 GRAND CONCOURSE	500 GRAND CONCOURSE	1021 feet to the SSE	Closed Status Tank Test Failure
115	HOSTOS COMMUNITY COLLEGE	500 GRAND CONCOURSE	1021 feet to the SSE	Closed Status Spill (Unk/Other Cause)
116	CANDLEWOOD AUTO MALL	676 GRAND CONCOURSE	1023 feet to the ENE	Closed Status Spill (Unk/Other Cause)
117	EQUINOX X 149 ST OF DEGAN	475 EXTERIOR STREET	1064 feet to the SW	Closed Status Spill (Unk/Other Cause)
118	PIER # 4 BRONX TERMINAL M	EAST 150TH	1091 feet to the W	Closed Status Spill (Unk/Other Cause)
26	BRONX COUNTY RECYCLING	475 EXTERIOR STREET	1107 feet to the SW	Solid Waste Facility
27	EQUINOX ASSOCIATES, INC. (UNIVERSAL DEMO	475 EXTERIOR STREET	1107 feet to the SW	Solid Waste Facility
28	NEW YORK RECYCLING LLC	475 EXTERIOR STREET	1107 feet to the SW	Solid Waste Facility
119	BROWNFIELD PRO #C203015	49 BRONX TERMINAL MARKET	1151 feet to the NNW	Closed Status Spill (Unk/Other Cause)
12	CONCOURSE VILLAGE WEST APARTMENTS − SOUTH	741 CONCOURSE VILLAGE AND 702 GRAND CONCOURSE	1154 feet to the ENE	Brownfields Site
37	COMMERCIAL PROPRTY	445 GERARD AVE	1161 feet to the SSW	Active Haz Spill (Unknown/Other Cause)
29		BRONX TERMINAL MARKET	1165 feet to the NNW	Solid Waste Facility
38	RESIDENTIAL	702 GRAND CONCORDE	1165 feet to the ENE	Active Haz Spill (Unknown/Other Cause)
13	GERARD AVENUE AND EAST 146TH STREET SITE	417 AND 445 GERARD AVENUE, 440 MAJ WM DEEGAN BLVD	1184 feet to the SSW	Brownfields Site
120	HARLHEM RIVER	145TH STREET BRIDGE	1197 feet to the WSW	Closed Status Spill (Unk/Other Cause)
14	GERARD AVENUE AND EAST 146TH STREET SITE	417 AND 445 GERARD AVENUE, 440 MAJ WM DEEGAN BLVD	1205 feet to the SSW	Brownfields Site
121	RESIDENTS	730 GRAND CONCOURSE	1249 feet to the ENE	Closed Status Spill (Unk/Other Cause)
202	730 GRAND CONCOURSE	730 GRAND CONCOURSE	1249 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
39	SOIL	414 GERARD AVE	1256 feet to the SSW	Active Haz Spill (Unknown/Other Cause)
15	FORMER ROCKET JEWELRY BOX SITE	414 GERARD AVENUE	1270 feet to the SSW	Brownfields Site
16	GERARD AVENUE AND EAST 146TH STREET SITE	417 AND 445 GERARD AVENUE, 440 MAJ WM DEEGAN BLVD	1273 feet to the SSW	Brownfields Site
17	CONCOURSE VILLAGE WEST APARTMENTS − SOUTH	741 CONCOURSE VILLAGE AND 702 GRAND CONCOURSE	1290 feet to the ENE	Brownfields Site
122	PRIVATE DWELLING	710 GERARD AVE	1343 feet to the NNE	Closed Status Spill (Unk/Other Cause)
30		FRANZ SIEGEL PARK	1370 feet to the NE	Solid Waste Facility
46	HOSTOS COMMUNITY COLLEGE	WALTON AVE EAST 144TH ST.	1376 feet to the S	Closed Status Tank Failure

123	MANHOLE # 9489	WALTON AVE EAST 144TH ST.	1376 feet to the S	Closed Status Spill (Unk/Other Cause)
18	GATEWAY CENTER AT BRONX TERMINAL MARKET, WESTERN	EXTERIOR STREET	1460 feet to the NW	Brownfields Site
203	VAULT # 612	EAST 146 ST AND PARK AVE	1485 feet to the SSE	Closed Status Spill (Misc. Spill Cause)
19	FORMER METRO NORTH PROPERTY	730 CONCOURSE VILLAGE WEST	1514 feet to the ENE	Brownfields Site
47	225 EAST 149TH ST/BX	225 EAST 149TH STREET	1525 feet to the ESE	Closed Status Tank Failure
124	VAULT # 3200	231 EAST 149 ST NEAR PARK AVE	1525 feet to the ESE	Closed Status Spill (Unk/Other Cause)
20	CONCOURSE VILLAGE WEST APARTMENTS − NORTH	180 EAST 156TH STREET	1534 feet to the NE	Brownfields Site
40	EXCAVATION SITE	180 EAST 156TH ST	1546 feet to the NE	Active Haz Spill (Unknown/Other Cause)
60	GERARDO WOODWORKING	168 EAST 144TH STREET	1578 feet to the S	Closed Status Tank Test Failure
61	COMMERCAIL BUILD	200 EAST 146TH STREET	1586 feet to the SSE	Closed Status Tank Test Failure
125	IN THE RIVER	145TH STREET BRIDGE	1586 feet to the WSW	Closed Status Spill (Unk/Other Cause)
126	HERLEM RIVER	145TH STREET BRIDGE	1586 feet to the WSW	Closed Status Spill (Unk/Other Cause)
62	APARTMENT	635 MORRIS AVE	1603 feet to the E	Closed Status Tank Test Failure
127	U HAUL #803−68	368 WALTON AVE	1660 feet to the S	Closed Status Spill (Unk/Other Cause)
1	MOTT HAVEN MGP PLUME TRACKDOWN	CONCOURSE VILLAGE WEST AT EAST 156TH STREET	1680 feet to the NE	NYSDEC Inactive Haz Waste Disposal Site
35	UNDERGROUND TANK	234 EAST 149TH ST	1701 feet to the SE	Active Tank Test Failure
63	LINCOLN HOSPITAL TTF	234 EAST 149TH STREET	1701 feet to the SE	Closed Status Tank Test Failure
64	LINCOLN MEDICAL CENTER	234 EAST 149TH ST	1701 feet to the SE	Closed Status Tank Test Failure
128	LINCOLN HOSPITAL AMBULANCE BAY	234 EAST 149	1701 feet to the SE	Closed Status Spill (Unk/Other Cause)
129	LINCOLN HOSPITAL	234 E 149TH ST	1701 feet to the SE	Closed Status Spill (Unk/Other Cause)
130	215 E 144TH STREET	215 E 144TH STREET	1715 feet to the SSE	Closed Status Spill (Unk/Other Cause)
41	PARKING GARAGE	173 E 156TH STREET	1736 feet to the NE	Active Haz Spill (Unknown/Other Cause)
65	PARKING GARAGE − TTF	751 CONCOURSE VILLAGE WEST	1736 feet to the NE	Closed Status Tank Test Failure
131	PARKING GARGAGE	751 CONCOURSE VILLAGE WES	1736 feet to the NE	Closed Status Spill (Unk/Other Cause)
48	EXCAVATION	675 MORRIS AVE	1745 feet to the E	Closed Status Tank Failure
42	FORMER HESS STATION 32GRA	370 GRAND CONCOURSE	1751 feet to the S	Active Haz Spill (Unknown/Other Cause)
43	BP AMOCO STATION #17782	350 GRAND CONCOURSE	1751 feet to the S	Active Haz Spill (Unknown/Other Cause)
132	PS 156	750 GRAND CONCORSE VIL W.	1865 feet to the ENE	Closed Status Spill (Unk/Other Cause)
66	PREMIER METALS	381 CANAL PLACE	1872 feet to the SSE	Closed Status Tank Test Failure
67	381 CANAL PLACE	381 CANAL PLACE	1872 feet to the SSE	Closed Status Tank Test Failure
133	381 CANAL PLACE	381 CANAL PLACE	1872 feet to the SSE	Closed Status Spill (Unk/Other Cause)
134	211656; MORRIS AVE AND E 153 ST	MORRIS AVE AND E 153 ST	1914 feet to the E	Closed Status Spill (Unk/Other Cause)
135	YANKEE STADIUM PARKING LOT	RIVER AVE/ EAST 157TH ST	1936 feet to the N	Closed Status Spill (Unk/Other Cause)
136	SPILL NUMBER 0306819	E 157TH ST/RIVER AVE	1936 feet to the N	Closed Status Spill (Unk/Other Cause)
137	VAULT 5082 E 157TH ST &	E 157TH ST & RIVER AV	1936 feet to the N	Closed Status Spill (Unk/Other Cause)
21	335 GRAND CONCOURSE	335 GRAND CONCOURSE	1952 feet to the S	Brownfields Site
204	MAN HOLE #640	RIDER AVE / E 143RD ST	1966 feet to the SSE	Closed Status Spill (Misc. Spill Cause)
138	SERVICE BOX	325 EXTERIOR ST	1970 feet to the SSW	Closed Status Spill (Unk/Other Cause)
139	VERIZON BUILDING	325 EXTERIOR STREET	1970 feet to the SSW	Closed Status Spill (Unk/Other Cause)
140	BEHIND GAL MANUFACTURERS	50 E.153RD ST	1999 feet to the NNW	Closed Status Spill (Unk/Other Cause)
141	146TH &147TH ST/LENOX AVE	146TH &147TH ST/LENOX AVE	2008 feet to the W	Closed Status Spill (Unk/Other Cause)
142	TECHNIC AUTO SERVICES CORP	699 MORRIS AVE.	2013 feet to the E	Closed Status Spill (Unk/Other Cause)
143	141ST ST& GRAND CONCOURSE	141ST ST &GRAND CONCOURSE	2048 feet to the S	Closed Status Spill (Unk/Other Cause)
34	POWER CHEMICAL CO INC	387 RIDER AVE	2123 feet to the SSE	Hazardous Waste Treat, Storage, Disposal
44	FORMER CITYGAS/LAGE CAR WASH	315 GRAND CONCOURSE	2132 feet to the S	Active Haz Spill (Unknown/Other Cause)
144	ABANDONED GAS STATION	315 GRAND CONCOURSE	2132 feet to the S	Closed Status Spill (Unk/Other Cause)
22	810 RIVER	810 RIVER AVENUE	2148 feet to the NNE	Brownfields Site
23	810 RIVER AVENUE	810 RIVER AVENUE	2148 feet to the NNE	Brownfields Site
31	CON−EDISON @ SERVICE CENTER	281 EXTERIOR STREET	2170 feet to the SSW	Solid Waste Facility
145	VAULT #VS2380	CANAL PL/E 141ST	2177 feet to the SSE	Closed Status Spill (Unk/Other Cause)
146	SPILL NUMBER 9702764	310 GRAND CONCOURSE	2190 feet to the S	Closed Status Spill (Unk/Other Cause)
205	318 GRAND CONCOURSE/BX	318 GRAND CONCOURSE	2190 feet to the S	Closed Status Spill (Misc. Spill Cause)
24	MORRIS COURT APARTMENTS	247 EAST 142ND STREET	2214 feet to the SSE	Brownfields Site

147	VAULT 3328	2 WEST 142ND STREET	2219 feet to the SW	Closed Status Spill (Unk/Other Cause)
25	2350 FIFTH AVENUE	2350 FIFTH AVENUE	2231 feet to the SW	Brownfields Site
2	2350 FIFTH AVE., NEW YORK (AKA, PS 141)	2340 & 2350 FIFTH AVENUE	2235 feet to the SW	NYSDEC Inactive Haz Waste Disposal Site
148	MTA	711 LENOX AVE	2265 feet to the W	Closed Status Spill (Unk/Other Cause)
149	MOTTHAVEN	790 CONCOURSE VILLAGE WES	2269 feet to the NE	Closed Status Spill (Unk/Other Cause)
150	MANHOLE #7087	IFO 301 E 149TH SR	2287 feet to the ESE	Closed Status Spill (Unk/Other Cause)
151	VAULT 3804	5TH AV/W141ST ST	2304 feet to the SW	Closed Status Spill (Unk/Other Cause)
152	143RD ST ASSOCIATES	44−58 WEST 143RD ST	2321 feet to the WSW	Closed Status Spill (Unk/Other Cause)
153	TRANSFORMER VAULT #2190	CONCOURSE VILLAGE/EAST158	2349 feet to the NE	Closed Status Spill (Unk/Other Cause)
154	GETTY#58409	119 W. 145TH ST	2372 feet to the W	Closed Status Spill (Unk/Other Cause)
206	GETTY S/S #58409 − GETTY PROPERTIES	119 W. 145TH ST	2372 feet to the W	Closed Status Spill (Misc. Spill Cause)
49	101−125 WEST 147TH ST.	101−125 WEST 147TH ST.	2380 feet to the WNW	Closed Status Tank Failure
155	SPILL NUMBER 9900030	2541 7TH AVE	2380 feet to the WNW	Closed Status Spill (Unk/Other Cause)
156	SPILL NUMBER 0212767	101/125 W.147TH ST	2380 feet to the WNW	Closed Status Spill (Unk/Other Cause)
50	101−165 W 146TH ST/BX	1010165 WEST 146TH STREET	2402 feet to the WNW	Closed Status Tank Failure
68	146TH ST & LENOX AVE	721 LENOX AVE	2402 feet to the WNW	Closed Status Tank Test Failure
69	MOTHER CLARA HALE (146TH ST) DEPOT −NYCT	721 LENOX AVE	2402 feet to the WNW	Closed Status Tank Test Failure
70	MOTHER CLARA HALE (146TH ST) DEPOT −NYCT	721 LENOX AVE	2402 feet to the WNW	Closed Status Tank Test Failure
71	CONTAINMENT AREA	721 LENOX AVE	2402 feet to the WNW	Closed Status Tank Test Failure
72	MOTHER CLARA HALE DEPOT	721 LENOX AVE	2402 feet to the WNW	Closed Status Tank Test Failure
73	MOTHER CLARA HALE DEPOT	721 LENOX AVE	2402 feet to the WNW	Closed Status Tank Test Failure
74	NYC TRANSIT	146TH ST & LENOX	2402 feet to the WNW	Closed Status Tank Test Failure
157	HALE (146TH STREET) DEPOT−NYCT	721 LENNOX AVE	2402 feet to the WNW	Closed Status Spill (Unk/Other Cause)
158	146TH ST BUS DEPOT	721 LENOX AVE	2402 feet to the WNW	Closed Status Spill (Unk/Other Cause)
159	146TH STREET DEPOT	146TH STREET DEPOT	2402 feet to the WNW	Closed Status Spill (Unk/Other Cause)
160	146 WEST 147TH ST/MANH	146 WEST 147TH STREET	2402 feet to the WNW	Closed Status Spill (Unk/Other Cause)
161	MOTHER CLARA HILL BUS	721 LENOX AVE	2402 feet to the WNW	Closed Status Spill (Unk/Other Cause)
162	MOTHER CLARA HILL DEPOT −NYCT	721 LENOX AVE	2402 feet to the WNW	Closed Status Spill (Unk/Other Cause)
163	CLARA HALE BUS DEPOT	735 LENOX AVE	2402 feet to the WNW	Closed Status Spill (Unk/Other Cause)
164	MOTHER CLARA HALE DEPOT	721 LENOX AVE	2402 feet to the WNW	Closed Status Spill (Unk/Other Cause)
165	CLARA HALE BUS DEPOT	721 LENOX AVE	2402 feet to the WNW	Closed Status Spill (Unk/Other Cause)
166	HALE (146TH STREET) DEPOT	LENOX AVE/146TH ST	2402 feet to the WNW	Closed Status Spill (Unk/Other Cause)
207	CLARE HALE DEPOT	721 LENOX AVE	2402 feet to the WNW	Closed Status Spill (Misc. Spill Cause)
208	−NYCT / 146 ST	721 LENOX AVE	2402 feet to the WNW	Closed Status Spill (Misc. Spill Cause)
209	146TH ST DEPOT	721 LENOX AVE	2402 feet to the WNW	Closed Status Spill (Misc. Spill Cause)
210	MOTHER CLARA HALE DEPOT	721 LENOX AVE	2402 feet to the WNW	Closed Status Spill (Misc. Spill Cause)
211	MOTHER CLARA HILL BUS	721 LENOX AVE	2402 feet to the WNW	Closed Status Spill (Misc. Spill Cause)
212	MOTHER CLARA HALE BUS DEP	721 LENOX AVE	2402 feet to the WNW	Closed Status Spill (Misc. Spill Cause)
45	FREDERICK DOUGLASS ACADEMY	2581 ADAM CLAYTON POWELL JR BLVD	2412 feet to the WNW	Active Haz Spill (Unknown/Other Cause)
75	YANKEE STADIUM	800 RUPPERT PLACE	2414 feet to the N	Closed Status Tank Test Failure
76	YANKEE STADIUM	161 STREET/RIVER AVE	2414 feet to the N	Closed Status Tank Test Failure
213	YANKEE STADIUM	153/157 STREET	2414 feet to the N	Closed Status Spill (Misc. Spill Cause)
32	ECOLOGY RECYCLING PLANT		2424 feet to the S	Solid Waste Facility
33	ECOLOGY RECYCLING PLANT	321 CANAL PLACE	2424 feet to the S	Solid Waste Facility
77	MELROSE−NYCHA	304 E 156TH ST	2434 feet to the E	Closed Status Tank Test Failure
78	MELROSE HOUSES	304 E 156TH ST	2434 feet to the E	Closed Status Tank Test Failure
79	MELROSE HOUSES	304 E 156TH ST	2434 feet to the E	Closed Status Tank Test Failure
80	MELROSE HOUSES −NYCHA	304 E 156TH ST	2434 feet to the E	Closed Status Tank Test Failure
81	MELROSE HOUSES	304 E 156TH ST	2434 feet to the E	Closed Status Tank Test Failure
82	MELROSE HOUSES −NYCHA	304 E 156TH ST	2434 feet to the E	Closed Status Tank Test Failure
167	MELROSE −NYCHA	304 E 156TH ST	2434 feet to the E	Closed Status Spill (Unk/Other Cause)
168	MELROSE HOUSE −NYCHA	304 E 156TH ST	2434 feet to the E	Closed Status Spill (Unk/Other Cause)
169	APARTMENT BUILDING	250 WALTON AVE	2482 feet to the S	Closed Status Spill (Unk/Other Cause)

170	SERVICE BOX #4855	261 GR CONCOURSE/138TH ST	2482 feet to the S	Closed Status Spill (Unk/Other Cause)
83	BROWNS CO COURT HOUSE	851 GRAND CONCOURSE	2485 feet to the NNE	Closed Status Tank Test Failure
84	GASETERIA	115 EAST 138TH STREET	2508 feet to the SSW	Closed Status Tank Test Failure
171	GASETERIA	115 EAST 138TH STREET	2508 feet to the SSW	Closed Status Spill (Unk/Other Cause)
51	775 CONCORSE VILLAGE EAST	775 CONCORSE VILLAGE EAST	2509 feet to the ENE	Closed Status Tank Failure
172	HIGHRISE BUILDING	775 CONCOURSE VILL EAST	2509 feet to the ENE	Closed Status Spill (Unk/Other Cause)
173	STORAGE UNIT	773 CONCOURSE VILLAGE E	2509 feet to the ENE	Closed Status Spill (Unk/Other Cause)
214	775 CONCOURSE VILLAGE E	775 CONCOURSE VILLAGE E	2509 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
215	775 CONCOURSE VILLAGE E	775 CONCOURSE VILLAGE E	2509 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
216	775 CONCORD VILLAGE E/BX	775 CONCORD VILLAGE EAST	2509 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
217	MULTI FAM DWG/COMM	775 CONCOURSE VILLAGE	2509 feet to the ENE	Closed Status Spill (Misc. Spill Cause)
174	218947; RUPPERT PLACE	RUPPERT PLACE	2531 feet to the N	Closed Status Spill (Unk/Other Cause)
175	SPILL NUMBER 0200438	140TH ST & CANAL PL	2532 feet to the S	Closed Status Spill (Unk/Other Cause)
218	SCHOOL #X183	339 MORRIS AV	2534 feet to the SSE	Closed Status Spill (Misc. Spill Cause)
85	120−128 WEST 145TH STREET	120−128 WEST 145TH STREET	2583 feet to the W	Closed Status Tank Test Failure
86	120−128 W.145TH ST	120−128 W.145TH ST	2583 feet to the W	Closed Status Tank Test Failure
176	HESS/MERIT GAS STA.	120 WEST 145TH STREET	2583 feet to the W	Closed Status Spill (Unk/Other Cause)
177	FORMER MERIT/FORMER HESS STATION	122 WEST 145TH ST	2583 feet to the W	Closed Status Spill (Unk/Other Cause)
52	PATTERSON HOUSES	301 EAST 143RD STREET	2594 feet to the SE	Closed Status Tank Failure
87	PATTERSON HOUSES −NYCHA	301 EAST 143RD STREET	2594 feet to the SE	Closed Status Tank Test Failure
178	PATTERSON HOUSES −NYCHA	301 EAST 143RD STREET	2594 feet to the SE	Closed Status Spill (Unk/Other Cause)
219	PATTERSON HOUSES −NYCHA	301 EAST 143RD STREET	2594 feet to the SE	Closed Status Spill (Misc. Spill Cause)
179	STAINED SOIL FOUND IN EXCAVATION	EAST 138 STREET & EXTERIOR STREET	2595 feet to the SSW	Closed Status Spill (Unk/Other Cause)
220	MAJOR DEEGAN & 138TH ST/B	MAJOR DEEGAN/138TH ST.	2608 feet to the SSW	Closed Status Spill (Misc. Spill Cause)
88	RESIDENTIAL	2300 5TH AVE	2638 feet to the SW	Closed Status Tank Test Failure
180	15 WEST 139 STREET	15 W 139TH ST	2638 feet to the SW	Closed Status Spill (Unk/Other Cause)
3	2568 PARK	2568 PARK AVENUE	2772 feet to the S	NYSDEC Inactive Haz Waste Disposal Site
4	FILM STORAGE WAREHOUSE SITE	203−209 WEST 146TH STREET	3122 feet to the WNW	NYSDEC Inactive Haz Waste Disposal Site
5	RIDER AVENUE GAS STATION	250 EAST 138TH STREET	3320 feet to the S	NYSDEC Inactive Haz Waste Disposal Site
6	FORMER MELROSE AVENUE DRY CLEANER	753 MELROSE AVENUE	3531 feet to the E	NYSDEC Inactive Haz Waste Disposal Site
7	VISTA 1	2401 THIRD AVENUE	4387 feet to the SSW	NYSDEC Inactive Haz Waste Disposal Site
8	BRONXCHESTER URA SITE 1A	BROOK AVENUE AT EAST 156TH STREET	4465 feet to the E	NYSDEC Inactive Haz Waste Disposal Site

Toxics Targeting
1 Mile Radius Map

580-610 Gerard Avenue

Bronx, NY 10451

Bronx County

National Priority List (NPL)

Inactive Hazardous Waste Disposal Registry Site

Inact. Haz Waste Disp. Registry Qualifying

RCRA Corrective Action Facility

Site Location

Waterbody

County Border

Railroad Tracks

1 Mile Radius

1/2 Mile Radius

1/4 Mile Radius

1/8 Mile Radius

1 0 1/8 1/4 1/2 1

Distance in Miles

Toxics Targeting
1/2 Mile Radius Map

Excludes Closed Spills

580-610 Gerard Avenue

Bronx, NY 10451

Bronx County

Delisted NPL Site

CERCLIS Superfund Non-NFRAP Site

CERCLIS Superfund NFRAP Site

Hazardous Waste Treater, Storer, Disposer

Hazardous Substance Waste Disposal Site

Solid Waste Facility

Brownfields Site

Active Spill

MTBE Gasoline Additive Spill

Site Location

Waterbody

County Border

Railroad Tracks

1 Mile Radius

1/2 Mile Radius

1/4 Mile Radius

1/8 Mile Radius

1/2 0 1/16 1/8 1/4 1/2

Distance in Miles

Toxics Targeting
1/2 Mile Radius Map

Closed Spills only

580-610 Gerard Avenue

Bronx, NY 10451

Bronx County

580-610 Gerard Avenue

Closed Spill

MTBE Gasoline Additive Spill

Site Location

County Border

1 Mile Radius

1/4 Mile Radius

Waterbody

Railroad Tracks

1/2 Mile Radius

1/8 Mile Radius

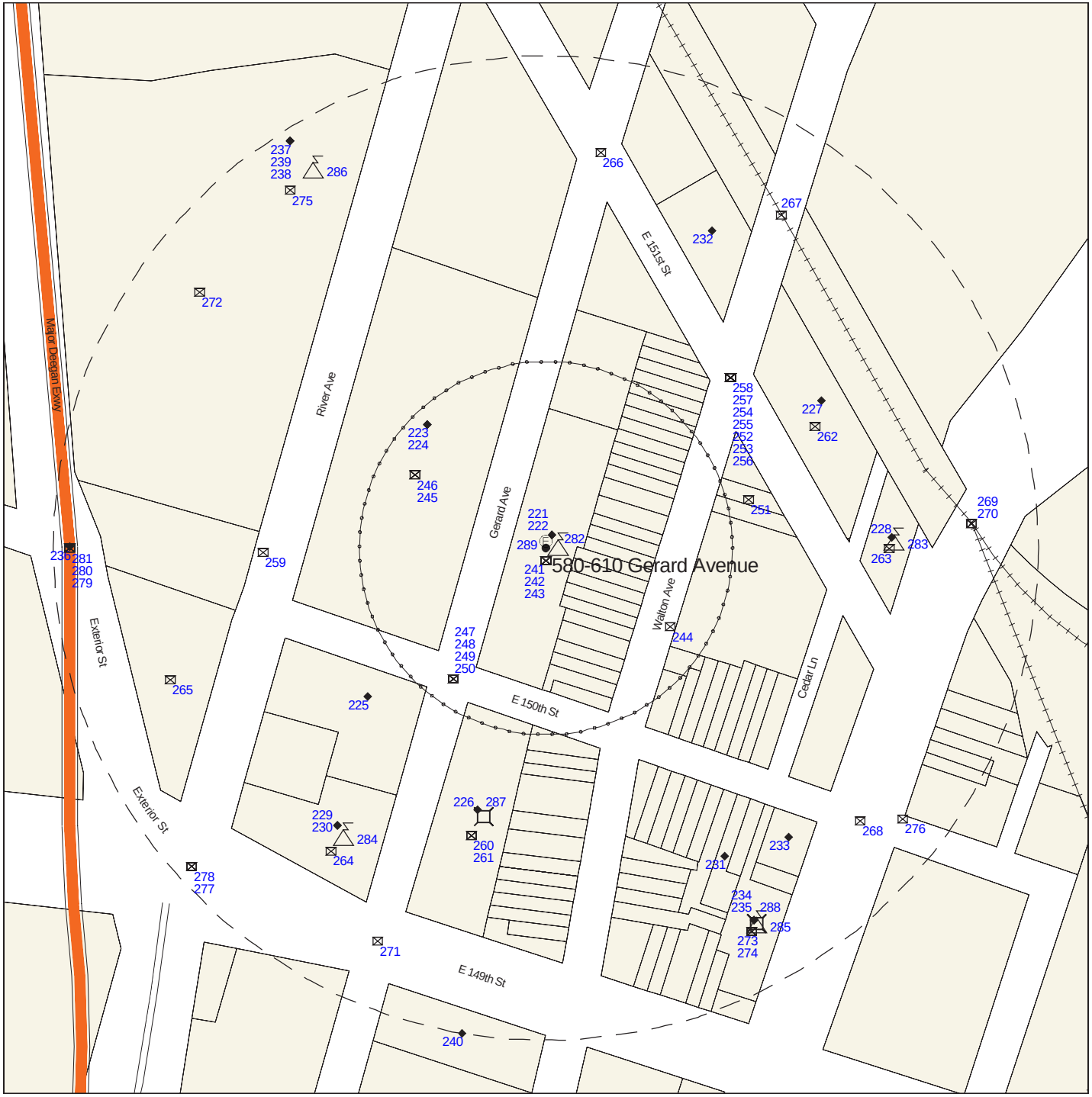
1/2 0 1/16 1/8 1/4 1/2

Distance in Miles

Toxics Targeting
1/8 Mile Radius Map

580-610 Gerard Avenue

Bronx, NY 10451



Bronx County

- Major Oil Storage Facility
- Chemical Storage Facility
- Toxic Release
- Wastewater Discharge
- Hazardous Waste Generator, Transp.
- Enforcement Docket Facility
- Air Release
- Env Qual Review E Designation
- Petroleum Bulk Storage Facility
- Historic Utility Site
- Site Location
- Waterbody
- County Border
- Railroad Tracks
- 1/8 Mile Radius
- 250 Foot Radius

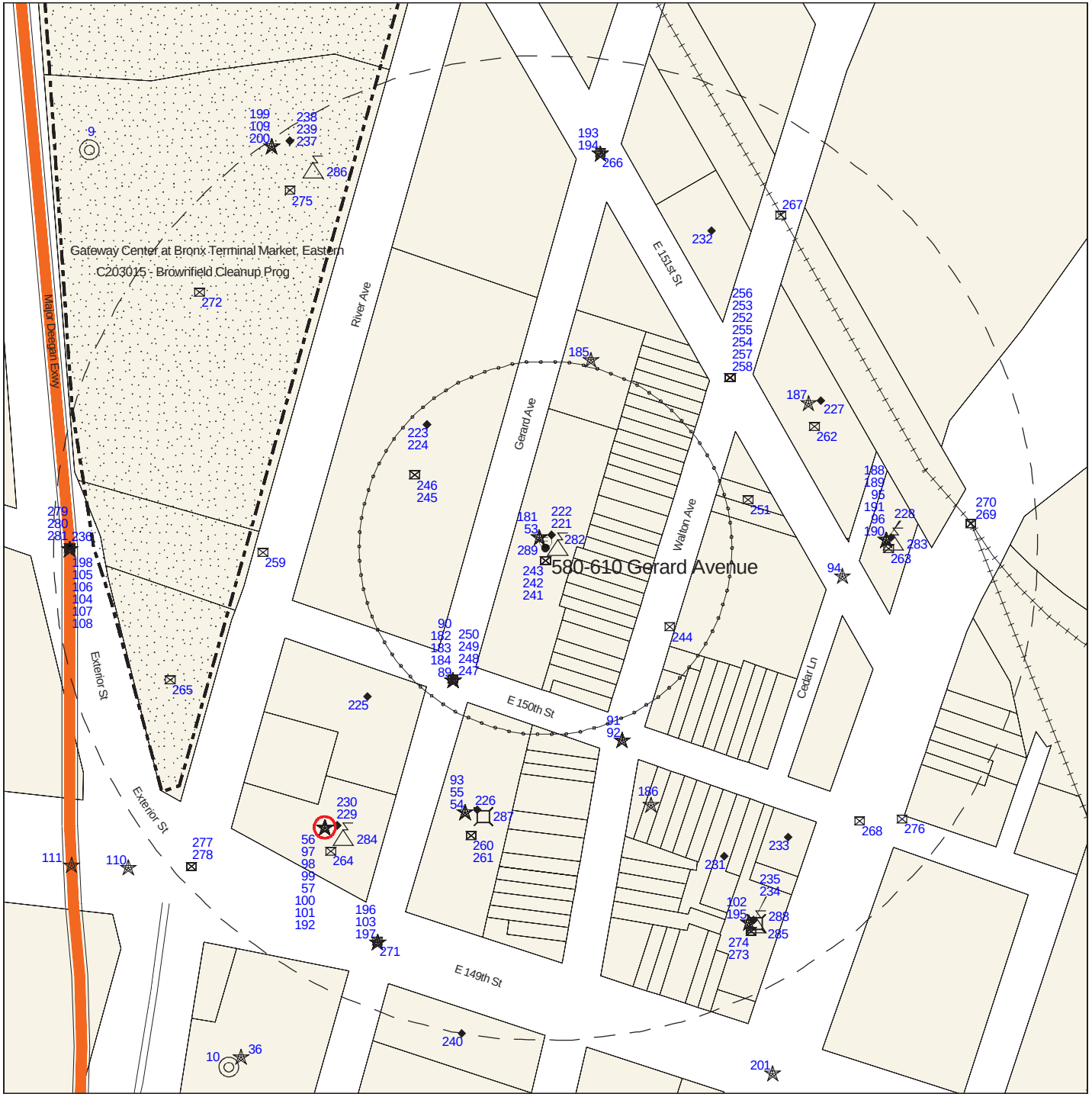
1/8 | 0 | 1/16 | 1/8

Distance in Miles

Toxics Targeting
1/8 Mile Closeup Map

580-610 Gerard Avenue

Bronx, NY 10451



Bronx County

- National Priority List (NPL) *
- Delisted NPL Site **
- CERCLIS Superfund Non-NFRAP Site **
- CERCLIS Superfund NFRAP Site **
- Inactive Hazardous Waste Disposal Registry Site *
- Inact. Haz Waste Disp. Registry Qualifying *
- Hazardous Waste Treater, Storer, Disposer **
- RCRA Corrective Action Facility *
- Hazardous Substance Waste Disposal Site **
- Solid Waste Facility **
- Major Oil Storage Facility ****
- Brownfields Site **
- Chemical Storage Facility ****
- Hazardous Material Spill **
- Toxic Release ****
- MTBE Gasoline Additive Spill **
- Wastewater Discharge ****
- Petroleum Bulk Storage Facility ****
- Hazardous Waste Generator, Transp. ****
- Historic Utility Site ****
- Enforcement Docket Facility ****
- Air Release ****
- Env Qual Review E Designation *****
- Remediation Site Borders
- Site Location
- Waterbody
- County Border
- Railroad Tracks
- 1/8 Mile Radius
- 250 Foot Radius

1/8 — 0 — 1/16 — 1/8

Distance in Miles

* 1 Mile Search Radius

** 1/2 Mile Search Radius

**** 1/8 Mile Search Radius

***** Onsite Search (250 Ft)

Toxics Targeting
Tax Parcel Map

580-610 Gerard Avenue

Bronx, NY 10451

Bronx County

- National Priority List (NPL)
- Delisted NPL Site
- CERCLIS Superfund Non-NFRAP Site
- CERCLIS Superfund NFRAP Site
- Inactive Hazardous Waste Disposal Registry Site
- Inact. Haz Waste Disp. Registry Qualifying
- Hazardous Waste Treater, Storer, Disposer
- RCRA Corrective Action Facility
- Hazardous Substance Waste Disposal Site
- Solid Waste Facility
- Major Oil Storage Facility
- Brownfields Site
- Chemical Storage Facility
- Hazardous Material Spill
- Toxic Release
- MTBE Gasoline Additive Spill
- Wastewater Discharge
- Petroleum Bulk Storage Facility
- Hazardous Waste Generator, Transp.
- Historic Utility Site
- Enforcement Docket Facility
- Air Release
- Env Qual Review E Designation
- Remediation Site Borders
- Site Location
- Waterbody
- County Border
- Railroad Tracks

Tax Parcel Information Table

580−610 Gerard Avenue
Bronx, NY 10451

Subject Parcel or Parcels

BBL #	Address	Owner	Zoning District(s)	Building Class	# of Buildings	Year Built	Assessment	Lot Area
2−02353−0001	580 GERARD AVENUE	NRP PROPERTY 2	M1−2	G2	1	1951	689400	31200

Other Parcels Found On The Tax Parcel Map

BBL #	Address	Owner	Zoning District(s)	Building Class	# of Buildings	Year Built	Assessment	Lot Area
2−02353−0020	640 GERARD AVENUE	JOHN J HORVATH	M1−2 R6	F5	3	1950	92700	10570
2−02353−0028	148 EAST 151 STREET	JOHN J HORVATH	R6	F9	1	1955	161100	1244
2−02352−0028	125 EAST 149 STREET	GERARD REALTY COMPANY	M1−2	G2	1	1931	1321650	28462
2−02353−0043	611 WALTON AVENUE	GARDOSE, RAMON S	R6	B3	1	1901	9852	1530
2−02353−0034	631 WALTON AVENUE	TORRES, RUBEN	R6	C0	1	1901	9254	1541
2−02353−0045	607 WALTON AVENUE	POWELL, CHARLES	R6 M1−2	A9	1	1901	8907	1650
2−02348−0033	143 EAST 150 STREET	PABON JULIO	R6	A9	1	1901	7862	1899
2−02348−0015	150 EAST 151 STREET	626 WALTON AVE LLC	R6	C2	1	2010	325977	1920
2−02348−0029	151 EAST 150 STREET	150TH STREET,	R6	G7	0		25650	2076
2−02353−0039	621 WALTON AVENUE	CASWELL, RONALD DAVID	R6	B3	1	1901	8570	1518
2−02348−0004	600 WALTON AVENUE	BANNI PERSAD	R6	A9	1	1901	9578	1277
2−02353−0032	635 WALTON AVENUE	PEARL DEBORAH	R6	B1	1	1901	9578	1546
2−02348−0001	137 EAST 150 STREET	DERRICK W SMITH	R6	C0	1	1920	8557	2349
2−02348−0032	145 EAST 150 STREET	BEGLEY, NANCY	R6	A9	1	1901	8438	1899
2−02353−0046	605 WALTON AVENUE	GUEVARA, ROBERTO	R6 M1−2	A9	1	1901	8907	1650
2−02353−0053	591 WALTON AVENUE	THOMPSON, AL	R6	C0	1	1901	13962	1630
2−02353−0054	589 WALTON AVENUE	LYNN S SMITH	R6	C0	2	1915	21410	1810
2−02353−0036	627 WALTON AVENUE	GARZON, BEATRIZ	R6	C0	1	1901	5214	1553
2−02352−0015	585 GERARD AVENUE	585 GERARD AVENUE COR	M1−2	F1	1	1913	907650	25000
2−02348−0005	192 EAST 151 STREET	192 EAST 151 ST ASSOC	R6	O1	1	1956	1499400	31000
2−02353−0041	615 WALTON AVENUE	J BELLVE & UX	R6	B3	1	1901	7862	2304
2−02353−0055	587 WALTON AVENUE	COVER, SOPHIA	R6	C0	1	1918	20530	1570
2−02348−0031	147 EAST 150 STREET	ABEL CORREA	R6	A9	1	1901	8086	2063
2−02353−0042	613 WALTON AVENUE	THOMPSON, AL	R6	B2	1	1901	7538	1533
2−02353−0040	617 WALTON AVENUE	BROWN, CYNTHIA	R6	B3	1	1901	8557	2311
2−02353−0016	620 GERARD AVENUE	HAL HALMAN REALTY CO	M1−2	F4	2	1931	225000	12927
2−02348−0013	622 WALTON AVENUE	ZAMBRANA, CLARITZA I	R6	B3	1	1901	12349	2625
2−02353−0033	633 WALTON AVENUE	AYALA, MARIANGELICA	R6	C0	1	1901	12089	1546
2−02353−0037	625 WALTON AVENUE	KIRKWOOD, CHRISTOPHER	R6	C0	1	1901	8907	1550
2−02353−0038	623 WALTON AVENUE	PEREZ, GERMAN	R6	A9	1	1901	8907	1526
2−02353−0035	629 WALTON AVENUE	MAXWELL, ANGELA	R6	B3	1	1901	8907	1535
2−02348−0030	149 EAST 150 STREET	150TH STREET,	R6	G7	1		25650	2063
2−02352−0041	581 WALTON AVENUE	LEON JAIME S	R6	B9	1	1901	8210	1535
2−02348−0014	624 WALTON AVENUE	JOSEPH HINTON	R6	B3	1	1901	12372	1937
2−02353−0044	609 WALTON AVENUE	JOHNSON SECURITY BURE	R6	O9	1	1901	102150	1502
2−02354−0001	580 RIVER AVENUE	GERARD AVENUE LLC	M1−2	E7	1	1952	4966200	98973
2−02352−0040	583 WALTON AVENUE	BHT LIMITED ,LP BY BH	R6	B9	2	1901	8210	2136
2−02348−0035	139 EAST 150 STREET	WARREN GERALD	R6	A9	1	1901	7538	1581

BBL #	Address	Owner	Zoning District(s)	Building Class	# of Buildings	Year Built	Assessment	Lot Area
2−02353−0030	639 WALTON AVENUE	SPAULDING, DERICK	R6	B3	1	1901	9578	1656
2−02353−0031	637 WALTON AVENUE	GUERRA LUZ	R6	A9	1	1901	9578	1546
2−02353−0047	603 WALTON AVENUE	GRAVES, BARBARA C.	R6 M1−2	C0	1	1901	8907	1650
2−02353−0052	593 WALTON AVENUE	PEDRO J PUJOLS	R6	C0	1	1901	13408	1616
2−02353−0050	597 WALTON AVENUE	DAISY BELLAMY	R6	B1	1	1901	8907	1545
2−02348−0034	141 EAST 150 STREET	CHIDDICK VINCE	R6	A9	1	1901	7862	1891
2−02353−0051	595 WALTON AVENUE	LEVY, CECELIA	R6	C3	1	1915	35827	2250
2−02353−0049	599 WALTON AVENUE	WILSON, RUBY	R6 M1−2	A5	1	1901	9254	1853
2−02353−0029	641 EAST 151 STREET	HERBERT, WENTWORTH	R6	B3	1	1901	8210	1344
2−02353−0048	601 WALTON AVENUE	MOJICA, LUIS	R6 M1−2	B9	1	1901	9254	1650

Section Two: Toxic Site Profiles

The heading of each *Toxic Site Profile* refers to the site's map location and details:

- The facility name, address, city, state, and zip code.
- Any changes that were made to a site's address in order to map its location.
- The site mapping method that was used (see ***How Sites are Located***, at the end of this section for more information).

Toxic Site Profiles summarize information provided by site owners or operators and government agencies regarding various toxic chemical activities reported at each site, such as:

- Whether chemicals were stored, produced, transported, discharged or disposed of.
- The name of chemicals and their Chemical Abstract Series (CAS) numbers.
- The amount of chemicals and the units (gallons/pounds) the chemical was measured in.
- Whether the site or storage tanks at the site are currently active or inactive.
- Special codes used by government agencies to regulate hazardous waste activities at some sites, or a complete description of the codes follows the profiles section.

For selected individual chemicals reported at various toxic sites, some potential health effect summary information appears below the site profile. Each potential health effect summary identifies chemicals by name and by Chemical Abstract Series (CAS) Number. An "x" under each potential health effect heading indicates positive toxicity testing results reported by the National Institute of Occupational Safety and Health's Registry of Toxic Effects of Chemical Substances (RTECS). Some chemicals (mostly appearing in profiles of Hazardous Waste facilities), are reported as mixtures, and RTECS health effect information is only available for individual chemicals. In addition, RTECS only provides information on approximately 100,000 common chemicals. Consequently, the absence of potential health effect summary information for a particular chemical identified in a Toxic Site Profile does not necessarily mean that the chemical does not pose potential health effects.

The Maximum Contaminant Level (MCL) in drinking water allowed for selected chemicals is also noted. In most cases, the only applicable MCL has been set by the New York State Department of Health (NYSDOH). Where NYSDOH has not set an MCL, the federal standard, if one exists, is listed and is marked by an asterisk.

Presented below are column headings that describe the health effect definitions used in RTECS and applicable New York State and federal drinking water standards. Reference sources for information presented in this section are also provided.

ACUTE TOX: **Acute Toxicity**: Short-term exposure to this chemical can cause lethal and non-lethal toxicity effects not included in the following four categories.

TUMOR TOX: **Tumorigenic Toxicity**: The chemical can cause an increase in the incidence of tumors.

MUTAG TOX: **Mutagenic Toxicity**: The chemical can cause genetic alterations that are passed from one generation to the next.

REPRO TOX: **Reproductive Toxicity**: May signify one of the following effects: maternal effects, paternal effects, effects on fertility, effects on the embryo or fetus, specific developmental abnormalities, tumorigenic effects, or effects on the newborn (only positive reproductive effects data for mammalian species are referenced).

IRRIT TOX: **Primary Irritant**: The chemical can cause eye or skin irritation.

MCL: **Drinking Water Standard - Maximum Contaminant Level** (MCL) listed under Drinking Water Supplies, 10 NYCRR Part 5, Subparts 1.51(f),(g), and (h) for NYDOH MCL's and under the Safe Drinking Water Act, 40 CFR 141, Subparts B and G, (* indicates value for total trihalomethanes) for federal MCL's.

Reference Source for Toxicity Information: Registry of Toxic Effects of Chemical Substances (RTECS), NIOSH (on-line database); For further information, contact: NIOSH, 4676 Columbia Parkway, Cincinnati, OH, 45226, 800/35-NIOSH.

Reference Source for Drinking Water Standards: New York State Department of Health, Bureau of Toxic Substances Assessment, 2 University Place, Room 240, Albany, NY 12203, 518/458-6373.

U.S. Environmental Protection Agency, Office of Drinking Water, 401 M St SW, Mailstop WH-556, Washington, DC, 20460, 202/260-5700.

Inactive Hazardous Waste Disposal Site Classifications:

1 -- Causing or presenting an imminent danger of causing irreversible or irreparable damage to the public health or the environment -- immediate action required;
2 -- Significant threat to the public health or environment -- action required;
3 -- Does not Present a significant threat to the environment or public health -- action may be deferred;
4 -- Site properly closed --requires continued management;
5 -- Site properly closed, no evidence of present or potential adverse impact -- no further action required;
2a -- This temporary classification has been assigned to sites where there is inadequate data to assign them to the five classifications specified by law;
A -- Work underway and not yet complete;
P -- Potential Site;
$D_{1, 2, 3}$ -- Delisted Site (1: hazardous waste not found; 2: remediated; 3: consolidated site or site incorrectly listed);
C -- Remediation Complete (formerly D2).

NO NATIONAL PRIORITIES LIST (NPL) SITES IDENTIFIED WITHIN 1 MILE SEARCH RADIUS

INACTIVE HAZ WASTE DISPOSAL REGISTRY OR REGISTRY−QUALIFYING SITES IDENTIFIED WITHIN 1 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 1 **MOTT HAVEN MGP PLUME TRACKDOWN** **Facility Id: 203042**
CONCOURSE VILLAGE WEST AT EAST 156TH STREET BRONX, NY 10451 TT−Id: 120A−0007−247

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE (1)
Approximate distance from property: 1680 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: W CONCOURSE VILLAGE / E 156TH ST
Revised zip code: NO CHANGE

****

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 203042
CLASSIFICATION CODE: N REGION: 2 DEC ID: 382480
CLASSIFICATION CODE DESCRIPTION:
No further action

NAME OF SITE: Mott Haven MGP Plume trackdown
STREET ADDRESS: Concourse Village West at East 156th Street TOWN: New York City
CITY: Bronx ZIP: 10451 COUNTY: Bronx

ESTIMATED SIZE:

SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond−

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:

IDENTIFIER	SOURCE

The following cross reference(s) have been deleted from the registry. Data reflects previous information.

0551708	Spill No.
C203030	BCP Site ID

SITE OWNER/OPERATOR/REPOSITORY INFORMATION:
None reported

HAZARDOUS WASTE DISPOSAL PERIOD:

SITE DESCRIPTION:
The site location is currently described as the inersection of Concourse Village West and East 156th Street, Bronx because no source area has yet been identified. According to historic information and Sanborn maps, the MGP had been had been a small facility located on a former rail yard, the Former Metro North Property BCP# C203030 that served the rail yard. Groundwater data show elevated concentrations of MGP related contaminates such as naphthalene migrating from off−site toward the Former Metro North Site. It appears that there is an MGP waste disposal area contributing to the groundwater contamination. The objective of the preliminary site assessment (PSA) is to locate the source of the groundwater contamination determine if a remedy is necessary and feasible, if so, is a remedial investigation necessary. The site did not qualify for addition to the Registry of Inactive Hazardous Waste Sites.

CONFIRMED HAZARDOUS WASTE DISPOSED:
None reported

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
None provided

ASSESSMENT OF HEALTH PROBLEMS:
None provided

PROJECT COMPLETIONS:
Operable Unit 01 − Remedial Program

PROJECT	DESCRIPTION	END DATE	STATUS
Site Characterization		10/06/2009	Actual

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air−	Surface Water−	Groundwater−	Soil−	Sediment−
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater−	Drinking Water−	Surface Water−	Air−	

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State−	Federal−
STATUS:	Negotiation in Progress−		Order Signed−	
REMEDIAL ACTION:	Proposed−	Under Design−	In Progress−	Completed−
NATURE OF ACTION:				

Map Identification Number 2 **2350 FIFTH AVE., NEW YORK (AKA, PS 141)** **Facility Id: 231004**
2340 & 2350 FIFTH AVENUE NEW YORK, NY 10037 TT−Id: 120A−0002−049

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2235 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Special Note: This site is one of 421 Inactive Hazardous Waste Disposal Sites that reportedly are being reinvestigated for chlorinated solvents that may pose soil gas vapor intrusion hazards. Prior to 2003, many of these sites were determined to be cleaned up or not to pose hazards.

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 231004
CLASSIFICATION CODE: 04 REGION: 2 DEC ID: 57691
CLASSIFICATION CODE DESCRIPTION:
Site is properly closed − requires continued management.

NAME OF SITE: 2350 Fifth Ave., New York (aka, PS 141)
STREET ADDRESS: 2340 & 2350 Fifth Avenue TOWN: New York City
CITY: New York ZIP: 10037 COUNTY: New York

ESTIMATED SIZE: 1.543 Acres

SITE TYPE: Dump− Structure−X Lagoon− Landfill− Treatment Pond−

INSTITUTIONAL/ENGINEERING CONTROLS:

CONTROL:	IN−PLACE DATE:
Ground Water Use Restriction	12/24/2014
Vapor Mitigation	12/24/2014
Soil Management Plan	12/24/2014
Cover System	12/24/2014
Landuse Restriction	12/24/2014
Monitoring Plan	12/24/2014
Site Management Plan	12/24/2014
O&M Plan	12/24/2014
IC/EC Plan	12/24/2014
Air Sparging/Soil Vapor Extraction	12/24/2014
Environmental Easement	12/24/2014

CROSS REFERENCES:

IDENTIFIER	SOURCE
03/30/2001	Agreement/Consent Order Date
07/03/1997	Agreement/Consent Order Date
07/22/2011	Agreement/Consent Order Date
2014000423306	County Recording Identifier
w2−0792−11−04	Agreement/Consent Order Number
w2−0792−97−05	Agreement/Consent Order Number
w2−0792−98−07	Agreement/Consent Order Number

SITE OWNER/OPERATOR/REPOSITORY INFORMATION:

CURRENT OWNER(S):

NAME: 2350 Fifth Avenue Corporation
Joseph Karten
ADDRESS: 309 East 94th Streeet
Ground Floor
New York, NY 10128

Owner Type: PRP − Class 2 HazSubs

OWNER(S) DURING DISPOSAL:

OPERATOR(S) DURING DISPOSAL:

APPLICANT REQUESTOR(S):

DOCUMENT REPOSITORY(S):

NAME: NYSDEC Region 2 Office
ADDRESS: 47−40 21St Street
Long Island City, NY 11101

Repository Typ: Other State Agency (State Government)

NAME: New York Public Library
ADDRESS: Countee Cullen Branch
104 West 136 Street
New York, NY 10030

HAZARDOUS WASTE DISPOSAL PERIOD: from 1970 to 1994

SITE DESCRIPTION:

Location: The site is located on the west side of Fifth Avenue between 141st Street and 142nd Street in the borough of Manhattan, City and State of New York.

Site Features: The site is approximately 1.54 acres, and is entirely occupied by a building. The building is comprised of three connected sections: a two−story section along Fifth Avenue, a three−story section in the center, and a one−story section to the west. Surrounding the site are high−rise residential buildings to the west, south, and southeast of the site. The Harlem River Drive is to the east/northeast, and a National Guard Armory occupies the block immediately to the north.

Current Zoning/Use: The site is owned by 2350 Fifth Avenue Corporation. It is zoned for light manufacturing (M1−1). The Harlem River is located approximately 200 to 300 feet east of the site. Following completion of remediation, the site is currently occupied by a self−storage facility and a charter school.

Past Use of the Site: Based on historical Sanborn fire insurance maps, the site and the surrounding area were in the process of being filled in between 1860 and 1893, and as of 1909 it was mostly vacant or occupied by a contractor’s yard. The existing building was originally constructed as a Borden Company ice cream factory: the three−story section in 1923; the two−story section in 1932; and the one−story section in 1950. The floor slab in the one−story (western) section included layers of insulating materials for refrigeration. The area surrounding the site was mostly occupied by garages, auto repair shops, and light manufacturing in the 1930s through the 1950s, with the exception of the block directly north of the site, where the Fifth Avenue Armory was constructed between 1921 and 1933. The residential development, which occupies the area to the south and west of the site, was constructed between 1957 and 1959. From 1970 to 1994 the site was occupied by an industrial laundry and dry cleaning operation which utilized tetrachloroethylene (PCE or "perc") as a cleaning solvent. The dry cleaning operation utilized both "first−generation" and "second−generation" dry−cleaning machines. The majority of PCE released was associated with the first generation machine use, which involved more handling of PCE than the later machines. The dry cleaning facility operated as registered hazardous waste handler with U.S. Environmental Protection Agency (EPA), ID number NYD071026173.

Between 1995 and 1996, most of the ground floor of the building, with the exception of the far western portion, was renovated for use as a New York City public school. The central and eastern portions of the building were occupied by P.S. 141 for a period in the fall of 1997, and were later used by a church for services, offices, and classes. The church vacated the building in December 2004. The remainder of the central and western portion of the building was renovated in 2001 for use as a self storage facility, and in 2006 the self storage facility expanded into the former school portion of the building. Currently the site is use for self storage facility and for art studio space.

Site Geology and Hydrogeology: Groundwater in the vicinity of the site is divided into two apparently semi−confined aquifers. The presence of a clay layer acts as an aquitard/aquiclude separating the aquifer into a shallow aquifer above the clay and deeper aquifer below the clay. The groundwater surface in the shallow aquifer is irregular and approximately six to ten feet below grade. Measurements of groundwater elevation indicated varying horizontal flow directions: generally northward towards West 142nd Street and eastward along 142nd Street towards the Harlem River.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
TETRACHLOROETHYLENE (PCE)	UNKNOWN
BENZO(A)PYRENE	UNKNOWN
tetrachloroethene (PCE)	UNKNOWN
CHLORINATED SOLVENTS	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Post−Remediation

Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were tetrachloroethene (PCE) and its breakdown products [trichloroethene (TCE), cis−1,2−dichloroethene (cis−1,2−DCE), trans−1,2−dichloroethene (trans−1,2−DCE),

vinyl chloride (VC)] in soil, groundwater and soil vapor and sub−slab insulation material. Remedial actions have successfully achieved soil cleanup objectives for restricted residential use. Residual contamination in soil, groundwater, soil vapor and sub−slab insulation material is being managed under the Site Management Plan.

ASSESSMENT OF HEALTH PROBLEMS:
People are not drinking the contaminated groundwater because the area is served by a public water supply that is not contaminated by the site. Direct contact with contaminated soil is unlikely since it is located under pavement and the on−site building. Volatile organic compounds in the groundwater and/or soil may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Site−related contaminants were historically found in the indoor air of the on−site building at concentrations exceeding NYSDOH's air guidelines. To minimize the potential for the inhalation of site−related contaminants, a sub−slab depressurization system was installed beneath the building. Environmental sampling indicates soil vapor intrusion is not a concern for off−site buildings.

PROJECT COMPLETIONS:
Operable Unit 00 − Site Management

PROJECT	DESCRIPTION	END DATE	STATUS
Certificate of Completion		01/16/2015	Actual

Operable Unit 01 − REMEDIAL PROGRAM

PROJECT	DESCRIPTION	END DATE	STATUS
Site Characterization		06/01/1998	Actual
Remedial Investigation		03/29/2011	Actual
Remedial Design		09/25/2013	Actual
Remedial Action		01/16/2015	Actual

Operable Unit 01A − IRM−Soil Vapor Extraction

PROJECT	DESCRIPTION	END DATE	STATUS
Remedial Design		02/05/2002	Actual

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air−X	Surface Water−	Groundwater−X	Soil−X	Sediment−
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater−X	Drinking Water−	Surface Water−	Air−X	

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE: Fill mixed with organic−rich silt.
GROUNDWATER DEPTH: Range: 5 to 10 feet.

LEGAL ACTION:	Type: Consent Order		State−X	Federal−
STATUS:	Negotiation in Progress−		Order Signed−X	
REMEDIAL ACTION:	Proposed−	Under Design−	In Progress−X	Completed−
NATURE OF ACTION:	IRM−Removal. IRM−SVE system. IRM−Floor sealing.			

Map Identification Number 3 **2568 PARK** **Facility Id: 203050**
2568 PARK AVENUE BRONX, NY 10451 TT−Id: 120A−0007−262

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE (1)
Approximate distance from property: 2772 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 203050
CLASSIFICATION CODE: N REGION: 2 DEC ID: 437190
CLASSIFICATION CODE DESCRIPTION:
No further action

NAME OF SITE: 2568 Park
STREET ADDRESS: 2568 Park Avenue TOWN: New York City
CITY: Bronx ZIP: 10451 COUNTY: Bronx

ESTIMATED SIZE: 0.255 Acre
SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond−

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:

IDENTIFIER	SOURCE
The following cross reference(s) have been deleted from the registry. Data reflects previous information.	
203051	HW Site ID
203052	HW Site ID
28	Senate District
84	Assembly District
C303151	Agreement/Consent Order Number

SITE OWNER/OPERATOR/REPOSITORY INFORMATION:
CURRENT OWNER(S):
NAME: South Bronx Overall Economic Development Corporation (SoBRO)
Lourdes Zapata

ADDRESS: 555 Bergen Avenue
Bronx, NY 10455

OWNER(S) DURING DISPOSAL:

OPERATOR(S) DURING DISPOSAL:

APPLICANT REQUESTOR(S):
NAME: South Bronx Overall Economic Development Corporation (SoBRO)
Lourdes Zapata
ADDRESS: 555 Bergen Avenue
Bronx, NY 10455

HAZARDOUS WASTE DISPOSAL PERIOD:

SITE DESCRIPTION:
Part of Port Morris Zone 1 BOA. DEC #BOA00032 DOS #10BOA002 Site Investigation could not be funded under BOA since property owner would not allow access. No environmental data available for this site.

CONFIRMED HAZARDOUS WASTE DISPOSED:
None reported

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
None provided

ASSESSMENT OF HEALTH PROBLEMS:
None provided

PROJECT COMPLETIONS:
None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air−	Surface Water−	Groundwater−	Soil−	Sediment−
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater−	Drinking Water−	Surface Water−	Air−	

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State−	Federal−
STATUS:	Negotiation in Progress−		Order Signed−	
REMEDIAL ACTION:	Proposed−	Under Design−	In Progress−	Completed−
NATURE OF ACTION:				

Map Identification Number 4 **FILM STORAGE WAREHOUSE SITE** **Facility Id: 231009**
203−209 WEST 146TH STREET NEW YORK, NY 10039 TT−Id: 120A−0007−287

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 3122 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 231009
CLASSIFICATION CODE: N REGION: 2 DEC ID: 57156
CLASSIFICATION CODE DESCRIPTION:
No further action

NAME OF SITE: Film Storage Warehouse Site
STREET ADDRESS: 203−209 West 146th Street TOWN: New York City
CITY: New York ZIP: 10039 COUNTY: New York

ESTIMATED SIZE:

SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond−

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:
None reported

SITE OWNER/OPERATOR/REPOSITORY INFORMATION:
None reported

HAZARDOUS WASTE DISPOSAL PERIOD:

SITE DESCRIPTION:
The former Film Storage Warehouse is approximately 0.25 acres and is located at 203−209 West 146th St. in Manhattan. The property is located on the north site of West 146th St. between Adam Clayton Powell Jr. Boulevard and Fredrick Douglass

Boulevard. The site is bounded on the north and west by residential buildings, and on the east by commercial buildings with residences on the upper floors. The former warehouse site has been unoccupied for over 50 years and is currently vacant. A site investigation was funded by EPA as a targeted site assessment. A Site Investigation Report was approved in November 2004. The site did not qualify for addition to the Registry of Inactive Hazardous Waste Disposal sites.

CONFIRMED HAZARDOUS WASTE DISPOSED:
None reported

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
Several contaminants were detected in soils including semivolatile compounds, (primarily polyaromatic hydrocarbons)and several metals. Most of the soil contamination appears to be related to historic fill material. The building interior also has debris piles containing asbestos and lead (from insulation and lead paint, respectively). Soil vapor beneath the building contains volatile organic compounds above expected background concentrations.

ASSESSMENT OF HEALTH PROBLEMS:
None provided

PROJECT COMPLETIONS:
Operable Unit 01 − Targeted Site Assessment

PROJECT	DESCRIPTION	END DATE	STATUS
Site Characterization		11/30/2004	Actual

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air−	Surface Water−	Groundwater−	Soil−	Sediment−
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater−	Drinking Water−	Surface Water−	Air−	

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State−	Federal−
STATUS:	Negotiation in Progress−		Order Signed−	
REMEDIAL ACTION:	Proposed−	Under Design−	In Progress−	Completed−
NATURE OF ACTION:				

Map Identification Number 5 **RIDER AVENUE GAS STATION** **Facility Id: 203051**
250 EAST 138TH STREET BRONX, NY 10451 TT−Id: 120A−0007−263

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 3320 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 203051
CLASSIFICATION CODE: N REGION: 2 DEC ID: 437424
CLASSIFICATION CODE DESCRIPTION:
No further action

NAME OF SITE: Rider Avenue Gas Station
STREET ADDRESS: 250 East 138th Street TOWN: New York City
CITY: Bronx ZIP: 10451 COUNTY: Bronx

ESTIMATED SIZE: 0.258 Acre

SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond−

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:

IDENTIFIER	SOURCE
203050	HW Site ID
203052	HW Site ID
SAC C303151	Agreement/Consent Order Number

The following cross reference(s) have been deleted from the registry. Data reflects previous information.

SITE OWNER/OPERATOR/REPOSITORY INFORMATION:
CURRENT OWNER(S):
NAME: South Bronx Overall Economic Development Corporation (SoBRO)
Lourdes Zapata
ADDRESS: 555 Bergen Avenue
Bronx, NY 10455

OWNER(S) DURING DISPOSAL:

OPERATOR(S) DURING DISPOSAL:

APPLICANT REQUESTOR(S):
NAME: South Bronx Overall Economic Development Corporation (SoBRO)
Lourdes Zapata
ADDRESS: 555 Bergen Avenue
Bronx, NY 10455

HAZARDOUS WASTE DISPOSAL PERIOD:

SITE DESCRIPTION:
Part of Port Morris Zone 1 BOA. DEC #BOA00032 DOS #10BOA002 Site Investigation could not be funded under BOA since there is an ongoing State enforment action.

CONFIRMED HAZARDOUS WASTE DISPOSED:
None reported

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
None provided

ASSESSMENT OF HEALTH PROBLEMS:
None provided

PROJECT COMPLETIONS:
None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air−	Surface Water−	Groundwater−	Soil−	Sediment−
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater−	Drinking Water−	Surface Water−	Air−	

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State−	Federal−
STATUS:	Negotiation in Progress−		Order Signed−	
REMEDIAL ACTION:	Proposed−	Under Design−	In Progress−	Completed−
NATURE OF ACTION:				

Map Identification Number 6 **FORMER MELROSE AVENUE DRY CLEANER** **Facility Id: 203009**
753 MELROSE AVENUE BRONX, NY 10451 TT−Id: 120A−0007−245

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 3531 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 203009
CLASSIFICATION CODE: 02 REGION: 2 DEC ID: 57014
CLASSIFICATION CODE DESCRIPTION:
Significant threat to the public health or environment − action required.

NAME OF SITE: Former Melrose Avenue Dry Cleaner
STREET ADDRESS: 753 Melrose Avenue TOWN: New York City
CITY: Bronx ZIP: 10451 COUNTY: Bronx

ESTIMATED SIZE: 0.066 Acre

SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond−

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:

IDENTIFIER	SOURCE
B00095	ERP Site ID
E203009	ERP Site ID

SITE OWNER/OPERATOR/REPOSITORY INFORMATION:
CURRENT OWNER(S):
NAME: NYC Dept. of Housing Preservation & Development Owner Type: Local Government
Ms.Vicki Been
ADDRESS: 100 Gold Street
New York, NY 10038

OWNER(S) DURING DISPOSAL:

OPERATOR(S) DURING DISPOSAL:

APPLICANT REQUESTOR(S):

DOCUMENT REPOSITORY(S):

NAME: Bronx Community Board 1 Repository Typ: Local Government
Cedric Loftin
ADDRESS: 3024 Third Avenue
Bronx, NY 10455

NAME: New York Public Library − Melrose Branch
Sadeqwa Atkinson
ADDRESS: 910 Morris Avenue
Bronx, NY 10451

NAME: Nos Quedamos, Inc.
Anthony T. Winn
ADDRESS: 754 Melrose Avenue
Bronx, NY 10451

HAZARDOUS WASTE DISPOSAL PERIOD:

SITE DESCRIPTION:

Location: The site is located in the Melrose section of Bronx County (Borough of The Bronx, New York City). The site is located on the west side of Melrose Avenue between East 156th and East 157th Streets. Site Features: The site is a vacant lot covered with vegetation, and is surrounded with a chain−link fence. The site is bordered to the north by a community garden, to the east by Melrose Avenue, to the south by a 6−story apartment building, and to the west by a school (PS 29). Current Zoning and Land Use: The site is zoned for residential. There are no buildings on the site, and the property is not currently in use. Past Use of the Site: The Department began a Site Characterization in this area during the Fall of 2003 based on results obtained from a petroleum spill investigation at the FDNY Engine 71/Ladder 55 property located at 720 Melrose Avenue, which indicated elevated levels of tetrachloroethene (PCE), trichloroethene (TCE), and cis−1,2−dichloroethene (DCE) in groundwater. Based on the field sampling program (which was conducted in several phases, and was completed in the Spring of 2007), and a review of available historical information, the site was identified as a primary source of the area−wide chlorinated solvent contamination. According to Sanborn fire insurance maps and an interview with a long−time resident, this site was occupied by a dry cleaner during the 1950’s. The maps show that the solvent tanks were located in the rear of the building. Since the time of that former facility’s operation, the site has been abandoned. Site Geology and Hydrogeology: The site is underlain by a fill unit (5−7’ thick), a fine−medium sand unit with some silt (5−25’ thick), and bedrock (11−28’ below grade). Groundwater is approximately 16−19’ below ground surface in the vicinity of the site. In some areas, the groundwater is below the surface of bedrock). Groundwater on−site flows SE towards Melrose Avenue, and then to the south towards the East River (~7,000’ south of the site) along a former stream bed.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY

TETRACHLOROETHYLENE (PCE)	UNKNOWN
tetrachloroethene (PCE)	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
Nature and Extent of Contamination: − Groundwater The primary contaminant of concern at the site is tetrachloroethene (PCE). PCE has been found in shallow groundwater at concentrations up to 6,200 ppb, well above the Part 703.5 class GA standard of 5 ppb. Trichloroethene (up to 500 ppb), and cis−1,2−dichloroethene (up to 3,500 ppb) have also been found in shallow groundwater above their respective Part 703.5 class GA standards (5 ppb each). The plume of PCE−contaminated groundwater has migrated south at least 2 blocks under a residential area. − Soil PCE has been found in on−site soils up to 2.2 ppm, slightly above the soil cleanup objective for unrestricted use (1.3 ppm). − Soil Vapor Concentrations of PCE in soil vapor have been found up to 5,810 ug/m^3. Significant Threat: The site poses a significant environmental threat based on the property's past use as a dry cleaner, which contaminated groundwater beneath the site with PCE at levels several orders of magnitude above standards and a significant threat to public health due to the concentrations of PCE detected in groundwater and soil, in conjunction with the proximity of occupied structures.

ASSESSMENT OF HEALTH PROBLEMS:
The site is fenced, however, site access is still possible and persons who enter the site could potentially contact contaminants in the soil by walking on soil, digging or otherwise disturbing the soil. Contaminated groundwater at the site is not used for drinking or other purposes and the site is served by a public water supply that obtains water from a different source not affected by this contamination. Volatile organic compounds in the groundwater and/or soil may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Inhalation of site contaminants in indoor air due to soil vapor intrusion does not represent a concern for the site in its current condition because there are no on−site buildings. However, the potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on−site development and occupancy. In addition, vapor sampling indicates soil vapor intrusion is a concern for off−site buildings.

PROJECT COMPLETIONS:
Operable Unit 01 − Remedial Program

PROJECT	DESCRIPTION	END DATE	STATUS
Site Characterization		07/19/2007	Actual

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air−	Surface Water−	Groundwater−	Soil−	Sediment−
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater−	Drinking Water−	Surface Water−	Air−	

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State−	Federal−
STATUS:	Negotiation in Progress−		Order Signed−	
REMEDIAL ACTION:	Proposed−	Under Design−	In Progress−	Completed−

NATURE OF ACTION:

Map Identification Number 7 **VISTA 1** **Facility Id: 203052**
2401 THIRD AVENUE BRONX, NY 10451 TT−Id: 120A−0007−710

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 4387 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: 2401 3RD AVE
Revised zip code: NO CHANGE

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 203052
CLASSIFICATION CODE: N REGION: 2 DEC ID: 437428
CLASSIFICATION CODE DESCRIPTION:
No further action

NAME OF SITE: Vista 1
STREET ADDRESS: 2401 Third Avenue TOWN: New York City
CITY: Bronx ZIP: 10451 COUNTY: Bronx

ESTIMATED SIZE: 1.538 Acres

SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond−

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:

IDENTIFIER	SOURCE

The following cross reference(s) have been deleted from the registry. Data reflects previous information.

203050	HW Site ID
203051	HW Site ID

SITE OWNER/OPERATOR/REPOSITORY INFORMATION:
CURRENT OWNER(S):

NAME: South Bronx Overall Economic Development Corporation (SoBRO)
Lourdes Zapata
ADDRESS: 555 Bergen Avenue
Bronx, NY 14055

OWNER(S) DURING DISPOSAL:

OPERATOR(S) DURING DISPOSAL:

APPLICANT REQUESTOR(S):
NAME: South Bronx Overall Economic Development Corporation (SoBRO)
Lourdes Zapata
ADDRESS: 555 Bergen Avenue
Bronx, NY 14055

HAZARDOUS WASTE DISPOSAL PERIOD:

SITE DESCRIPTION:
Part of Port Morris Zone 1 BOA. DEC #BOA00032 DOS #10BOA002 Site Investigation could not be funded under BOA since property owner would not allow access. No environmental data available for this site.

CONFIRMED HAZARDOUS WASTE DISPOSED:
None reported

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
None provided

ASSESSMENT OF HEALTH PROBLEMS:
None provided

PROJECT COMPLETIONS:
None reported

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air−	Surface Water−	Groundwater−	Soil−	Sediment−
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater−	Drinking Water−	Surface Water−	Air−	

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION:	Type:	State−	Federal−
STATUS:	Negotiation in Progress−	Order Signed−	

REMEDIAL ACTION: Proposed− Under Design− In Progress− Completed−
NATURE OF ACTION:

Map Identification Number 8 **BRONXCHESTER URA SITE 1A** **Facility Id: 203043**
BROOK AVENUE AT EAST 156TH STREET BRONX, NY 10455 TT−Id: 120A−0008−500

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 4465 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: 700 BROOK AVENUE
Revised zip code: NO CHANGE

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

SITE CODE: 203043
CLASSIFICATION CODE: N REGION: 2 DEC ID: 411532
CLASSIFICATION CODE DESCRIPTION:
No further action

NAME OF SITE: Bronxchester URA Site 1a
STREET ADDRESS: Brook Avenue at East 156th Street TOWN: New York City
CITY: Bronx ZIP: 10455 COUNTY: Bronx

ESTIMATED SIZE:

SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond−

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:

IDENTIFIER	SOURCE

The following cross reference(s) have been deleted from the registry. Data reflects previous information.

224117	HW Site ID
C203043	BCP Site ID

SITE OWNER/OPERATOR/REPOSITORY INFORMATION:

None reported

HAZARDOUS WASTE DISPOSAL PERIOD:

SITE DESCRIPTION:
The 1.09 acre site is located at 700 Brook Avenue, at the southeast corner of the intersection of Brook Avenue and East 156th Street. The site is bounded on the east by an inactive railroad right−of−way and to the south by an athletic field. The parcel is designated as Block 2359, part of lot 3. The site was historically occupied by a gas station. A Preliminary Site Assessment was conducted in 2006 which included collection and analysis of soil and groundwater data. Results indicated presence of petroleum contamination. Site was remediated under Brownfield Cleanup Program − see site no. C203043.

CONFIRMED HAZARDOUS WASTE DISPOSED:
None reported

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
None provided

ASSESSMENT OF HEALTH PROBLEMS:
None provided

PROJECT COMPLETIONS:
Operable Unit 01 − Remedial Program

PROJECT	DESCRIPTION	END DATE	STATUS
Site Characterization		08/30/2006	Actual

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air−	Surface Water−	Groundwater−	Soil−	Sediment−
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater−	Drinking Water−	Surface Water−	Air−	

GEOTECHNICAL INFORMATION:
SOIL/ROCK TYPE:
GROUNDWATER DEPTH:

LEGAL ACTION:	Type:		State−	Federal−
STATUS:	Negotiation in Progress−		Order Signed−	
REMEDIAL ACTION:	Proposed−	Under Design−	In Progress−	Completed−
NATURE OF ACTION:				

NO RCRA CORRECTIVE ACTION SITES IDENTIFIED WITHIN 1 MILE SEARCH RADIUS

NO CERCLIS SUPERFUND SITES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

BROWNFIELDS SITES (STATE & LOCAL) IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 9 **GATEWAY CENTER AT BRONX TERMINAL MARKET, EASTERN** **Facility Id: C203015**
EXTERIOR STREET, BRONX, NY 10451 TT−Id: 320A−0001−431

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE − LARGE SITE
Approximate distance from property: 811 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Brownfield Program: Brownfield Cleanup Program

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
BROWNFIELD CLEANUP PROGRAM

SITE CODE: C203015
CLASSIFICATION CODE: C REGION: 2 DEC ID: 58447
CLASSIFICATION CODE DESCRIPTION:
Remediation Complete (formerly D2). Sites may still require some degree of site management associated with either operation, maintenance, and monitoring or with institutional/engineering controls (IC/ECs).

NAME OF SITE: Gateway Center at Bronx Terminal Market, Eastern
STREET ADDRESS: Exterior Street TOWN: New York City
CITY: Bronx ZIP: 10451 COUNTY: Bronx

ESTIMATED SIZE: 16.51 Acres
SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond−

INSTITUTIONAL/ENGINEERING CONTROLS:

CONTROL:	IN−PLACE DATE:
Ground Water Use Restriction	04/09/2009
Vapor Mitigation	04/09/2009
Soil Management Plan	04/09/2009
Cover System	04/09/2009
Landuse Restriction	04/09/2009

Building Use Restriction	04/09/2009
Monitoring Plan	04/09/2009
Site Management Plan	04/09/2009
O&M Plan	04/09/2009
IC/EC Plan	04/09/2009
Environmental Easement	04/09/2009

CROSS REFERENCES:

IDENTIFIER	SOURCE
2009000123801	County Recording Identifier
W2−1032−04−11	Agreement/Consent Order Number

SITE OWNER/OPERATOR/REPOSITORY INFORMATION:

CURRENT OWNER(S):

NAME: BTM DEVELOPMENT PARTNERS, LLC
Glenn Goldstein
ADDRESS: 60 Columbus Circle, 19th Floor
New York, NY 10023

OWNER(S) DURING DISPOSAL:

OPERATOR(S) DURING DISPOSAL:

NAME: BTM DEVELOPMENT PARTNERS, LLC c/o Related Management Operator Type: Corporate or Commercial
Edward T. Hilla
ADDRESS: Gateway Center at Bronx Terminal Market
610 Gateway Center Blvd, Suite 100B
Bronx, NY 10451

APPLICANT REQUESTOR(S):

NAME: BTM Development Partners LLC
Glenn Goldstein
ADDRESS: 60 Columbus Circle, 19th Floor
New York, NY 10023

HAZARDOUS WASTE DISPOSAL PERIOD:

SITE DESCRIPTION:

Location: The Site is located in the West Haven neighborhood of the Bronx, New York and is identified as Tax Block 2356, Lots 20 and 25, and Tax Block 2357, Lots 35, 40, and 45 on the New York City Tax Map. The Site is roughly bounded by East 149th Street to the south, the Major Deegan Expressway ramp (just south of the Macomb’s Dam Bridge) to the north, Exterior Street (with the Major Deegan elevated expressway above) to the west, and River Avenue and the MTA Metro North railroad to the east.

Site Features: The Site is a 16.5−acre parcel that is part of a larger 34−acre industrial and commercial use area known as the Bronx Terminal Market (BTM). Completed development of the Gateway Center at Bronx Terminal Market includes approximately 957,000

gross square feet of retail establishments and 2,600 parking spaces in a multi−level parking garage and at−grade parking.

Current Zoning and Land Use: The Site is zoned for commercial use and is occupied by the Gateway Center at Bronx Terminal Market, a 957,000 square foot retail center with parking. Past Uses: Industrial development of the area began in 1841 with the construction of elevated railroads between Manhattan and the Bronx. In1851, as part of the installation of the Harlem River Line, a large portion of the present site was filled, creating the current shoreline. Between 1891 and 1897 five slips and piers were constructed along the new shoreline to the west of the Site, and the waterfront block became an industrial area occupied by coal storage yards, and asphalt paving and oil storage companies. The pre−development site structures consisting of the Bronx Terminal Market buildings and the Bronx Men’s House of Detention (BHOD) were constructed between the 1920s and the mid 1970s. Previously, the Site had been used for industrial and commercial operations including rail yards; toy, photographic mounts and refrigerator manufacturing; a lumber yard; a saw mill; a New York Police Department (NYPD) motorcycle storage and/or maintenance facility; and a New York City Department of Sanitation (NYCDOS) facility. Current property use adjacent to and north, east and south of to the Site, includes gasoline stations, garages, and maintenance facilities with underground gasoline and oil tanks, and a Con Edison auto and machine repair garage.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
LEAD	UNKNOWN
MERCURY	UNKNOWN
NAPHTHALENE	UNKNOWN
PHENOL	UNKNOWN
TETRACHLOROETHYLENE (PCE)	UNKNOWN
COPPER	UNKNOWN
ZINC	UNKNOWN
ARSENIC	UNKNOWN
METHANE	UNKNOWN
BENZO(A)PYRENE	UNKNOWN
tetrachloroethene (PCE)	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Nature and Extent of Contamination: Prior to remediation, on−Site soil was contaminated with petroleum−related contaminants and historic fill containing elevated concentrations of metals (primarily lead, mercury and arsenic) and semi−volatile organic compounds (SVOCs) including polycyclic aromatic hydrocarbons (PAHs). Groundwater was minimally contaminated with volatile organic compounds (VOCs), SVOCs, and metals in groundwater. Limited quantities of elevated methane and VOCs were present in soil gas. Based on the results of post−remediation sub−slab soil vapor sampling, NYSDEC and NYSDOH concurred that the sub−slab depressurization systems (SSDS) will operate passively.

Residual contamination in soil and groundwater is being managed under a Site Management Plan.

ASSESSMENT OF HEALTH PROBLEMS:

Coming in contact with residual on−site contaminated soil is not likely since the site is covered with building foundations or pavement. Exposure to groundwater contamination is not expected since the area is served by public water. Inhalation via soil vapor intrusion has been minimized through the installation of vapor mitigation technologies (sub−slab depressurization systems, vapor barriers and positive pressurization) in on−site buildings.

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PROJECT COMPLETIONS:
  Operable Unit 00 − Site Management
    PROJECT                                DESCRIPTION                                          END DATE   STATUS
    Certificate of Completion                                                                   05/19/2009 Actual

  Operable Unit 01 − Remedial Program
    PROJECT                                DESCRIPTION                                          END DATE   STATUS
    Remedial Design                                                                             05/11/2006 Actual
    Remedial Investigation                                                                      05/11/2006 Actual
    Remedial Action                        Gateway Center at Bronx Terminal Market − Eastern    05/19/2009 Actual
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Map Identification Number 10 **110 EAST 149TH STREET** **Facility Id: 15CVCP114X**
110 EAST 149TH STREET, BRONX, NY TT−Id: 330A−0000−045
VCP Project Id: 15CVCP114X

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 814 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street:
Revised zip code:

Brownfield Program: NYC Voluntary Cleanup Program

Class: Active (A)

Parcel(s): Block 2351 Lot(s) 25

Click here for detailed site information. Copy and paste 15CVCP114X in the search box, click the green search button, then click the Project ID # to see downloadable site documents.

Map Identification Number 11 **477 GERARD AVENUE** **Facility Id: C203071**
477 GERARD AVENUE, BRONX, NY 10451 TT−Id: 320A−0004−165

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1021 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Brownfield Program: Brownfield Cleanup Program

SITE CODE: C203071
CLASSIFICATION CODE: A REGION: 2 DEC ID: 493435
CLASSIFICATION CODE DESCRIPTION:
Work is underway and not yet complete.

NAME OF SITE: 477 Gerard Avenue
STREET ADDRESS: 477 Gerard Avenue TOWN: New York City
CITY: Bronx ZIP: 10451 COUNTY: Bronx

ESTIMATED SIZE: 0.2 Acre

SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond−

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:

IDENTIFIER	SOURCE
1400009	Spill No.

SITE OWNER/OPERATOR/REPOSITORY INFORMATION:
CURRENT OWNER(S):
NAME: Jai Ganesh Realty, LLC Owner Type: Innocent Owner NonRegistry−HazSubs
Harshad Patel
ADDRESS: 81−43 262nd Street
Floral Park, NY 11004

OWNER(S) DURING DISPOSAL:

OPERATOR(S) DURING DISPOSAL:

APPLICANT REQUESTOR(S):
NAME: Jai Ganesh Realty, LLC
Harshad Patel
ADDRESS: 81−43 262nd Street
Floral Park, NY 11004

DOCUMENT REPOSITORY(S):
NAME: New York Public Library − Mott Haven Library
Ms. Jeanine Thomas−Cross
ADDRESS: 321 East 140th Street at Alexander Avenue
Bronx, NY 10454

NAME: Bronx Community Board One
Cedric L. Loftin

ADDRESS: 3024 Third Avenue
Bronx, NY 10455

HAZARDOUS WASTE DISPOSAL PERIOD:

SITE DESCRIPTION:
Location: The site is located at 477 Gerard Avenue, Bronx, NY on the northwest corner of the intersection of East 146th Street and Gerard Avenue. The site is bounded by the streets above to the east and south, a newly constructed hotel to the west, and a residential building to the north. The site is approximately 0.20 acres in size.

Site Features: The site is currently vacant, cleared, and surrounded by a fence. Current Zoning and Land Use: The site is currently vacant and zoned M1−4/R8A as a special mixed−use district meant to enhance the vitality of existing neighborhoods with mixed residential and industrial uses.

Past Use of the Site: The site was developed with commercial and industrial uses since at least 1908. Specific past uses include a lumberyard, a sign frame company, auto junkyard, and auto repair facility. Underground storage tanks (USTs) have been reported at the site on historical Sanborn maps, but none were found during the most recent investigation. Geology and Hydrogeology: The subsurface consists of a 15 to 16−foot deep historic fill layer. Beneath the fill layer, the site consists of unconsolidated sand and gravel layers to the depth of bedrock, which is approximately 300 feet below ground surface (bgs). Regional groundwater flows to the southwest towards the Harlem River. Depth to groundwater ranges from 14.5 to 19.5 feet below ground surface (bgs).

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
BENZO(B)FLUORANTHENE	UNKNOWN
BARIUM	UNKNOWN
POLYCHLORINATED BIPHENYLS (PCB)	UNKNOWN
SODIUM	UNKNOWN
ARSENIC	UNKNOWN
LEAD	UNKNOWN
MANGANESE	UNKNOWN
BENZ(A)ANTHRACENE	UNKNOWN
CADMIUM	UNKNOWN
BENZO(A)PYRENE	UNKNOWN
DIBENZ[A,H]ANTHRACENE	UNKNOWN
trichloroethene (TCE)	UNKNOWN
1,2,4−trimethylbenzene	UNKNOWN
cymene	UNKNOWN
IRON	UNKNOWN
COPPER	UNKNOWN
MAGNESIUM	UNKNOWN
CHROMIUM	UNKNOWN
BENZO(A)ANTHRACENE	UNKNOWN
nickel	UNKNOWN
mercury	UNKNOWN

1,1,1−trichloroethane	UNKNOWN
tetrachloroethene (PCE)	UNKNOWN
indeno(1,2,3−CD)pyrene	UNKNOWN
zinc	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Soil and groundwater has been analyzed for volatile organic compounds (VOCs), semi−volatile organic compounds (SVOCs), pesticides, poly−chlorinated biphenyls (PCBs), and metals. Soil vapor has been analyzed for VOCs. Soil: The primary contaminants found in site soils are polycyclic aromatic hydrocarbons (PAHs) and metals typically found in historic fill, which is generally present in the top 15−16 feet of the site, and PCBs. PAHs were detected in soils up to 16 feet below ground surface (bgs) during the RI, including but not limited to, benzo(a)anthracene at 1.8 parts per million (ppm) (UUSCO is 1 ppm) and benzo(b)fluoranthene at 2.2 ppm (UUSCO is 1.0 ppm). Metals were found at depths up to 20 feet bgs, with the highest concentrations residing within the upper 10 feet, including arsenic at concentrations up to 90 ppm (UUSCO is 13 ppm), barium up to 560 ppm (UUSCO is 350 ppm), cadmium up to 22 ppm (UUSCO is 2.5 ppm), copper up to 800 ppm (UUSCO is 50 ppm), lead up to 17,000 ppm (UUSCO is 63 ppm), mercury up to 1.4 ppm (UUSCO is 0.18 ppm), nickel up to 82 ppm (UUSCO is 30 ppm), and zinc up to 970 ppm (UUSCO is 109 ppm). During the Phase II investigation PCBs were found in a few locations up to 15.35 ppm. During the RI, PCBs were detected at two locations up to 0.523 ppm (UUSCO is 0.1 ppm). Like the PAHs and metals, PCBs appear to be coincident with the historic fill. Limited petroleum−related VOCs were detected marginally above UUSCOs during the Phase II investigation, but were not detected during the RI. Site−related soil contamination is not expected to be present off−site, but historic fill may be present off−site. Groundwater: The only VOCs detected in groundwater were p−isopropyltoluene at 25 parts per billion (ppb) (standard is 5 ppb), and 1,2,4−trimethylbenzene at 18 ppb (standard is 5 ppb). The contaminants found in groundwater may be from site−related activities or an off−site source, but are typical of background conditions in NYC. Two SVOCs were detected above standards, criteria or guidance values (SCGs) as follows: benzo(a)anthracene at concentrations up to 0.04 ppb (guidance value is 0.002 ppb) and one detection of benzo(a)pyrene at 0.07 ppb (standard is non−detect). No PCBs, pesticides or metals of concern were detected in groundwater over SCGs. It’s unclear whether contaminated groundwater extends off−site; however, since the concentrations are low and typical of NYC background concentrations, no off−site investigation is warranted.

Soil Vapor: Several VOCs were detected in soil vapor. However, the only chlorinated VOCs detected were tetrachloroethene (PCE) at 162 micrograms per cubic meter (ug/m^3), 1,1,1−trichloroethane at 12.6 ug/m^3, and trichloroethene (TCE) at 1.28 ug/m^3. Data do not indicate off−site soil vapor intrusion is a concern for off−site buildings.

ASSESSMENT OF HEALTH PROBLEMS:

People may contact contaminants in soil or groundwater if they dig below the surface or contact contaminated groundwater. People are not drinking the contaminated groundwater because the area is served by a public water supply that obtains water from a different source not affected by this contamination. Volatile organic compounds in the soil vapor (air spaces within the soil) may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The site is currently vacant. The potential exists for the inhalation of site contaminants due to soil vapor intrusion for future on−site buildings. Sampling indicates soil vapor intrusion is not a concern for off−site buildings.

PROJECT COMPLETIONS:

Operable Unit 01 − Remedial Program

PROJECT	DESCRIPTION	END DATE	STATUS
Remedial Investigation		04/17/2018	Actual
Remedial Design		04/17/2018	Actual

Operable Unit 01A − IRM − Soil Romoval

PROJECT	DESCRIPTION	END DATE	STATUS
Remedial Design	IRM − Soil Removal	04/07/2015	Actual

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Map Identification Number 12 **CONCOURSE VILLAGE WEST APARTMENTS − SOUTH** **Facility Id: C203092**

741 CONCOURSE VILLAGE AND 702 GRAND CONCOURSE, BRONX, NY 10451 TT−Id: 320A−0004−917

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1154 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Brownfield Program: Brownfield Cleanup Program

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
BROWNFIELD CLEANUP PROGRAM

SITE CODE: C203092
CLASSIFICATION CODE: A REGION: 2 DEC ID: 548244
CLASSIFICATION CODE DESCRIPTION:
Work is underway and not yet complete.

NAME OF SITE: Concourse Village West Apartments − South
STREET ADDRESS: 741 Concourse Village and 702 Grand Concourse TOWN: New York City
CITY: Bronx ZIP: 10451 COUNTY: Bronx

ESTIMATED SIZE: 0.478 Acre

SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond−

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:
None reported

SITE OWNER/OPERATOR/REPOSITORY INFORMATION:
CURRENT OWNER(S):
NAME: 741 Concourse LLC Owner Type: Corporate or Commercial
ADDRESS: 1677 Lexington Avenue, Suite 2C

New York, NY 10029

NAME: 702 Concourse LLC Owner Type: Corporate or Commercial
ADDRESS: 1677 Lexington Avenue, Suite 2C
New York, NY 10029

OWNER(S) DURING DISPOSAL:

OPERATOR(S) DURING DISPOSAL:

APPLICANT REQUESTOR(S):
NAME: Concourse Village West Owner LLC
Guido Subotovsky
ADDRESS: 40 Fulton Street, 12th Floor
New York, NY 10038

DOCUMENT REPOSITORY(S):
NAME: Bronx Community Board 4 Repository Typ: Local Government
Kathleen Saunders
ADDRESS: 1650 Selwyn Avenue
Suite 11A
Bronx, NY 10457

NAME: Melrose Library
ADDRESS: 910 Morris Avenue
Bronx, NY 10451

HAZARDOUS WASTE DISPOSAL PERIOD:

SITE DESCRIPTION:
Location: The site is located at 741 Concourse Village West (Block 2458, Lot 49) and 702 Grand Concourse (Block 2458, Lot 13), in a commercial and residential area of the Bronx. Site Features: Lot 49 is approximately 20,586 square−feet in area and contains an asphalt parking lot. A small parking attendant booth is located along the south side of that lot. Lot 13 is approximately 13,801 square−feet in area and also includes an asphalt parking lot, as well as an elevated concrete parking platform; this lot also contains a small parking attendant booth. Current Zoning and Land Use: The current zoning designation for Lot 13 is R8/C8−3 (residential/commercial and industrial) and the zoning for Lot 49 is C8−3 (commercial and industrial). Both lots are currently utilized as attendant parking lots. Surrounding property usage is primarily commercial and residential. To the north of the site is a school, a church and residential apartment buildings. The property to the east is a KIPP Academy Elementary School; adjoining to the south is Bronx Live Poultry Corporation; and across Grand Concourse to the west is Franz Sigel Park, a New York City municipal park. Past Uses of the Site: From 1935 to 2005, uses of Lot 13 included a gasoline filling station, auto repair garages, the U−Haul Corporation, Meineke Discount Mufflers and Car Care Center, A.G. Concourse Auto Service and Reliable Parking Service, Inc. Sanborn maps from the 1930s and 1940s show four 550−gallon buried gasoline tanks on the eastern portion of the site. These tanks may still exist on−site. There was formerly a waste/used oil tank registered at the site. Spill Number 0607307 was assigned to the site in 2006 for a spill of an unspecified quantity of petroleum. The spill incident was closed in November, 2006. Lot 49 has been used as an automobile parking lot since the 1950s. Prior to the 1950s, the site was an undeveloped lot.

Site Geology and Hydrogeology: Subsurface conditions consist of historic fill soils, underlain by glacial outwash sand deposits; varved glacial lake deposits consisting predominately of silt and low plasticity clay; and bedrock. The fill typically consists of sand with varying amounts of ash, cinders and glass. Silts, clays and underlying clays consisted of predominantly fine grained varved glacial lake deposits below the fill layer. Based upon regional topographic and geologic maps, bedrock is estimated be approximately 80 ft. below ground surface (bgs). No evidence of perched water was observed. Saturated soil indicative of the regional groundwater table was observed at approximately 30−32 ft. bgs. Based upon regional topography groundwater is anticipated to flow in a south/southeasterly direction. The Harlem River is located approximately 0.4−miles west of the site.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
ethylbenzene	UNKNOWN
selenium	UNKNOWN
trichloroethene (TCE)	UNKNOWN
indeno(1,2,3−CD)pyrene	UNKNOWN
tetrachloroethene (PCE)	UNKNOWN
benzo(a)anthracene	UNKNOWN
mercury	UNKNOWN
naphthalene	UNKNOWN
benzo(b)fluoranthene	UNKNOWN
lead	UNKNOWN
benzo(a)pyrene	UNKNOWN
1,2,4−trimethylbenzene	UNKNOWN
dibenz[a,h]anthracene	UNKNOWN
barium	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Soil and groundwater were analyzed for volatile organic compounds (VOCs), semi−volatile organic compounds (SVOCs), metals, polychlorinated biphenyls (PCBs), and pesticides. Based upon investigations conducted to date, the primary contaminants of concern for the Site are petroleum−related VOCs and metal and polycyclic aromatic hydrocarbons (PAHs) typical of historic fill. Soil − Several PAHs and/or metals exceeding restricted residential use soil cleanup objectives (RRSCOs) were found at varying depths up to 16 feet, below ground surface (bgs) across the Site; although most exceedances were found in the top 8 feet or shallower (i.e., one sample some PAHs and metals exceedances in the 14−16−foot interval). Seven of the 17 sample locations showed no PAH exceedances of RRSCOs. The PAHs exceeding RRSCOs, included, but were not limited to: Benzo(a)anthracene up to 22.6 parts per million (ppm), benzo(a)pyrene up to 20.8 ppm and benzo(b)fluoranthene up to 21.3 ppm vs. RRSCO of 1 ppm for all. Metals exceedances included, but were not limited to: lead up to 2,250 ppm (RRSCO of 400 ppm), barium up to 674 ppm (RRSCO of 400 ppm) and mercury up to 2.9 ppm (RRSCO of 0.81 ppm). There were no VOCs, PCBs, or pesticide exceedances of RRSCOs. Data does not indicate any off−site impacts in soil related to this site. Site−related soil contamination does not appear to extend off−site. Groundwater − Petroleum−related VOCs were detected above groundwater standards in the northeastern half of Lot 49, including, but not limited to, the following: 1,2,4−trimethylbenzene up to 240 parts per billion (ppb), and ethyl benzene up to 150 ppb (standard is 5 ppb for these VOCs). Dissolved naturally−occurring metals (manganese, magnesium, sodium) exceeded groundwater standards on Lot 49; selenium was also detected in two samples on the Lot 49, with a maximum concentration of 48 ppb (standard is 10 ppb). Several PAHs, including but not limited to benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, indeno(1,2,3−cd−pyrene) were detected in one sample on Lot 49, with a maximum concentration of 0.232 ppb vs. the standard of

0.002 ppb for all of these parameters. Napthalene was detected at 24 ppb in one sample vs. the standard of 10 ppb. Groundwater samples on Lot 13 had a total lead concentration up to 44.4 ppb vs. the standard of 25 ppb. Low level petroleum constituents, including, but not limited to, 1,2,4−trimethylbenzene (1,2,4−TMB) were found in one sample on Lot 13. 1,2,4−TMB was found at 17 ppb vs. a standard of 5 ppb, with three other petroleum−related VOCs at less than 10 ppb (vs. standard of 5 ppb). Dissolved naturally−occurring metals (manganese, magnesium, sodium) exceeded groundwater standards on Lot 13. PCBs and pesticides were not detected in groundwater on either lot. Contaminated groundwater does not appear to extend off−site. Soil Vapor − Petroleum−related VOCs were detected in soil vapor across the Site at concentrations below 200 micrograms per cubic meter (ug/m^3). Additionally, tetrachloroethylene (PCE) was detected at 56 ug/m^3, and trichloroethylene (TCE) at 15 ug/m^3. Data do not indicate off−site soil vapor intrusion is a concern for off−site buildings. Although none were encountered during the remedial investigation underground storage tanks (USTs), fuel dispensers, underground piping or other structures associated with a source of contamination may exist.

ASSESSMENT OF HEALTH PROBLEMS:
People may contact contaminants in soil if they dig below the surface. People are not drinking the contaminated groundwater because the area is served by a public water supply that obtains water from a different source not affected by this contamination. Volatile organic compounds in soil vapor (air spaces within the soil) may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The potential exists for the inhalation of site contaminants due to soil vapor intrusion for future on−site buildings. Sampling indicates soil vapor intrusion is not a concern for off−site buildings.

PROJECT COMPLETIONS:
None reported

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Map Identification Number 13 **GERARD AVENUE AND EAST 146TH STREET SITE** **Facility Id: C203111**
417 AND 445 GERARD AVENUE, 440 MAJ WM DEEGAN BLVD, BRONX, NY 10451 TT−Id: 320A−0004−985

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE (1)
Approximate distance from property: 1184 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: 417 & 445 GERARD AVENUE & 440 MAJOR WM DEEGAN BLVD
Revised zip code: NO CHANGE

Brownfield Program: Brownfield Cleanup Program

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
BROWNFIELD CLEANUP PROGRAM

SITE CODE: C203111
CLASSIFICATION CODE: A REGION: 2 DEC ID: 567611
CLASSIFICATION CODE DESCRIPTION:
Work is underway and not yet complete.

NAME OF SITE: Gerard Avenue and East 146th Street Site
STREET ADDRESS: 417 and 445 Gerard Avenue, 440 Maj Wm Deegan Blvd TOWN: New York City
CITY: Bronx ZIP: 10451 COUNTY: Bronx

ESTIMATED SIZE: 0.72 Acre

SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond−

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:
None reported

SITE OWNER/OPERATOR/REPOSITORY INFORMATION:
CURRENT OWNER(S):
NAME: 440 Exterior Street Holdings LLC Owner Type: Corporate or Commercial
Azriel Mandel c/o Treetop Development
ADDRESS: 500 Frank W. Burr Blvd, #47
Teaneck, NJ 07666

NAME: 445 Gerard Avenue Holdings LLC Owner Type: Corporate or Commercial
Azriel Mandel c/o Treetop Development
ADDRESS: 500 Frank W. Burr Blvd, #47
Teaneck, NJ 07666

NAME: 417 Gerard Avenue Holdings LLC Owner Type: Corporate or Commercial
Azriel Mandel c/o Treetop Development
ADDRESS: 500 Frank W. Burr Blvd, #47
Teaneck, NJ 07666

OWNER(S) DURING DISPOSAL:

OPERATOR(S) DURING DISPOSAL:

APPLICANT REQUESTOR(S):
NAME: 417 Gerard Avenue Holdings LLC
Azriel Mandel
ADDRESS: 500 Frank W. Burr Boulevard #47
Teaneck, NJ 07666

DOCUMENT REPOSITORY(S):
NAME: Mott Haven Library
ADDRESS: 321 East 140th Street
Bronx, NY 10454

NAME: Bronx Community Board 1
ADDRESS: 3024 Third Avenue
Bronx, NY 10455

HAZARDOUS WASTE DISPOSAL PERIOD:

SITE DESCRIPTION:
Location: The site is located in an urban area in the Mott Haven neighborhood of the Bronx. The site is bound by East 146th Street to the north, Gerard Avenue to the east, East 144th Street to the south, and Exterior Street to the west. Site Features: The site encompasses an area of about 31,400 square feet (0.72 acres). Lot 3: one−story warehouse and parking lot; Lot 12: vacant one−story warehouse; vacant one−story warehouse with a partial cellar. Current Zoning and Land Use: The site is located within the Lower Concourse Special Mixed Use Paired District (M1−4/R8A). One of the 3 lots currently includes an active warehouse while the other 2 lots include inactive warehouses. The surrounding area is primarily commercial and industrial, but also includes residential buildings, public parks, day care centers, and schools. As part of the June 2009 Lower Concourse Rezoning, the site was E−Designated for hazardous materials, air quality, and noise.

Past Use of the Site: The site has been occupied by commercial and industrial facilities since the early 1900s. Lot 3 was used as a parking garage (1935 to 1977); Lot 12: taxi dispatch center (1930s to 1960s), auto repair shop (1960s to 1980s), and unspecified manufacturing (1990s to 2012); Lot 20: public garage (1935 to 1951), fire door manufacturer (1970s), Con Edison garage (1977 to 1993), and mirror fabrication (1993 to 2015). Site Geology and Hydrogeology: The site is underlain by fill material predominantly consisting of brown, fine− to coarse−grained sand with varying amounts of silt, gravel, concrete, brick, glass, ash, coal, slag, and debris. The fill was observed from surface grade to depths varying between about 10 and 20 feet below grade surface (bgs). Glacial till that predominantly consisted of fine− to coarse−grained sand with varying amounts of gravel and silt was observed below the fill. Decomposed bedrock was encountered at depths ranging from about 63 to 104 feet bgs. Depth−to−bedrock generally increased from east to west across the site. Groundwater was observed at depths ranging from about 15 to 20 feet bgs across the site. The inferred regional groundwater flow direction for the area surrounding the site is to the west toward the Harlem River.

CONFIRMED HAZARDOUS WASTE DISPOSED:
None reported

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
Information submitted with the BCP application regarding the environmental condition at the site are currently under review and will be revised as additional information becomes available.

ASSESSMENT OF HEALTH PROBLEMS:
Information submitted with the BCP application regarding the conditions at the site are currently under review and will be revised as additional information becomes available.

PROJECT COMPLETIONS:
None reported
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Map Identification Number 14 **GERARD AVENUE AND EAST 146TH STREET SITE** **Facility Id: C203111**
417 AND 445 GERARD AVENUE, 440 MAJ WM DEEGAN BLVD, BRONX, NY 10451 TT−Id: 320A−0005−041

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1205 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: 417 & 445 GERARD AVENUE & 440 MAJOR WM DEEGAN BLVD
Revised zip code: NO CHANGE

Brownfield Program: Brownfield Cleanup Program

See initial profile for 'GERARD AVENUE AND EAST 146TH STREET SITE' above.

Map Identification Number 15 **FORMER ROCKET JEWELRY BOX SITE** **Facility Id: C203106**
414 GERARD AVENUE, BRONX, NY 10451 TT−Id: 320A−0004−921

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE (1)
Approximate distance from property: 1270 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Brownfield Program: Brownfield Cleanup Program

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
BROWNFIELD CLEANUP PROGRAM

SITE CODE: C203106
CLASSIFICATION CODE: A REGION: 2 DEC ID: 564591
CLASSIFICATION CODE DESCRIPTION:
Work is underway and not yet complete.

NAME OF SITE: Former Rocket Jewelry Box Site
STREET ADDRESS: 414 Gerard Avenue TOWN: New York City
CITY: Bronx ZIP: 10451 COUNTY: Bronx

ESTIMATED SIZE: 0.29 Acre

SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond−

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:
None reported

SITE OWNER/OPERATOR/REPOSITORY INFORMATION:
CURRENT OWNER(S):
NAME: 125 Easst 144 Street Holdings LLC
Azi Mandel
ADDRESS: 500 Frank W Burr Boulevard #47
Teaneck, NJ 07666

OWNER(S) DURING DISPOSAL:

OPERATOR(S) DURING DISPOSAL:

APPLICANT REQUESTOR(S):
NAME: 125 East 144 Street Holdings LLC
Azi Mandel
ADDRESS: 500 Frank W Burr Boulevard #47
Teaneck, NJ 07666

DOCUMENT REPOSITORY(S):
NAME: Mott Haven Library
ADDRESS: 321 East 140th Street
Bronx, NY 10454

NAME: Bronx Community Board 1
ADDRESS: 3024 Third Avenue
Bronx, NY 10455

HAZARDOUS WASTE DISPOSAL PERIOD:

SITE DESCRIPTION:
Location: The site is located in an urban area at 414 Gerard Avenue in the Mott Haven neighborhood of the Bronx. The about 12,600−square−foot lot is situated on the southwestern corner of the block bound by East 146th Street to the north, Walton Avenue to the east, East 144th Street to the south, and Gerard Avenue to the west.

Site Features: The 12,600−square−foot (0.29 acres) site is developed with a vacant, one−story manufacturing building with a partial cellar. A 3,000−gallon No. 2 fuel oil aboveground storage tank (AST) was installed in the partial cellar in 1953 (New York State Department of Environmental Conservation [NYSDEC] Petroleum Bulk Storage [PBS] Site No. 2−207209). Current Zoning and Land Use: According to the New York City Planning Commission Zoning Map 6a, the site is located within the Lower Concourse Special Mixed Use Paired District (M1−4/R8A). This paired district promotes development and expansion of the longstanding mix of residential, commercial, industrial, and cultural use throughout the area. M1 districts typically include light industrial uses such as woodworking shops, repair shops, and wholesale service and storage facilities, and R8 districts promote residential development. Zoning is consistent with the proposed mixed−use development. The surrounding area is primarily commercial and

industrial, but also includes residential buildings, public parks, day care centers, and schools. As part of the June 2009 Lower Concourse Rezoning, the site was E−Designated for hazardous materials and noise (E−227 and City Environmental Quality Review [CEQR] No. 08DCP071X).

Past Use of the Site: The site was an undeveloped vacant lot until at least 1928. A diner was located in the southern portion from 1935 to 1944; however, the site again appears vacant from 1946 to 1951. The existing on−site building was constructed in the early 1950s, and the site historically operated as a jewelry box manufacturer (Rocket Jewelry) from at least 1954 to 2016. From the 1950s through the 1970s, Rocket Jewelry manufactured jewelry packaging (including decorative boxes and textile covered metal boxes) and displays. During this time period, metal jewelry boxes were typically constructed using a mixture of metals including cadmium, copper, lead, nickel, and zinc. Lead−based paint may also have been used to decorate the outside of the jewelry boxes. Evidence of heavy machinery and nearby drains was observed throughout the first floor and partial cellar. In the 1980s, Rocket Jewelry moved the manufacturing processes overseas and maintained the Bronx−based warehouse for packaging and distribution until 2016. Site Geology and Hydrogeology: Based on findings from the August/September 2017 Remedial Investigation, the site is underlain by fill material predominantly consisting of brown, fine− to coarse−grained sand with varying amounts of silt, gravel, concrete, brick, glass, ash, coal, slag, and debris. The fill was observed to depths varying between about 11 and 27 feet below grade surface (bgs) beneath the partial center in the western part of the site and between about 9 and 16 feet bgs beneath the first floor in the eastern part of the site. Glacial till that predominantly consisted of fine− to coarse−grained sand with varying amounts of gravel and silt was observed below the fill. Bedrock has been encountered at depths ranging from about 20 to 50 feet bgs. Depth−to−bedrock increased from east to west across the site footprint. Groundwater was observed at a depth of about 20 feet bgs across the site footprint. The inferred regional groundwater flow direction for the area surrounding the site is to the west towards the Harlem River.

CONFIRMED HAZARDOUS WASTE DISPOSED:
None reported

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
Information submitted with the BCP application regarding the environmental condition at the site are currently under review and will be revised as additional information becomes available.

ASSESSMENT OF HEALTH PROBLEMS:
Information submitted with the BCP application regarding the conditions at the site are currently under review and will be revised as additional information becomes available.

PROJECT COMPLETIONS:
None reported
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Map Identification Number 16 **GERARD AVENUE AND EAST 146TH STREET SITE** **Facility Id: C203111**
417 AND 445 GERARD AVENUE, 440 MAJ WM DEEGAN BLVD, BRONX, NY 10451 TT−Id: 320A−0004−988

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1273 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: 417 & 445 GERARD AVENUE & 440 MAJOR WM DEEGAN BLVD
Revised zip code: NO CHANGE

Brownfield Program: Brownfield Cleanup Program

See initial profile for 'GERARD AVENUE AND EAST 146TH STREET SITE' above.

Map Identification Number 17 **CONCOURSE VILLAGE WEST APARTMENTS − SOUTH** **Facility Id: C203092**
741 CONCOURSE VILLAGE AND 702 GRAND CONCOURSE, BRONX, NY 10451 TT−Id: 320A−0004−842

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE (1)
Approximate distance from property: 1290 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Brownfield Program: Brownfield Cleanup Program

See initial profile for 'CONCOURSE VILLAGE WEST APARTMENTS − SOUTH' above.

Map Identification Number 18 **GATEWAY CENTER AT BRONX TERMINAL MARKET, WESTERN** **Facility Id: C203028**
EXTERIOR STREET, BRONX, NY 10451 TT−Id: 320A−0000−057

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 1460 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: EXTERIOR ST
Revised zip code: NO CHANGE

Brownfield Program: Brownfield Cleanup Program

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
BROWNFIELD CLEANUP PROGRAM

SITE CODE: C203028

CLASSIFICATION CODE: N REGION: 2 DEC ID: 334374
CLASSIFICATION CODE DESCRIPTION:
No further action

NAME OF SITE: Gateway Center at Bronx Terminal Market, Western
STREET ADDRESS: Exterior Street TOWN: New York City
CITY: Bronx ZIP: 10451 COUNTY: Bronx

ESTIMATED SIZE: 5.761 Acres

SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond−

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:
None reported

SITE OWNER/OPERATOR/REPOSITORY INFORMATION:
CURRENT OWNER(S):
NAME: BTM DEVELOPMENT PARTNERS, LLC
ADDRESS: 625 MADISON AVE.
NEW YORK, NY 10022

OWNER(S) DURING DISPOSAL:

OPERATOR(S) DURING DISPOSAL:

APPLICANT REQUESTOR(S):
NAME: BTM DEVELOPMENT PARTNERS, LLC
ADDRESS: 625 MADISON AVE.
NEW YORK, NY 10022

HAZARDOUS WASTE DISPOSAL PERIOD:

SITE DESCRIPTION:
The Site is located in an urban area in Bronx County along Exterior Street (Major Deegan Expressway) with one parcel of approximately 5.8 acres starting approximately 583 feet north of E. 150th Street. The Site includes buildings and open areas, with some of the buildings in use as a food and farmer’s market. Surrounding uses include the Major Deegan Expressway, and a mix of commercial and industrial uses including parking, warehousing, and manufacturing. Immediately west of the site is the Oak Point Rail Link (railroad trestle) and the Harlem River. Prior uses of the site include a power plant, a refrigeration plant, a towing company, a fireproofing manufacturer, and an oil company facility. A phase I/II Environmental Site Assessment was performed in 2003. Scoping of additional site investigation activities is anticipated in February 2005. The Agreement was terminated October 2, 2006 at the request of the Volunteer.

CONFIRMED HAZARDOUS WASTE DISPOSED:

None reported

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
The primary contaminants of concern at the Site known at this time include SVOCs and mercury, copper and zinc. The 2003 investigation revealed Site soils and fill are contaminated with these contaminants, and other contaminants at lower levels, above SCGs.

ASSESSMENT OF HEALTH PROBLEMS:
None provided

PROJECT COMPLETIONS:
None reported

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Map Identification Number 19 **FORMER METRO NORTH PROPERTY** **Facility Id: C203030**
730 CONCOURSE VILLAGE WEST, NEW YORK, NY 10451 TT−Id: 320A−0004−680

MAP LOCATION INFORMATION
Site location mapped by: MAP COORDINATE (1)
Approximate distance from property: 1514 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Brownfield Program: Brownfield Cleanup Program

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
BROWNFIELD CLEANUP PROGRAM

SITE CODE: C203030
CLASSIFICATION CODE: C REGION: 2 DEC ID: 335960
CLASSIFICATION CODE DESCRIPTION:
Remediation Complete (formerly D2). Sites may still require some degree of site management associated with either operation, maintenance, and monitoring or with institutional/engineering controls (IC/ECs).

NAME OF SITE: Former Metro North Property
STREET ADDRESS: 730 Concourse Village West TOWN: New York City
CITY: New York ZIP: 10451 COUNTY: Bronx

ESTIMATED SIZE: 0.918 Acre

SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond−

INSTITUTIONAL/ENGINEERING CONTROLS:

CONTROL:	IN−PLACE DATE:
Ground Water Use Restriction	07/30/2010
Vapor Mitigation	07/30/2010
Soil Management Plan	07/30/2010
Groundwater Containment	07/30/2010
Subsurface Barriers	07/30/2010
Fencing/Access Control	07/30/2010
Landuse Restriction	07/30/2010
Building Use Restriction	07/30/2010
Monitoring Plan	07/30/2010
Site Management Plan	07/30/2010
O&M Plan	07/30/2010
IC/EC Plan	07/30/2010
Environmental Easement	07/30/2010

CROSS REFERENCES:

IDENTIFIER	SOURCE
0551708	Spill No.
2010000265110	County Recording Identifier
203036	HW Site ID
203042	HW Site ID
w2−1074−05−08	Agreement/Consent Order Number

SITE OWNER/OPERATOR/REPOSITORY INFORMATION:

CURRENT OWNER(S):

NAME: New York City Dept of Education
Bernie Orlan

ADDRESS: 44−36 Vernon Blvd
Long Island CITY, NY 11101

OWNER(S) DURING DISPOSAL:

OPERATOR(S) DURING DISPOSAL:

APPLICANT REQUESTOR(S):

NAME: NEW YORK CITY DEPT OF EDUCATION
BERNIE ORLAN

ADDRESS: 44−36 VERNON BLVD
3RD FLOOR
LONG ISLAND CITY, NY 11101

HAZARDOUS WASTE DISPOSAL PERIOD:

SITE DESCRIPTION:

Site Location: The Site ("BCP Area") encompasses approx. 0.9 ± acre of the approx. 7−acre Mott Haven School Campus ("MHSC"). The Site is located at 730 Concourse Village West, Block 2443, part of Lot 78 in Bronx, New York. The portion of the MHSC adjoining the BCP Area which is located on Block 2443, part of Lot 78 is referred to as the "Non−BCP Area A". The adjacent approx. 7.7−acre property which houses Primary School No. 156 and Intermediate School No. 151 is located on Block 2443, Lots 79 and 190.

The area beneath the platforms that support PS 156 and IS 151 is referred to as the "Non−BCP Area B".

Site Features: The Site is located in a topographic depression. The properties to the north and west are approximately 30 feet higher than the Site. To the north, Primary School No. 156, Intermediate School No. 151, and two apartment buildings are constructed on 30−foot−high concrete columns. The properties to the west are separated from the Site by a 30−foot−high retaining wall. The properties to the south are at approximately the same elevation as the Site. To the east of the Site, the ground again rises to approximately 20 feet above the Site. Current Zoning and Land Use: The current use of the site in the BCP area is a high school. The adjacent properties, besides Primary School No. 156 and Intermediate School No. 151 to the north, include the New York and Harlem Railroad to the east, the New York and Harlem Railroad and Cardinal Hayes High School to the south, and apartment buildings, Herk Elevators, parking lots, Live Poultry and Nationwide Warehouse to the west. Past Uses of the Site: The Site had been a railyard since 1891, with a machine shop, paint area, carpenter shop, and electrical warehouse located to the west of the property. All of these buildings were demolished between 1951 and 1977. The Site remained undeveloped until 2007 when construction of the Mott Haven School Campus was initiated.

Site Geology and Hydrogeology: Groundwater flow direction is generally to the west.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
NAPHTHALENE	UNKNOWN
TOLUENE	UNKNOWN
XYLENE (MIXED)	UNKNOWN
ETHYLBENZENE	UNKNOWN
BENZENE	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Nature and Extent of Contamination: Remedy on the site is now completed, and the project is in Site Management phase. The contaminants of concern in soil were benzene, toluene, ethylbenzene, and xylenes (BTEX), naphthalene, 2−methylnaphthalene, and the polynuclear aromatic hydrocarbon (PAHs) benzo(a)anthracene. The most significant contamination identified in soil and groundwater was confined to the northwestern portion of the Site (BCP area). The contaminants of concern in groundwater were dissolved phase VOC and naphthalene contamination. Remedial actions have successfully achieved soil cleanup objectives for restricted residential use. The site is managed under a Site Management Plan.

ASSESSMENT OF HEALTH PROBLEMS:

It is unlikely that people will come in contact with residual soil contamination remaining at depth as the site is covered by buildings, asphalt, concrete and other covered surfaces, i.e., synthetic turf or rubber surfaces. Inhalation of contaminants via soil vapor intrusion has been prevented through the installation of a vapor barrier and continuous operation of an active mitigation system in the new on−site school buildings. Exposure to contaminants in drinking water is not expected since the area is served by public drinking water.

PROJECT COMPLETIONS:
Operable Unit 00 − Site Management

PROJECT	DESCRIPTION	END DATE	STATUS
Certificate of Completion		08/18/2010	Actual

Operable Unit 01 − Remedial Program

PROJECT	DESCRIPTION	END DATE	STATUS
Remedial Investigation		07/05/2006	Actual
Remedial Design		07/05/2006	Actual
Remedial Action		08/18/2010	Actual

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Map Identification Number 20 **CONCOURSE VILLAGE WEST APARTMENTS − NORTH** **Facility Id: C203091**
180 EAST 156TH STREET, BRONX, NY 10451 TT−Id: 320A−0004−855

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1534 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Brownfield Program: Brownfield Cleanup Program

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
BROWNFIELD CLEANUP PROGRAM

SITE CODE: C203091
CLASSIFICATION CODE: A REGION: 2 DEC ID: 548243
CLASSIFICATION CODE DESCRIPTION:
Work is underway and not yet complete.

NAME OF SITE: Concourse Village West Apartments − North
STREET ADDRESS: 180 East 156th Street TOWN: New York City
CITY: Bronx ZIP: 10451 COUNTY: Bronx

ESTIMATED SIZE: 0.358 Acre

SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond−

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:

None reported

SITE OWNER/OPERATOR/REPOSITORY INFORMATION:
CURRENT OWNER(S):
NAME: Northlex Realty Corp Owner Type: Corporate or Commercial
ADDRESS: 1767 Central Park Ave., Suite 362
Yonkers, NY 10710

OWNER(S) DURING DISPOSAL:

OPERATOR(S) DURING DISPOSAL:

APPLICANT REQUESTOR(S):
NAME: Concourse Village West Owner LLC
Guido Subotovsky
ADDRESS: 40 Fulton Street, 12th Floor
New York, NY 10038

DOCUMENT REPOSITORY(S):
NAME: New York Public Library − Melrose Branch
ADDRESS: 910 Morris Avenue
Bronx, NY 10451

NAME: Bronx Community Board 4
Kathleen Saunders
ADDRESS: 1650 Selwyn Avenue
Suite 11A
Bronx, NY 10457

HAZARDOUS WASTE DISPOSAL PERIOD:

SITE DESCRIPTION:
Location: The site is located at 180 East 156th Street (Block 2458, Lot 35), in a commercial and residential area of the Bronx. Site Features: The subject property consists of a 15,597 square−foot rectangularly shaped parcel. A 2−story masonry and wood framed commercial building is located on the northwest corner of the site. The first floor of the building contains an operating five bay auto service repair garage. The second floor contains an operating retail coin operated laundromat. A small, wood framed parking attendant’s kiosk is located just to the south of the building, which is occupied periodically throughout the day. The remainder of the site is occupied by a paved parking lot with aboveground, steel frame auto lifts located along the eastern and western boundaries of the site. Current Zoning and Land Use: The current zoning designation of the site is C8−3 (commercial and industrial uses) and current uses, as noted above, include an auto service repair garage, retail coin operated laundromat and an attendant parking lot. Surrounding property usage is primarily commercial and residential. To the north of the site is an indoor parking garage and residential apartment buildings. Adjoining the property to the east is a KIPP Academy Elementary School; adjoining to the south is Bronx Live Poultry Corporation and across the Grand Concourse to the west is Franz Sigel Park, a NYC Municipal Park. Past Uses of the Site: This site was occupied by two small wood frame buildings in 1891, use unknown, and an undeveloped lot from at least 1908 to 1950 at which time the existing building was constructed. Identified former uses since 1950

include a gasoline filling station (1951 to late 1960s), auto repair and auto body shops (1950 to 1990s), automobile parking, office uses, retail store, and a retail coin operated Laundromat. Site Geology and Hydrogeology: Subsurface conditions consist of several feet of historic fill soils, underlain by glacial outwash sand deposits; varved glacial lake deposits consisting predominately of silt and low plasticity clay; and bedrock. The fill typically consists of sand with varying amounts of ash, cinders and glass. Silts, clays and underlying clays consisted of predominantly fine grained varved glacial lake deposits below the fill layer. Bedrock is estimated be approximately 80 ft. below ground surface (bgs). No evidence of perched water was observed during the Remedial Investigation (RI). Saturated soil indicative of the regional groundwater table was observed at approximately 30 32 ft. bgs. During the RI groundwater was reported to flow to the south; during the Supplemental RI, groundwater flow was reported to flow to the southeast. Based upon regional topography, groundwater is anticipated to flow in a south/southeasterly direction. The Harlem River is located approximately 0.4 miles west of the site.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
copper	UNKNOWN
lead	UNKNOWN
barium	UNKNOWN
selenium	UNKNOWN
1,3,5−trimethylbenzene	UNKNOWN
chrysene	UNKNOWN
1,2,4−TMB	UNKNOWN
tetrachloroethene (PCE)	UNKNOWN
benzo(a)anthracene	UNKNOWN
xylene (mixed)	UNKNOWN
ethylbenzene	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Soil and groundwater were analyzed for volatile organic compounds (VOCs), semi−volatile organic compounds (SVOCs), metals, polychlorinated biphenyls (PCBs), pesticides and metals. Soil vapor was analyzed for VOCs. Based upon investigations conducted to date, the primary contaminants of concern for the Site are petroleum−related VOCs, and metals and polycyclic aromatic hydrocarbons (PAHs) typical of historic fill.

Soil − PAHs and/or metals were found at all depths sampled across the Site (0−16 feet below ground surface [bgs]) exceeding restricted residential use soil cleanup objectives (RRSCOs), with the exception of the west corner of the site, which only had RRSCO exceedances identified to 2 feet bgs, but had historic fill down to 8 feet bgs in that corner. Several PAHs were identified, including, but not limited to: chrysene at 18.3 ppm (RRSCO is 3.9 ppm) and benzo(a)anthracene up to 27.1 ppm (RRSCO is 1 ppm) with other PAHs detected at less than 1 ppm up to approximately 6.5 ppm. Metal exceedances include, but are not limited to, barium up to 2,040 ppm (RRSCO is 400 ppm), copper up to 1,460 ppm (RRSCO is 270 ppm), and lead up to 2,790 ppm (RRSCO is 400 ppm). There were no VOCs, PCBs, or pesticide exceedances of RRSCOs. Data does not indicate off−site impacts in soil related to this site. Groundwater − Petroleum−related VOCs were detected above groundwater standards in the North half of the Site, including, but not limited to: 1,2,4−trimethylbenzene at 180 parts per billion (ppb), 1,3,5−trimethylbenzene up to 35 ppb, ethyl benzene up to 130 ppb, and total xylenes up to 210 ppb (standard is 5 ppb for all VOCs.). Some PAHs exceeded groundwater standards across all but the southernmost portion of the Site, including, but not limited to: benzo(a)anthracene at 0.1 ppb, chrysene at 0.1 ppb (the standard for both PAHs is 0.002 ppb). Dissolved naturally−occurring metals (manganese, magnesium, sodium) exceeded groundwater standards across the entire Site; dissolved selenium was also detected in the southern half of the

site at concentrations up to 30 ppb (standard is 10 ppb). There were no detections of PCBs or pesticides in groundwater. Based on data collected during the supplemental RI, petroleum−contaminated groundwater extends off−site under the adjacent sidewalk, and will be addressed under the Spills Program. Soil Vapor − Petroleum−related VOCs were detected in soil vapor across the Site at concentrations typically less than 35 micrograms per cubic meter (ug/m^3). Tetrachloroethylene (PCE) was the only chlorinated VOC detected at maximum of 40 ug/m^3. Data does not indicate any off−site impacts in soil vapor related to this site. Although none were encountered during the remedial investigation underground storage tanks (USTs), fuel dispensers, underground piping or other structures associated with a source of contamination may exist.

ASSESSMENT OF HEALTH PROBLEMS:
People may contact contaminants in soil if they dig below the surface. People are not drinking the contaminated groundwater because the area is served by a public water supply that obtains water from a different source not affected by this contamination. Volatile organic compounds in soil vapor (air spaces within the soil) may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The potential exists for the inhalation of site contaminants due to soil vapor intrusion for on−site buildings. Sampling indicates soil vapor intrusion is not a concern for off−site buildings.

PROJECT COMPLETIONS:
None reported

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Map Identification Number 21 **335 GRAND CONCOURSE** **Facility Id: 15CVCP020X**
335 GRAND CONCOURSE, BRONX, NY TT−Id: 330A−0000−040
VCP Project Id: 15CVCP020X

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1952 feet to the S

ADDRESS CHANGE INFORMATION
Revised street:
Revised zip code:

Brownfield Program: NYC Voluntary Cleanup Program

Class: Active

Parcel(s): Block 2345 Lot(s) 1

Click here for detailed site information. Copy and paste 15CVCP020X in the search box, click the green search button, then click the Project ID # to see downloadable site documents.

Map Identification Number 22 **810 RIVER** **Facility Id: C203066**
810 RIVER AVENUE, BRONX, NY 10451 TT−Id: 320A−0003−109

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2148 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Brownfield Program: Brownfield Cleanup Program

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
BROWNFIELD CLEANUP PROGRAM

SITE CODE: C203066
CLASSIFICATION CODE: C REGION: 2 DEC ID: 467866
CLASSIFICATION CODE DESCRIPTION:
Remediation Complete (formerly D2). Sites may still require some degree of site management associated with either operation, maintenance, and monitoring or with institutional/engineering controls (IC/ECs).

NAME OF SITE: 810 River
STREET ADDRESS: 810 River Avenue TOWN: New York City
CITY: Bronx ZIP: 10451 COUNTY: Bronx

ESTIMATED SIZE: 0.46 Acre
SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond−

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:

IDENTIFIER	SOURCE
1504031	Spill No.
C203066−11−14	Agreement/Consent Order Number

SITE OWNER/OPERATOR/REPOSITORY INFORMATION:
CURRENT OWNER(S):
NAME: 810 River Ave. Housing Development Fund Corporation Owner Type: Innocent Owner NonRegistry−HazSubs
ADDRESS: c/o Housing Partnership Development Corporation
242 West 36th Street 3rd Floor
New York, NY 10018

NAME: 810 River Avenue LLC Owner Type: Corporate or Commercial
Aaron Segal
ADDRESS: c/o M. Melnick & Co., Inc.
225 Willow Avenue
Bronx, NY 10454

OWNER(S) DURING DISPOSAL:

OPERATOR(S) DURING DISPOSAL:

APPLICANT REQUESTOR(S):
NAME: 810 River Partners LLC
Aaron Segal
ADDRESS: 225 Willow Avenue
Bronx, NY 10454

DOCUMENT REPOSITORY(S):
NAME: New York Public Library − Melrose Branch
Dawn Holloway
ADDRESS: 910 Morris Avenue
Bronx, NY 10451

HAZARDOUS WASTE DISPOSAL PERIOD:

SITE DESCRIPTION:
Location: The 810 River site is a 0.46 acre property located in an urban area of Bronx County at the southeast corner of River Avenue and East 158th Street near Yankee Stadium. Site Features: The entire site has been redeveloped with a seventeen−story apartment building. The site is bordered to the east by an apartment building; by a park to the south; by River Avenue and the elevated No. 4 subway to the west; Heritage Field / Macombs Park is across River Avenue; and by a parking garage to the north across East 158th Street.

Current Zoning and Land Use: The property is within an Inclusionary Housing Designated Area and is zoned C6−3D for commercial/mixed use that includes residential.

Past Use of the Site: Business operations ceased at the site in 2011. The former building last housed a bowling alley since circa 1960, a sports bar and grill, and a screen printing business. From 1927 through 1956, an auto repair garage was located in the building.

Site Geology and Hydrogeology: According to the USGS topographic map for the area (Harlem Quadrangle), the elevation of the property is approximately 25 feet above mean sea level. The area topography gradually slopes to the west.

The site building is built with a mat−slab foundation to about 16 feet below grade. The slab lays on a coarse sand and gravel layer to a depth of approximately 20 to 30 feet at which point bedrock is encountered. Bedrock geology at the site and immediate vicinity consists of Inwood Marble of Lower Ordovician to Lower Cambrian age with steep westerly dip of its upper surface.

Groundwater occurs beneath the site at approximately 18−20 feet below grade. Based on measurements made at the site, groundwater flows to the west−northwest toward the Harlem River.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
TETRACHLOROETHYLENE (PCE)	UNKNOWN
1,1 Dichloroethene	UNKNOWN
TRICHLOROETHENE (TCE)	UNKNOWN
LEAD	UNKNOWN

ZINC	UNKNOWN
CHROMIUM	UNKNOWN
BARIUM	UNKNOWN
tetrachloroethene (PCE)	UNKNOWN
cis−1,2−Dichloroethene	UNKNOWN

The following material(s) have been modified or deleted from the registry. Data reflects previous information.

DICHLOROETHYLENE	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Nature and Extent of Contamination: Soil The remedial action completed in 2016 achieved unrestricted use soil cleanup objectives. Groundwater Prior to completion of the remediation groundwater samples collected during the remedial investigation contained VOC detections exceeding New York State 6NYCRR Part 703.5 for Class GA Groundwater Quality Standards (GQS) in four out of the five monitoring wells sampled. These VOCs included cis−1,2−DCE, TCE and PCE at the respective maximum concentrations of 265 parts per billion (ppb), 135 ppb and 292 ppb. In an upgradient sampling point along Gerard Avenue, PCE, TCE and cis−1,2−DCE were observed at concentrations similar to those found on−site; thus strongly indicating an upgradient source groundwater contaminants. SVOCs and PCB/pesticides were not detected in any of the groundwater samples collected.

The remedy removed all soil contamination above unrestricted use soil cleanup objectives and protection of groundwater soil cleanup objectives. Therefore, after remediation no sources of groundwater contamination remain at the site. Soil Vapor The chlorinated VOCs; PCE (750 µg/m3) and TCE (29 µg/m3) were detected at elevated levels in all of the soil vapor samples prior to site remediation. The soil vapor impacts appeared to have been associated with the contamination found in groundwater and are therefore due to an upgradient source.

Based on the data, it is not anticipated that site−related contamination had migrated off−site in any environmental media.

ASSESSMENT OF HEALTH PROBLEMS:

Contaminated groundwater at the site is not used for drinking or other purposes and the site is served by a public water supply that is not affected by this contamination. Remedial actions completed at the site have eliminated all potential exposures to site−related soil contamination.

PROJECT COMPLETIONS:

Operable Unit 01 − Remedial Program

PROJECT	DESCRIPTION	END DATE	STATUS
Remedial Investigation		04/02/2015	Actual
Remedial Design		04/02/2015	Actual
Remedial Action		12/01/2016	Actual
Certificate of Completion		12/01/2016	Actual

****

Map Identification Number 23 **810 RIVER AVENUE** **Facility Id: 14CVCP171X**
810 RIVER AVENUE, BRONX, NY TT−Id: 330A−0000−028
VCP Project Id: 14CVCP171X

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2148 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street:
Revised zip code:

Brownfield Program: NYC Voluntary Cleanup Program

Class: Active

Parcel(s): Block 2483 Lot(s) 5

Click here for detailed site information. Copy and paste 14CVCP171X in the search box, click the green search button, then click the Project ID # to see downloadable site documents.

Map Identification Number 24 **MORRIS COURT APARTMENTS** **Facility Id: 12CVCP059X**
247 EAST 142ND STREET, BRONX, NY TT−Id: 330A−0000−016
VCP Project Id: 12CVCP059X

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2214 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street:
Revised zip code:

Brownfield Program: NYC Voluntary Cleanup Program

Class: Completed (C)

Parcel(s): Block 2334 Lot(s) 38, 39, 40, 41, 43, 45, 59

Click here for detailed site information. Copy and paste 12CVCP059X in the search box, click the green search button, then click the Project ID # to see downloadable site documents.

Map Identification Number 25 **2350 FIFTH AVENUE** **Facility Id: V00256**
2350 FIFTH AVENUE, NEW YORK, NY 10037 TT−Id: 280A−0000−533

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2231 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 2350 5TH AVE
Revised zip code: NO CHANGE

Brownfield Program: Voluntary Cleanup Program

****

DIVISION OF ENVIRONMENTAL REMEDIATION
VOLUNTARY CLEANUP PROGRAM

SITE CODE: V00256
CLASSIFICATION CODE: N REGION: 2 DEC ID: 57692
CLASSIFICATION CODE DESCRIPTION:
No further action

NAME OF SITE: 2350 Fifth Avenue
STREET ADDRESS: 2350 Fifth Avenue TOWN: New York City
CITY: New York ZIP: 10037 COUNTY: New York

ESTIMATED SIZE: 1.7 Acres

SITE TYPE: Dump− Structure− Lagoon− Landfill− Treatment Pond−

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:

IDENTIFIER	SOURCE

The following cross reference(s) have been deleted from the registry. Data reflects previous information.

00−TEMP−01−54(R	Haz. Substance ID

SITE OWNER/OPERATOR/REPOSITORY INFORMATION:
CURRENT OWNER(S):
NAME: 2350 FIFTH AVENUE CORPORATION Owner Type: Missing Code in Old Data
ADDRESS: 2350 FIFTH AVE.
NEW YORK, NY 10017

OWNER(S) DURING DISPOSAL:

OPERATOR(S) DURING DISPOSAL:

APPLICANT REQUESTOR(S):
NAME: 2350 Fifth Avenue Corp. Applicant Type: Missing Code in Old Data
ADDRESS: 2350 FIFTH AVE.
NEW YORK, NY 10037

HAZARDOUS WASTE DISPOSAL PERIOD:

SITE DESCRIPTION:
See site no. 231004.

CONFIRMED HAZARDOUS WASTE DISPOSED:
  None reported

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:
  None provided

ASSESSMENT OF HEALTH PROBLEMS:
  None provided

PROJECT COMPLETIONS:
  None reported
****

SOLID WASTE FACILITIES IDENTIFIED WITHIN THE 1/2 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 26 **BRONX COUNTY RECYCLING** **Facility Id: NY00000000438**
475 EXTERIOR STREET, BRONX, NY 10451 TT−Id: 390A−0004−476

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1107 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Activity Number	Activity Type	Active?	Regulatory Status	Activity Start Date	Activity End Date	Activity Closed Date	Activity Delisted Date
03W87	C&D processing − registration	No		02/17/2002			

Affiliation	Affiliation Type	Affiliation Start Date	Affiliation End Date
Bronx County Recycling 475 Exterior Street, Bronx, NY, 10451	Owner	10/12/2005	
Salvatore Cascino United States	Contact	02/08/2002	

Map Identification Number 27 **EQUINOX ASSOCIATES, INC. (UNIVERSAL DEMO** **Facility Id: NY00000000464**
475 EXTERIOR STREET, BRONX, NY 10451 TT−Id: 390A−0004−480

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1107 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Activity Number	Activity Type	Active?	Regulatory Status	Activity Start Date	Activity End Date	Activity Closed Date	Activity Delisted Date
03W66	C&D processing − registration	No	Permit	02/17/2002			

Affiliation	Affiliation Type	Affiliation Start Date	Affiliation End Date
RICHARD TUORTO, SITE MANAGER United States	Contact	02/08/2002	

Map Identification Number 28 **NEW YORK RECYCLING LLC** **Facility Id: NY40000117825**
475 EXTERIOR STREET, BRONX, NY 10451 TT−Id: 390A−0004−490

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1107 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Activity Number	Activity Type	Active?	Regulatory Status	Activity Start Date	Activity End Date	Activity Closed Date	Activity Delisted Date
03W87	C&D processing − registration	Yes	Registration	02/12/2012			

Map Identification Number 29 **Facility Id: NY247**
BRONX TERMINAL MARKET, BRONX TT−Id: 400A−0000−240

MAP LOCATION INFORMATION
Site location mapped by:
Approximate distance from property: 1165 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10451

1934 New York City municipal waste disposal site −−− Cubic yards dumped in 1934: 128

Map Identification Number 30 **Facility Id: NY241**
FRANZ SIEGEL PARK, BRONX TT−Id: 400A−0000−239

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 1370 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10451

1934 New York City municipal waste disposal site −−− Cubic yards dumped in 1934: 74

Map Identification Number 31 **CON−EDISON @ SERVICE CENTER** **Facility Id: NY00000000465**
281 EXTERIOR STREET, BRONX, NY 10451 TT−Id: 390A−0004−542

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2170 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Activity Number	Activity Type	Active?	Regulatory Status	Activity Start Date	Activity End Date	Activity Closed Date	Activity Delisted Date
03W70	C&D processing − registration	No		02/17/2002			

Affiliation	Affiliation Type	Affiliation Start Date	Affiliation End Date
HARRY A. COATES United States	Contact	02/08/2002	

Map Identification Number 32 **ECOLOGY RECYCLING PLANT** **Facility Id: 03T27**
TT−Id: 380A−0000−211

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 2424 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: 321 CANAL PL
Revised zip code: 10451

The following is historic data. The Activity ID is not associated with any other solid waste facilities.

PERMIT NUMBER	PERMIT EXPIRES	FACILITY TYPE	FACILITY STATUS	WASTE TYPES
20850416		LARGE TRANSFER STATION (>50000 CY/YR)		'High Grade Paper'

Map Identification Number 33 **ECOLOGY RECYCLING PLANT** **Facility Id: NY00000000254**
321 CANAL PLACE, BRONX, NY 10451 TT−Id: 390A−0004−514

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2424 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Activity Number	Activity Type	Active?	Regulatory Status	Activity Start Date	Activity End Date	Activity Closed Date	Activity Delisted Date
03M27	RHRF − registration	No		02/17/2002			

Affiliation	Affiliation Type	Affiliation Start Date	Affiliation End Date
ANTHONY LACAVALLA United States	Contact	02/08/2002	

HAZARDOUS WASTE TREATMENT/STORAGE/DISPOSERS IDENTIFIED WITHIN THE 1/2 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 34 **POWER CHEMICAL CO INC** **Facility Id: NYD001549633**
387 RIDER AVE BRONX, NY 10451 TT−Id: 460A−0000−048
EPA (RCRA) Name: POWER CHEMICAL CO INC
EPA (RCRA) Address: 387 RIDER AVE BRONX, NY 10451

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (4)
Approximate distance from property: 2123 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Notification date: 12/10/1980 Part A notification date: 03/01/1981
Land Disposal: Receives offsite waste: Incinerator:
Storer: Treatment facility: Transporter:
Contact Name: HARVEY SCHWARTZ Source Type: Part A Contact Phone: 718−292−4320 Contact Info Date: 03/01/1981
Contact Name: HARVEY SCHWARTZ Source Type: Notification Contact Phone: 718−292−4320 Contact Info Date: 12/10/1980

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
F001	Spent halogenated solvents used in degreasing	501	GALLONS	TSD	1982		

HAZARDOUS MATERIAL SPILLS INTRODUCTION

The Hazardous Material Spills in this section are divided into eight spill cause groupings. These include:

Active Spills Section: Spills with incomplete paperwork that may or may not be cleaned up (See Date Cleanup Ceased)

1) Tank Failures
2) Tank Test Failures
3) Unknown Spill Cause or Other Spill Cause Hazardous Spills
4) Miscellanous Spill Causes: Equipment Failure, Human Error, Tank Overfill, Deliberate Spill, Traffic Accidents, Housekeeping, Abandoned Drum, Vandalism and Storms.

Closed Status Spills Section: Spills with completed paperwork that may or may not be cleaned up (See Date Cleanup Ceased)

5) Tank Failures
6) Tank Test Failures
7) Unknown Spill Cause or Other Spill Cause Hazardous Spills
8) Miscellanous Spill Causes: Equipment Failure, Human Error, Tank Overfill, Deliberate Spill, Traffic Accidents, Housekeeping, Abandoned Drum, Vandalism and Storms.

All spills within each spill cause category are presented in order of proximity to the subject site address.

Please note that spills reported within 0.25 mile (or one−eighth mile in New York City) are mapped and profiled.

Between 0.25 mile (or one−eighth mile in New York City) and 0.5 mile, only the following spills are mapped and profiled:

* Tank Failures;

* Tank Test Failures;

* Unknown Spill Cause or Other Spill Cause;

* Spills greater than 100 units of quantity; and

* Spills reported in the NYSDEC Fall 1998 MTBE Survey.

A table at the end of each section presents a listing of reported Miscellanous Spills with less than 100 units located between 0.25 mile (or one−eighth mile in Manhattan) and 0.5 mile. These spills are neither mapped nor profiled.

NO ACTIVE TANK FAILURES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

ACTIVE TANK TEST FAILURES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 35 **UNDERGROUND TANK** **Spill Number: 1502628** **Close Date:**
234 EAST 149TH ST BRONX, NY TT−Id: 520A−0308−815

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1701 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: ANGELO − LINCOLN HOSPITAL
Spiller Phone:
Notifier Type: Tank Tester
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: vszhune
Contact for more spill info: RICKY ROUFF
Contact Person Phone: (917) 593−2154

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/09/2015		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

50000 gallon tank

DEC Investigator Remarks:

6/9/2015 − Feng − Duty Desk. Left message to Ricky Rouff (917−593−2154) and Angelo (917−741−9345).

6/16/2015 − Feng − Left a message to John Healy (718−579−5680)

08/28/15−Hiralkumar Patel. case transferred as part of ongoing investigation under spill #: 0204573.

DEC Hansley sent TTF letter on 06/16/15, but no response yet.

alternate address: 212−268 East 149th Street, 415 Morris Ave, 419−541 Morris Ave, 2824 Park Ave, 201−219 East 146th Street, 410−448 Canal Place, 229−245 East 144th Street

PBS #: 2−327727. as per PBS record, the site has/had following tanks: − four (4) 50,000 gal #2 oil USTs, in−service, installed in Sep. 1970 − two (2) 10,000 gal diesel USTs, in−service, installed in Sep. 1970 − one (1) 100 gal diesel AST in contact with impervious barrier, in−service, installed in Sep. 1970 − one (1) 275 gal diesel AST in contact with impervious barrier, in−service, installed in Oct. 2009 − one (1) 100 gal diesel AST on legs, removed in Nov. 2009

PBS registration expired on 08/28/2012. −−−−−−−−−−−−−−−−−−

other spills: 9208811, 9310375, 9515003, 0204573, 0313236, 0912680, 0912687, 1206812

spill #: 9208811 was reported on 10/30/1992 due to 3 gal #2 oil spill. case closed. spill #: 9310375 was reported on 11/26/1993 as 30 gal #6 oil spilled into sewer due to tank overfill. case closed. spill #: 9515003 was reported on 02/22/1996 as 30 gal #6 oil spilled due to truck malfunction. case closed. spill #: 0204573 was reported on 07/31/2002 due to findings of soil contamination. case still open. spill #: 0313236 was reported on 03/02/2004 as 50,000 gal #2 oil tank (tank # 4) failed a tightness test. tank was repaired and tested tight. case closed. spill #: 0912680 was reported on 03/05/2010 as 25 gal diesel spilled onto parking lot and storm drain due to overfill. case closed and referred to spill #: 0912687. spill #: 0912687 was reported on 03/05/2010 due to diesel spill onto parking lot and storm drain. case closed. spill #: 1206812 was reported on 10/10/2012 as 10,000 gal diesel tank (tank # 6) failed a tightness test due to loose gasket. case closed.

Lincoln Hospital 234 E 149th Street Bronx, NY 10451 Attn.: Patrick Hallahan Chief Engineer Ph. (718) 579−5680 (O) email: patrick.hallahan@nychhc.org

NYC Health & Hospitals Corp. 125 Worth Street New York, NY 10013 Attn.: Ramanathan Raju Ph. (212) 788−3321

12/04/15−Hiralkumar Patel. received letter from Leonard Balgobin (718−579−5071) from NYCHHC. he mentioned that Woodard and Curran has been hired to assist in complying with PBS requirements.

06/09/16−Hiralkumar Patel. 3:48 PM:− left message for Mr. Hallahan. 3:59 PM:− sent email to Mr. Hallahan including copy of letter dated 06/16/15. asked him to submit required documents immediately.

10/05/16−Hiralkumar Patel. after discussing with DEC Vought and DEC Zhune, case assigned to DEC Zhune.

PBS expired.

refer to spill #: 0204573 also.

ACTIVE UNKNOWN CAUSE SPILLS AND OTHER CAUSE SPILLS IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 36 **PHASE 2** **Spill Number: 1407530** **Close Date:**
110 EAST 149TH STREET BRONX, NY TT−Id: 520A−0303−263

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 792 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: 110 E 149TH ST
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Other
Caller Name:
DEC Investigator: PXLAKHAN
Spiller: RIVER AVE MANAGEMENT
Notifier Name:
Caller Agency:
Contact for more spill info: STEVEN FRANK
Spiller Phone:
Notifier Phone:
Caller Phone:
Contact Person Phone: (718) 321−3136 ext. 2
ext: 236

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/21/2014		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	UNKNOWN	0	UNKNOWN	SOIL

Caller Remarks:

CALLER ADVISED RECEIVED PHASE 2 RESULTS SHOWING UNKNOWN PETROLEUM IN THE SOIL

DEC Investigator Remarks:

10/21/2014 − Feng − Duty Desk Officer. Talked to Steven Frank of LIRO Engineering (718−321−3136 x236, franks@liro.com). This is an E−Designation site and in the planning stage to develop into affordable housing and a hotel. The site owner is currently working with NYCOER. The NYCOER has approved the RIWP and a Phase 2 has been done. A total of 5 soil borings have been installed onsite, i.e. in 2 corners and soil and groundwater were sampled. Petroleum contamination has been identified at the

boarder line near next door property. Mainly BTEX with highest of xylenes were found in the soil samples. According to the Phase 1 conducted by previous consultant, the site has been used for warehouse, lumber yard, and heating oil tank in the other portion of the site, but the soil boring results did not indicate petroleum impacts in this area. The above mentioned Phase 1 did indicate that the next door property 100 East 149th Street was a filling station and they suspected it is the source of the petroleum impact at 110 East 149th Street. The demolish of the onsite warehouse might occur in Spring 2015. There is no schedule for the development. Next, they will submit the investigation report to OER and DEC.

3/30/2016 ˇ Feng − This spill is transferred from J. Feng to J. Vought as per J. Vought.

12/19/2017 − Austin − Project transferred from Vought to Lakhani − end

Map Identification Number 37 **COMMERCIAL PROPRTY** **Spill Number: 1705596** **Close Date:**
445 GERARD AVE BRONX, NY TT−Id: 520A−0335−887

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 1161 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Other
Caller Name:
DEC Investigator: vszhune

Spiller: 445 GERARD AVE LLC
Notifier Name:
Caller Agency:
Contact for more spill info: LANGAN ENG

Spiller Phone:
Notifier Phone:
Caller Phone:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/06/2017		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL, GROUNDWATER

Caller Remarks:

contamination based on field obsveration

DEC Investigator Remarks:

9/7/17−Zhune called MIchell from Langan Engineering. COuld not get her . Left a message

Map Identification Number 38 **RESIDENTIAL** **Spill Number: 1802478** **Close Date:**
702 GRAND CONCORDE BRONX, NY TT−Id: 520A−0341−235

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1165 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: 702 GRAND CONCOURSE
Revised zip code: 10451

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: BCP SITE C2 03092
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: SJWALSH
Contact for more spill info: GORDANNA KENDROT
Contact Person Phone: (631) 741−7142

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/02/2018		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	UNKNOWN	0	UNKNOWN	SOIL

Caller Remarks:

20 cubic yards of soil is the area impacted. The cleanup is pending . They are digging the area impacted as a right now

DEC Investigator Remarks:

6/2/18 TJD Teleconference with notifier, Jordanna Kendrot from GEI consultants − who states location is an active BCP Site (C203092). Spill is reported to be associated with a historical 550 UST of unknown origin. Consultant stated this sit is being managed out of DEC CO (Steven Walsh).

6/4/18 TJD Received email from notifier − forwarded to Steven Walsh with question regarding spill assignment. Does CO want spill reassigned to existing project manager or closed and cross−referenced to BCP site number. Awaiting response. Body of email from consultant is below:

When they sent me the original email concerning the spill, they made it seem like there was an active spill from a newly discovered 550−gallon UST, which had impacted the surrounding 20 CY of soil. Now that they actually sent pictures/I was able to talk with them further, it looks like it was just stained soil located under the concrete slab that was under the tank (once it was pumped out/removed). The impacted soil looks like it could be attributed to a historic spill associated with the historic operations of the Site, and does not seem like it is the component of an ˆactive˜ spill (i.e., there is no standing oil on the surface, the soil is not saturated with product, the staining is faded/old, and the PID readings from the area were minor [less than 200ppm]).

This stained soil will be managed under the BCA for BCP Site No. C203092 and will be excavated and sampled to confirm removal of petroleum impacts. The Site Manager for this Site is Steven Walsh in Albany, NY. He has not been contacted yet about the spill due to the new information/me sending this email to you to clarify that information.

The purpose of this email is to confirm if this incident should still be listed as an active NYSDEC Spill No. 18−02478, or if this incident can be closed due to new information provided in this email. Please feel free to give me a call or email to discuss this further. It´s really me confirming if this stained soil observation should even be considered a spill, since there was no liquid discharge present.

6/5/18 TJD Received email from DEC Central Office Project Manager (Steven Walsh) You can put the spill in my name. Our group has been leaving the spills open until the COC is issued.

Spill has been reassigned.

Map Identification Number 39 **SOIL** **Spill Number: 1705442** **Close Date:**
414 GERARD AVE BRONX, NY TT−Id: 520A−0335−856

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 1256 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: MICHELLE − 125 EAST ST HOLDINGS
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: TJDEMEO
Contact for more spill info: MICHELLE
Contact Person Phone: (212) 479−5429

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/31/2017		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	0	UNKNOWN	0	UNKNOWN	SOIL

Caller Remarks:

waiting on tests clean up is pending

DEC Investigator Remarks:

8/31/17 TJD Left voicemail message for Michelle at Langan Engineering requesting callback with additional information.

Map Identification Number 40 **EXCAVATION SITE** **Spill Number: 1801890** **Close Date:**
180 EAST 156TH ST BRONX, NY TT−Id: 520A−0341−068

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 1546 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: UNKNOWN

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Other
Caller Name:
DEC Investigator: SJWALSH

Spiller: JORDANNA KENDROT − UNKNOWN
Notifier Name:
Caller Agency:
Contact for more spill info: JORDANNA KENDROT

Spiller Phone:
Notifier Phone:
Caller Phone:
Contact Person Phone: (631) 759−2975

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/18/2018		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	UNKNOWN	0	UNKNOWN	SOIL

Caller Remarks:

5 tanks in a concrete holder ea. tank 550 gallons former auto repair facility clean up pending

DEC Investigator Remarks:

05/21/18−Hiralkumar Patel. alternate address: 747 Concourse Village West

no other spills or PBS found.

as per NYCDOB record, a permit application was approved on 10/16/17 for construction of new 10−story residential building with a cellar.

8:38 AM:− spoke with Jordanna who mentioned that the site is being managed by DEC Steven Walsh under VCP (# C203091).

case assigned to DEC Walsh.

Map Identification Number 41 **PARKING GARAGE** **Spill Number: 0551708** **Close Date:**
173 E 156TH STREET BRONX, NY 10451 TT−Id: 520A−0013−039
AKA 751 CONCOURSE VILLAGE WEST

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1736 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: UNKNOWN

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Local Agency
Caller Name: KOON TANG
DEC Investigator: JAKOLLEE

Spiller: STUART RUBINFELD − MATEL REALTY LLC C/O PENTA C Spiller Phone:
Notifier Name: LEE GUTERMAN Notifier Phone: (718) 472−8502
Caller Agency: DEC Caller Phone: (718) 482−4928
Contact for more spill info: LEE GUTERMAN Contact Person Phone: (718) 472−8502

SPILL LIEN INFORMATION

NOTE: Spill lien location may differ from the reported spill location.

OSC Spill Number: 05−51708 Complete: No Released: No
Tax Map Id: 2−02458−0132

PIN	Amount of lien	Property Owner & Address	Date lien request rec'd from OAG	Date lien signed by Admin.	Date proof of service rec'd	Date sent to OAG	Date release requested by OAG	Date release signed by Admin.	Date release sent to OAG
03856	$136914.95	Penta One Realty 751 Concourse VLG W, Bronx, 10451	07/16/2014	08/12/2014					

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/01/2005		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	100.00	GALLONS	0.00	GALLONS	SOIL, GROUNDWATER

Caller Remarks:

site assessment of the property discovered vocs and svocs in soil and groundwater.

DEC Investigator Remarks:

3/17/06 − Authorized by Assistant Director to use the Spill Fund to investigate and remediate the off−site BTEX and MGP−related

petroleum contamination for this BCP Site. The BCP Site at 672 Concourse Village West will be developed by the NYC SCA for 4 new schools. Petroleum−related contamination found at the Site will be cleaned up by SCA under the BCA. Off−site contamination is not the responsibility of SCA since they are the Volunteer for this Site.

Due to performance problems with the lowest bid contractor, National Environmnetal, The task to investigate and remediate this off−site plume has been issued to the 2nd lowest bid contrator, EnviroTrac. Authorization has been given by the Section Chief of the Contract Section in Central Office on 3/17/06.

Regionsl staff are working with Central Office Contract Section to resolve the performance problems with the lowest bid contractor. − KST

3/10/06: Meeting with NYSDEC and Dave Lorthioir of EnviroTrac. EnviroTrac will provide a workplan for additional delineation of the off site BTEX contamination. Notification letters were sent out to 173 and 180 E 156th Street properties that investigations will be conducted on their properties.

********** ENVIROTRAC WILL CONTINUE TO DO GAUGING, SAMPLING, COLLECTING AND OTHER UNTIL McEnvironmental TAKES OVER **********

3/15/06: Received a letter from North Lex Realty stating that they will fully cooperate with the investigation.

3/16/06: Received phone call from Stewart Rubinfield (212−674−0950 x105, fax 212−598−9821) of Penta One Realty. He was inquiring about grounds of his status as Potential Responsible Party. He will fax his lease agreement that states that the historic use of the property is only as a garage and auto repair (it is currently a garage). He has owned the property for 21 years and leases the property.

3/31/06: Sent a notification letter to the operator of 180 E 156th Street, A&Z Business Corp. Received an email from EnviroTrac suggesting Saturday work hours, since the garages are full during the week.

4/3/06: Spoke with Abi of A&Z Business Corp. (phone 212−831−6905, email comprop3@aol.com). He requested any work on the property to be done on a Saturday.

4/7/06: Left phone message for Stu Rubinfield notifying him that I will be sending out a P−site notification letter.

4/10/06: Stu Rubinflield wants us to cc the P site notification letter to:

John W. Clarke Environmental Attorney Harris Beach 805 3rd Avenue New York, NY 10022

4/11/06: Emailed the factsheet to Mike McCahern of MC Environmental (mjm.mce@verizon.net)

4/13/06: Approved workplan for off−site investigation. Ground penetrating radar will be used to identify the locations of the USTs. Proposed monitoring well locations will then be submitted to the Department for review.

4/14/06: GPR tentatively scheduled for Wednesday 4/19/06.

4/18/06: Received invoice for March work.

4/20/06: Received email from David Lorthior. GPR was performed on 4/19 at 180 E. 156th Street and the results of the survey were negative. No evidence of USTs were observed. GPR was not performed at 173 E. 156th Street because access was not granted, contact could not be made with the owner.

4/20/06: Left phone message for Stu Rubinfield. His voice mail indicated that he will be out of the office until Monday.

4/25/06: Access letter sent to Moshe Fleischman (the site operator)with a description of GPR, well installation, surveying and sampling activities that will be performed. Letter addressed to Moshe Fleischmann, fax number:(718) 676−2726.

5/5/06: Spoke to Dave Lorthiour. Moshe Fleischman (the site operator) received that access letter and passed it on to the owner. The owner stated that he would not allow access to his property. Called Stu Rubinfield to see if he received the letter, and to request access. A phone message was left.

5/11/06: Stew Rubinfeld's consultant, Michael McEachern of MC Environmental viewed the BCP document repository. All future correspondence should be cc'd to Michael McEachern.

5/17/06: A public meeting occurred on May 16, 2006 at IS 151. Noise affecting students at nearby schools was raised as a concern. The April invoice for EnviroTrac pin job was processed.

5/18/06: Received letter from Joel Sachs, lawyer for Stu Rubinfeld. An access agreement is required. NYSDEC attorney John Urda is drafting an access agreement.

5/22/06: Letter from DEC John Urda regarding site access mailed May 19, 2006 to Joel Sachs, attorney for property owner Stu Rubinfeld.

5/25/06: Left a voice message with Joel Sachs to discuss access agreement.

6/19/06: Joel Sacks submitted a draft access agreement to the NYSDEC.

6/30/06: Received a cc of an access agreement sent to EnviroTrac.

7/12/06: EnviroTrac will sign the access agreement. GPR scheduled for 7/18/06.

7/19/06: GPR identified location of tankfield. Well installation scheduled 7/29/06.

7/29/06: Witnessed Geoprobe sampling at 173 E 156th Street.

7/31/06: Received email from David Lorthior: We were able to install four soil borings and one monitoring well on Saturday (at 173 E 156th Street). Two soil samples are being submitted to the laboratory. I will contact you with the next drilling date. I am trying to convince the owner of the parking business to let us come in on a weekday.

8/9/06: Contacted Tim Slauson of SCA for permission to sample sidewalk wells MW−18, MW−19, MW−9, MW−8, MW−20, MW−21. 718−753−5026 (phone), tslauson@nycsca.org

8/10/06: Received email from Tim Slauson of NYCSCA (718−752−5026): I have confirmed with Shaw that all wells are accessible. However, please be aware that they were unable to collect a groundwater sample from MW−19 due to shallow bedrock (well is dry). Also, you should be aware that Langan has some smaller diameter piezometers near MW−20 and MW−21 that are not Shaw's wells. All of Shaw's wells have an 8 diameter manhole cover. Please feel free to call me with any questions. Also, we would be interested in being informed of DEC's findings and evaluation of this sampling effort, if possible.

8/29/06: Received email from David Lorthior: We are sampling the existing wells along Concourse Village West and the new monitoring well inside 173 CVW today. The sample for the new well will be rushed with results for Monday, 9/11. We are scheduled to drill and install the two remaining wells inside the building on Wed. 9/13. The exact locations of the wells inside the building will depend partly on the laboratory results of the new well. Notifications have been sent to the property owner and I have not received any denials yet. MC Environmental has also been notified. Regarding the other UST we identified in the parking lot north of the building (see pictures), Mike McEachern has not been able to provide us with any information regarding what this UST was used for (gasoline vs. fuel oil). Says his client has little or no records regarding this tank.

Sent Mike McEarchern of MC Env and email requesting information regarding the tank in the northern part of the parking lot at 173 E 156th Street/751 CVW.

9/8/06: Received preliminary data regarding well installed in 173 E 156th garage from Mike McEachern. BTEX 22,802 ppb. Called Mike McEachern to schedule a meeting to discuss results.

9/12/06: Meeting scheduled for 9/13/2006. DEC Andersen, Tang, Urda, Stu Rubinfeld, Mike McEarchern (MC Env.) and David Lorthior (EnviroTrac) expected to attend. Received data from new well, BTEX 26,650.

9/14/06: Meeting on 9/13/06 with Mike McEarchern (MC Env.), Stewart Rubinfeld (owner), Dave Lorthior (EnviroTrac), NYSDEC Tang, NYSDEC Urda, and NYSDED Andersen. A stipulation agreement will be sent to Mr. Rubinfelds attorney (Joel Sacks). NYSDEC investigation at 180 E 156th Street is planned for Wednesday June 20th.

9/15/06: Received soil analytical data. BTEX present at concentrations below TAGM.

9/19/06: Retaining wall was destabilized during jet grounting at the adjacent BCP site. Settling of soil caused cracking of sidewalk adjacent to 180 East 156th Street. Received email from David Lorthior of EnviroTrac. Access is problematic at 180 E 156th street. Called Abi from A&Z Business Corp and spoke with the receptionist, he will return call.

10/3/06: Spoke to Ray Carrion (917−642−7205) and Tim Slauson (718−752−5026) about the sidewalk repair. The sidewalk will be repaired when the retaining wall has been fully stabilized. Followup in two weeks to get status.

10/23/06: Left message for Abi of A&Z Business Corp. (phone 212−831−6905, email comprop3@aol.com).

10/24/06: Spoke to Abi. He will allow us access to his property, on a weekend, to complete soil borings.

11/16/06: Soil boring installation is scheduled for December 2, 2006. A plan will be submitted by EnviroTrac.

11/29/06: A stipulation agreement was sent to Joel Sachs, esq. for 173 E 156th Street RP. Joel Sachs stated that the agreement was lost in the shuffle, and requested that it be resent.

11/30/06: Workplan for delineation at 180 E 156th st was approved.

12/4/06: Two wells were installed at 180 East 156th Street on December 2, 2006. Two additional two wells, and soil borings, will be installed on Saturday December 9, 2006. When delineation is completed a Remedial Action Plan will be prepared.

12/11/06: Two additional wells and soil borings were installed at 180 East 156th Street in Bronx. Visible petroleum staining was evident in the saturated zone. Received letter from EviroTrac with summary of delineation at 180 E 156th Street. Sent tightness testing required letter to Ved Parkash (from PBS 2−236241) of 750 Grand Concourse. Tightness testing results due by January 12, 2007.000

12/13/06: Department sent a letter to Dave Lorthior indicating approval for installation of an upgradient well on 156th street, and gauging and sampling of all onsite and offsite monitoring wells.

12/18/06: Installation of upgradient well is set for Thursday, 12/28

12/21/06: Received stipulation agreement signed by Stuart Rubinfeld of PentaOne Realty, 173 East 156th Street, effective date 12/18/06.

1/2/07: Upgradient well installation on 156th st not feasible due to bedrock and refusal. Bedrock wells not required at this time. Existing wells will be gauged and sampled on January 9th. The well on Mr. Rubinfelds well will be gauged, but not sampled. Samples will be analyzed for EPA Methods 8260, 8270, including PERCs.

1/8/07: Spoke to Mike McEachern. IP will be submitted by 1/12/07, delay due to waiting for quotes from contractors.

1/15/07: Spoke to Mike McEachern. Workplan is in the mail.

1/18/07: Received laboratory data from STL.

1/26/07: Sent followup email to Mike McEachern. Workplan has not been received. Requested that an electronic copy be submitted.

1/30/07: Workplan for 751 CVW is under review by the Department. Received laboratory data from wells samples by EnviroTrac. BTEX, methylene chloride, and napthalene present above groundwater standards.

2/1/07: Conditionally approved workplan for 751 CVW. Fuel oil UST removal and excavation, hydraulic lift removal and excavation, gasoline tank field inspection and abandonment (if necessary), groundwater delineation. Three to four wells will be installed: two along eastern portion of the property, one upgradient of MW22, one near MW19 if it is dry. All soil and gw samples will include analysis for 8260 & 8270 including cVOCs and MTBE.

2/2/07: Received email from Mike McEachern: I don’t believe that the conditions in your letter should pose a problem, although my client has asked me some clarification questions on which I may be getting back to you. The upgradient well is something that we

considered, but we may not be able to reach groundwater before we hit the top of bedrock which slopes up to the west. You can see bedrock outcrops in the park along Grand Concourse. I think that this is why well MW−19 was dry. It remained dry when I was at the site with Envirotrac for sampling. I don't think that it would be productive to install a bedrock well, since all of the other monitoring wells are in the overburden. I will review the well and boring information from Shaw, and see where we would stand the best chance of getting an upgradient well.

2/6/07: Emailed Dave Lorthior to followup on status of report preparation.

2/14/07: Received email from Dave Lorthior: The report is proceeding, but slowly. We did not get the lab results until the last week of January and there have been some issues with them (such as MTBE is not listed on the results). Hope to have this all straightened out and the report to you by late next week.

3/5/07: Emailed Dave Lorthior to followup on report preparation.

3/7/07: Spoke to Mike McEachern. Tank work and drilling scheduled for week of 4/2 − 4/10.

3/20/07: Emailed Dave Lorthior to followup on report preparation.

3/28/07: Received email from Dave Lorthior indicating the report is being assembled.

4/2/07: Received phone message from Mike McEachern. Tank work scheduled for wednesday 4/4/07.

4/4/07: Site visit to Stip site. Tanks could not be located.

4/11/07: A geophysical survey at the stip site is scheduled for 4/17/07.

The community filed a lawsuit in Bronx Supreme Court alleging the School Construction Authority did not meet its obligations under the State Environmental Quality Review Act in cleaning up this site. This news was reported in the Daily News, the Metro, NY1 and channel 4. Discussed the overdue investigation report for the PIN site, and the possiblity of installing a pump and treat system as an interim remedial method with DEC Brevdo. A conference call with EnviroTrac will be scheduled.

Received email from Dave Lorthior. The report has been mailed. It has not yet been received.

4/17/07: Received report from EnviroTrac. Report is inconclusive as to the source of impact in the parking lot south of 156th st. There is no VOC impact in the vadose zone. VOC and SVOC impact and staining in the groundwater. Plume stretches N−S while groundwater flows E. cVOCs above TAGM in the groundwater.

Spoke to Mike McEachern. A geophysical survey was performed on 4/14/07. Tanks were not located inside the building. Extensive piping. Geoprobes will be done around piping. Exterior tank will be excavated. Additional monitoring wells will be installed. Soil from excavation was ND, although there was an odor. He expressed interest in coordinating the next sampling date with the monitoring of wells at the existing schools.

4/24/07: Sent Stuart Rubinfeld/cc Mike McEachern a letter confirming that MW19 must be replaced if it is dry.

4/30/07: Received letter and FOIL request from Mike McEachern. Laboratory data from exploratory tank excavation. BTEX/MTBE were ND despite gasoline odor in soil.

5/24/07: Spoke to Dave Lorthior, site will be sampled quarterly. Sent email to Mike McEachern to followup on site status.

5/25/07: Received email from Mike McEachern: I recently received a proposal to drill three monitoring wells (outside) and ten Geoprobe borings inside. We will schedule the monitoring wells as soon as I get the client's approval of the proposal and the Geoprobes would best be done after school lets out in June. The same hold for the outside tank work, which we will need to take up a good portion of the parking lot. I will get back to you next week with a better idea of schedule.

6/20/07: Emailed Mike McEachern to followup on scheduling of tank work and geoprobing.

6/22/07: Received email from Mike McEachern, drilling date not scheduled yet.

7/10/07: Received groundwater sampling data for PIN site. Groundwater sampled on 6/8/07. Max BTEX 6563 ppb (MW24). Max MTBE 5 (MW8).

7/26/07: Spoke to Mike McEachern. Field work not scheduled yet.

8/15/07: Left message with Mike McEachern's secretary to followup on mobilization schedule.

8/23/07: Mobilization scheduled for Monday 8/27/07.

8/29/07: Spoke to Mike McEachern. The gasoline tank in the parking lot was removed. Soil samples were collected, none had a PID. The tank will be registered. A new well was installed in the building. A well was attempted to be installed in the sidewalk on 156th Street. Bedrock was reached at 22 ft. Groundwater was not reached. Geoprobe work has not been scheduled yet. Sent email requiring sampling of SCA's well MW18 on the sidewalk.

9/11/07: Spoke to Mike McEachern. Geoprobe and hydraulic lift excavation scheduled for 9/13/07.

9/21/07: Spoke to Dave Lorthior. Wells were sampled.

10/16/07: Received groundwater monitoring data, sampled by EnviroTrac. Max BTEX MW8 12650 ppb, also high BTEX in MW23 6953 ppb, and in MW 24 9302 ppb.

10/24/07: Emailed Mike McEachern. Requested a status report be submitted with the results of recent activity at the site.

10/25/07: Received email from Mike McEachern: I recently received the last of the lab results from 751 CVW and I am preparing a status report which will go out shortly.

11/12/10 − spill re−assigned from Tibbe to Joe O'Connell.

12/19/11 − Raphael Ketani. Due to a caseload realignment, I have been given this spill and PIN case and have restarted it. The spill case was opened when VOCs and SVOCs were discovered in the soil and groundwater in 2/1/2005. The case seems to have several

names: Parking Garage at 173 East 156th Street; 751 Concourse Village West; 180 East 156th Street (separate site across the street); and Motthaven SCA. The SCA plans to build 4 schools on the site.

I spoke to one former case manager, Jeff Vought. He said that the Motthaven SCA site has nothing to do with this spill case.

I checked Property Shark and ACRIS for the ownership information. There is a deed dated 3/4/96. The main address is 751 Concourse Village West, 10451. The alternate address is 173 East 156th Street. The block and lot are 2458 and 132. The owner is Matel Realty LLC c/o Penta One, 303 East 6th Street, NY, 10003.

I checked the PBS registration. It is #2−610694. There is a 4,000 gal. UST with gasoline. The owner is Stuart Rubinfeld (212) 674−0950.

The former DEC project manager, Mark Tibbe (315) 793−2747, is familiar with the case. I tried to contact him, but I could only leave a message.

The contact person is the consultant at MC Environmental LLC. He is Michael McEachern (m−kay−hern), CPG (631) 321−4500/cell (516) 242−4981.

12/20/11 − Raphael Ketani. I reviewed the 11/19/10 MC Environmental LLC RIWP and drafted a response letter for the review of the legal division.

12/21/11 − Raphael Ketani. The letter was approved and was sent out to Mr. Rubinfeld.

12/22/11 − Raphael Ketani. Today I spoke by phone with Dave Lorthioir of EnviroTrac (631) 924−3001 regarding the site. He said that EnviroTrac is still involved in the project. They sample only the wells that they have installed and MC Environmental samples only the wells that they installed. Mr. Lorthioir said that their sampling takes place quarterly and they did do EFRing last year. There was a steep slope from the garage down to the east to the SCA location. SCA partially filled in this area with unknown material and constructed a retaining wall. There is still a slope, but it is not so steep. In some places, it is estimated that there is 30 feet of fill. It is believed that the retaining wall is in the groundwater and they also found out that the SCA put in water proof walls for the school. So groundwater is following the fill due south. MW−27 and MW−28 had oil. He said that there were two sets of gasoline USTs. MC Environmental was told where they were, but didn't dig there. They dug at another location inside the building and claimed that there were no tanks. MW−22 was installed by EnviroTrac and has high groundwater contamination. A report for 2010 and a report for 2011 will be sent to the DEC soon.

1/4/12 − Raphael Ketani. I received CAP 31 for EnviroTrac. The bill is DC2002.01−54 for the period 10/31/11 to 11/27/11. The date of the invoice is 12/8/11. The work consisted of project management, project coordination, writing status reports, revising groundwater maps, data tables and other documents, and work on requested documents for DEC. I found the pay package to be acceptable and notified Steve Karwiel by e−mail.

1/6/12 − Raphael Ketani. The Interim ISR was sent to Dennis Farrar of DER Albany.

1/11/12 − Raphael Ketani. Mr. McEachern (631) 321−4500/cell (516) 242−4981 called in response to the DEC 12/21/11 comment letter. His responses were:

1) The vent is on the side of the building and is similar to a vent pipe for a private home small oil tank. He said that he wasn't sure where it lead to, but it's outside the hatchway to the small basement. There is door inside the garage that may lead to the small basement, but they haven't found the key. I told him to get a locksmith and get the door open and see what is in the basement, or get a camera with a long probe or a small robot. Mr. McEachem said that he will look into the matter. Also, he said that a hydraulic lift with an above ground tank had been removed from the garage and 4 275 gal. ASTs. All of the work was done in 2006 and 2007. 2) He said that Sarah Carlson had been present when the old patch was excavated, but no tanks were found. There are a lot of old patches. The floor is in bad shape. 3) He will send the EDR report. 4) Mr. McEachem said that wells GW−1 and MW−18 were downgradient to the 4,000 gal. UST. So more wells do not need to be put directly downgradient to this tank. I told him that the other wells indicated in item #4 must be installed. He said that they will be. 5) He said that the SCA buildings are on stilts and they don't want wells drilled on their property. I told him that I'll hold off on this issue. 6) He agreed with this item. This is how they operate. 7) The collection system will be put on hold. 8) Mr. McEachem agreed to this item. 9) He proposed to do low flow sampling until the water parameters stabilized. I told him that this will be fine. He added that there is a hydrosleeve device that can be used for obtaining samples from slowly recovering wells. He would like to use this device and he will send me the literature. I told him to send it. He was alright with items #10 and #11.

Lastly, I asked him why MC Environmental doesn't take over all of the well sampling. He said that some time ago, Mr. Urda of DEC and his client's lawyer worked out a deal whereby EnviroTrac would be responsible for the off site wells associated with 180 East 156th Street and MC Environmental would be responsible for the on site wells. He added that his client didn't want to be responsible for the contamination that's in two of the wells at 180 East 156th Street. This is not from his client's spill. With that, the conversation ended.

Mr. McEachem sent me the web link for the HydraSleeve. It's a thin, clear, plastic tube that simply hangs in the well. It holds one liter of liquid.

1/17/12 − Raphael Ketani. Mr. Lorthioir sent me the 1/16/12 EnviroTrac 2010 Status Report. I reviewed the report. Wells MW−24 and MW−27 have had product. Well MW−24 on 4/27/10 and MW−27 on 1/29/10, 4/27/10 and 8/30/10. A total of 800 gallons of mixed liquids was veferred from these wells. The product content is estimated at about 10%. The product was fingerprinted to be gasoline. As per a prior agreement, only VOCs are tested for.

1/29/10 round groundwater sampling results: MW−8, MW−23 had high exceedences; MW−26 and MW−28 had low to moderate exceedences 4/27/10 round groundwater sampling results: MW−8, MW−22 to MW−24, MW−28 had high exceedences 8/30/10 round groundwater sampling results: MW−8, MW−22 to MW−24, MW−28 had high exceedences −this round had by far the highest contaminant concentrations of any round during 2010

EnviroTrac recommends installing additional test pits and borings at the site, investigating the basement and the fuel oil tank, installing wells along the northern boundary of the site, and investigating the utilities for product and looking for foundation cracks at the site. They would also like to contact the NYC SCA and find out whether the plume extends beyond the retaining wall. I gave them the phone number of the SCA consultant, Drew Pardus (646) 577−8280. I approved all of their recommendations and sent an e−mail stating this.

1/18/12 − Raphael Ketani. Mr. Lorthioir contacted Mr. Pardus by e−mail. Mr. Pardus responded back that he was not the project manager, but he will pass the message along to the person in the SCA who is.

1/23/12 − Raphael Ketani. Steven Goldberg of the SCA sent me an e−mail stating that the groundwater analytical data for the

school site across the street can be obtained from Sondra Martinkat of the DER brownfield program at Region 2 DEC.

1/30/12 − Raphael Ketani. I received CAP 32 for EnviroTrac. The bill is DC2002.01−55 for the period 11/28/11 to 1/1/12. The date of the invoice is 1/16/12. The work consisted of project management, writing the 2010 monitoring report, collecting data for EFRing events, editing of the monitoring report, updating CADD figures, reviewing the report, calls and e−mails to DEC. I found the pay package to be acceptable and notified Steve Karwiel by e−mail.

1/31/12 − Raphael Ketani. A scheduled field meeting took place at the site today. In attendance were Dave Lorthioir from EnviroTrac (state contractor), his assistant, and Michael McEachern of MC Environmental. When I arrived Mr. McEachern was collecting product from MW−27 at the corner of Concourse Village West and East 156th Street. Next, we entered the parking garage. Mr. Lorthioir showed everyone around the garage. It was packed with cars. Mr. Lorthioir pointed out the fluid gauges on one column along the east side of the garage. He showed me where the fill line runs under the floor and to where the gas USTs used to be under the garage. Next, we went to the southwest corner of the site. There, we saw two very old gas dispensers that were on a small elevated platform. The piping for the dispensers was still connected, but they did not look like they had been used in a very long time. Mr. Lorthioir stated that a GPR survey had been done for the site, but no other tanks had been found. A long pipe was discovered that ran the length of the garage and which had been attached to the 4,000 gal. UST which used to be under the southeast corner of the adjacent outdoor parking lot. Next, we discussed where borings and wells should be placed. Mr. McEachern took out a map and pointed to locations where borings had previously been done. He then marked on the map where more borings and wells should be installed. I agreed with him that these looked like good locations for borings and wells. I told him to send the DEC a plan indicating where MC Environmental wanted to install them. He agreed to do this. Everyone then walked along East 156 Street. Once we were past the school campus, we could see the steel stilts that the buildings had been constructed on and the railroad tracks. It appeared that the schools were sitting on a platform which was 30 feet above the ground. Mr. McEachern said that this was because the the bedrock dipped sharply to the east from Franz Sigel Park to the west of the Grand Concourse. Mr. Lorthioir commented that there was probably 30 feet of fill between the schools and the site. He pointed out that the retaining wall ran north−south under the sidewalk and consisted of a wall which was constructed of very large natural stone blocks. We talked a little more about the site and what should be done and the fact that no other tanks had been found under the site. Lastly, Mr. McEachern pulled out some photos of the partial basement where the fuel oil tank was. The tank appeared to be encased in a concrete jacket and had a gauge connected which read that the tank was empty. I asked Mr. McEachern whether any oil was seen on the floor of the basement and whether there were any oil odors. He said that there were no odors, nor any free product. Mr. Lorthioir stated that the analytes in the groundwater suggested gasoline contamination, not #2 oil contamination. I told him that the DEC agreed and I stated that we didn't see a need to pursue an investigation of the tank system. After this, Mr. McEachern stated that he will send the DEC a work plan for doing the additional borings and wells in the garage. Then the meeting broke up.

2/21/12 − Raphael Ketani. I received CAP 33 for EnviroTrac. The bill is DC2002.01−56 for the period 1/2/12 to 1/29/12. The date of the invoice is 2/13/12. The work consisted of project management and coordination, update CADD figures and file, 2010 report edits and revisions, revised 2010 report as per project manager's edits, submitted report to DEC, tabulated data and information for 2011 Status Report, update 2011 Status Report, preparation for site meeting with staff from MC Environmental, travel to and from site, attend site meeting, gauge and sample 11 wells and collect product from one well, use of low value equipment, light duty vehicle, sonic interface probe, submersible pump, collection of fluids by AARCO and purchase of supplies. I found the pay package to be acceptable and notified Steve Karwiel by e−mail.

2/27/12 − Raphael Ketani. Today I received the 2/23/12 Test America analytical report for the groundwater samples collected on 1/27/12. The samples collected were from MW−8, MW−9, MW−18, MW−20 to 22, MW−24 to 26, and MW−28. The samples from MW−18, 20, 21, 25 and 26 had very low results well below CP−51 standards. The rest of the samples had high total xylene and

1,2,4−trimethylbenzene hits in the thousands of ppb (with other elevated hits). In particular, MW−8 had 3500 ppb total xylenes, MW−22 had 13,000 ppb total xylenes, MW−24 had 3800 ppb total xylenes, and MW−28 had 3000 ppb total xylenes.

3/23/12 − Raphael Ketani. I received CAP 34 for EnviroTrac. The bill is DC2002.01−57 for the period 1/30/12 to 1/31/12. The invoice date is 3/9/12. The work consisted of traveling to and from the site and meeting with a representative of the DEC and the responsible party, and use of light duty vehicle. I found the pay package to be acceptable and notified Steve Karwiel by e−mail.

3/23/12 − Raphael Ketani. I received CAP 35 for EnviroTrac. The bill is DC2002.01−58 for the period 2/1/12 to 2/26/12. The invoice date is 3/14/12. The work consisted of project management, project coordination, updating the site report, a call to the property owner's consultant, and tabulation of the lab data. I found the pay package to be acceptable and notified Steve Karwiel by e−mail.

4/23/12 − Raphael Ketani. I received CAP 2 for TestAmerica. The bill is 46181479 for the period 1/31/12 to 2/29/12. The invoice date is 3/1/12. The work consisted of processing groundwater samples that were collected at the site. I found the pay package to be acceptable and notified Andrea Indelicato by e−mail.

4/26/12 − Raphael Ketani. I received CAP 35 for EnviroTrac. The bill is DC2002.01−59 for the period 2/27/12 to 4/1/12. The invoice date is 4/17/12. The work consisted of project coordination, working on the summary report, updating the data tables, ordering glassware, travel to and from the site and parking fees. I found the pay package to be acceptable and notified Steve Karwiel by e−mail.

5/18/12 − Raphael Ketani. I was contacted by e−mail by Michael Sherwood, Senior Project Manager, TRC Solutions, 1430 Broadway, 10th Floor, New York, NY 10018, (212) 221−7822 x105, MSherwood@trcsolutions.com. He wanted to know what was the status of the site. He said that TRC attends community meetings and they always want to know whether the contaminated groundwater from under the garage is being addressed. The parents are concerned that the contamination is going under the schools. I explained to him that only groundwater monitoring and sampling were taking place. A plan to install more wells was being written by MC Environmental. I asked him what types of analytes TRC was seeing in their wells within the school property. He said that there was some PCE, but nothing much else as the engineering controls were keeping the contaminated groundwater from migrating below the schools. I told him Sondra Martinkat from our office had sent me the Shaw Environmental March 2012 Semi−Annual Groundwater Monitoring Report for the Mott Haven schools site. He had no comment. With that, the conversation ended.

I reviewed the Mott Haven schools site March 2012 Semi−Annual report. Well MW−24 had 14 ppb of PCE. There was a low benzene hit in another well, but all of the other results were non−detect. Groundwater flow was to the south across the site.

Next, I contacted Dave Lorthioir of EnviroTrac (631) 924−3001. I asked him whether he had heard from Michael McEachern of MC Environmental (631) 321−4500/cell (516) 242−4981 regarding the boring and well work plan. He said that he hadn't.

I contacted Mr. McEachern (m−kay−hern) regarding submission of the work plan. He said that he had sent it in February 2012. I told him that I had never received it. He said that he had never received a response e−mail from me stating I had received the plan. Nor had he received an e−mail indicating that the e−mail had been kicked back. I told him that there may be a server filtering problem on my end. I asked him to send the plan as a hard copy and I will take a look at it. Mr. McEachern said that he will do this.

The owner is: Stuart Rubinfeld, Matel Realty LLC c/o Penta One, 303 East 6th Street, NY, 10003.

5/29/12 − Raphael Ketani. I received CAP 37 for EnviroTrac. The bill is DC2002.01−60 for the period 4/2/12 to 4/29/12. The invoice date is 5/15/12. The work consisted of project coordination and management, working on the annual report and report revisions, reviewing the lab data, data tabulation, working on the gradient maps, and working on the figures and tables. I found the pay package to be acceptable and notified Steve Karwiel by e−mail.

6/20/12 − Raphael Ketani. I received CAP 38 for EnviroTrac. The bill is DC2002.01−61 for the period 4/30/12 to 5/27/12. The invoice date is 6/11/12. The work consisted of project coordination and management, working on the draft 2011 annual report and data updating, finalizing the report and outside report review. There was an invoice included from AARCO for contaminated water collection in February 2012. I asked Mr. Lorthioir about the very late invoice. He said that they always receive very late invoices from AARCO. I saw a stamped date by EnviroTrac indicating that they had received the invoice on May 9, 2012. I found the pay package to be acceptable and notified Steve Karwiel by e−mail.

6/21/12 − Raphael Ketani. I started my review of the MC Environmental, LLC Remedial Investigation Work Plan dated March 2012. Staff from Penta One Realty entered the boiler room through the outside manway doors on 1/20/12. The boiler room is at the northeast corner of the building and near where the 4,000 gal. UST used to be. They discovered a 2,000 gal. AST that was empty and didn't appear to have leaked. They also saw other product management equipment that was associated with the tank. There were no signs of leaks in the boiler room.

Product had been seen in well MW−27. VEFRing took place until 10/20/10 as the product thickness was less than 0.3 feet. On 12/10/10, the product thickness was 0.08 feet. A product skimmer was then installed in the well on 3/15/11. MW−22 and MW−28 continued to have groundwater with BTEX. MW−22 continued to have high concentrations.

Penta Realty will monitor wells MW−9, 18, 22, 27, and 28, and GW−1 and GW−2. The groundwater sampling will be quarterly. Penta Realty will install wells within the garage footprint. Three (3) wells are also planned along the east side of Concourse Village West. They will use a low flow sampler to collect the groundwater samples.

I determined that the Remedial Investigation Work Plan was deficient and composed a draft letter with the following comments:

1) Despite the use of a low flow device to collect groundwater samples, three volumes of groundwater must be purged from each well before sampling;

2) Groundwater sampling should take place no sooner than 30 days after well development;

3) Wells must be installed at the locations depicted on the attachment figure;

4) Soil borings must be performed in the area designated by the Department which is depicted on the attached figure. Where borings cannot be performed due to structural concerns, then test pits must be excavated;

5) The tank system in the basement must be tightness tested to see whether any part of the system had lost integrity in the past;

6) As there is an unregistered 2,000 gal. AST on site, Penta One Realty, LLC is in violation of 6NYCRR Part 612ˇ registration of petroleum storage facilities. This tank must be added to PBS #2−610694 and its status indicated. Additionally, the former 550 gal. gasoline USTs must also be registered;

I also attached a figure showing where the DEC wanted wells and borings to be performed and a copy of Mark Tibbes's 3/16/10 letter stating that they are responsible for monitoring wells both on site and across West 156th Street. MC Environmental has until July 27, 2012 to submit a revised work plan.

6/25/12 − Raphael Ketani. The letter was approved by Hassan Hussein and sent out.

The correct owner's info is: Stuart Rubinfeld, Penta One Realty, LLC, 303 East 6th Street, NY, NY, 10003, (212) 674−0950

His lawyer is: Louis Evans, Esq., Herrick, Feinstein, LLP, 2 Park Avenue, New York, NY, 10016, (212) 592−1533

Mr. Lorthoir of EnviroTrac was sent a draft of the DEC response letter regarding the MC Environmental March 2012 RIWP. He responded with an official EnviroTrac comment and suggestion letter.

Dave Yudelson (917) 295−6449 of Sive Paget & Risel called. He said that he will be the new attorney for the site. I filled him in on the case history, the problems at hand and what the DEC wanted Penta One Realty to do.

7/12/12 − Raphael Ketani. Mr. Yudelson called me today. He said that he was at the site very recently and did an initial inspection. He said that there are 3 vent pipes on the roof and he believes that they lead to 3 individual USTs which are in separate locations. He also stated that he believed there was a holding tank near the dispensers and that this tank leaked and resulted in the free product that is seen in the one onsite well. However, he did not believe that the contamination detected in the wells south of East 156th Street was from the site. Lastly, he said that Mr. McEachern was working on the work plan.

7/19/12 − Raphael Ketani. I sent an e−mail to Mr. Yudelson that the NYC SCA and their consultant, TRC, were willing to allow their on site wells (at the school across the street from the site) to be sampled as part of the investigation and monitoring. The contact at TRC is Mike Sherwood (212) 221−7822.

7/26/12 − Raphael Ketani. I was informed today by staff in DER Region 2 that the site investigation can be extended into the school property across the street. I was informed that a test pit was dug under one school (the schools stand on 20 foot tall stilts) and water with a sheen was discovered. This was right across the street from the southeast corner of the parking garage. Also, I was told that the consultants for the parking garage can use the on site school wells to monitor the migration of the contaminated groundwater and can install their own wells. There was also some misunderstanding regarding the location of the end of the concrete barrier wall that runs along the east side of Concourse Village West. I was told that it ends about 40 feet south of the intersection of East 156th Street and Concourse Village West. At this location, it is met by a steel sheet pile wall which extends east under the school site, but ends at a monitoring well (see drawing in e−docs). So there is no barrier to the eastward movement of the contaminated groundwater from the site. I was also informed that the community is informed during regular public meetings about the environmental conditions and they are very concerned about the contamination that is coming from the parking garage.

I sent an e−mail to Mr. Yudelson and Mr. Lorthioir informing them of the latest information. I asked Mr. Yudelson to have the consultant design the site investigation such that it includes the school property. I added that the groundwater should be tested for the expanded list of VOCs and that the Department must receive monthly groundwater gauging and product collection reports. My sketch of the site vicinity and conditions was included in the e−mail.

7/30/12 − Raphael Ketani. I received CAP 39 for EnviroTrac. The bill is DC2002.01−62 for the period 5/28/12 to 7/1/12. The invoice date is 7/11/12. The work consisted of project coordination and management, data entry, update report, calls to lab and owner and AARCO, sample bottle preparation, field preparation, gauge, purge and sample 10 wells, sample management, travel to and from the site, use of light duty vehicle, low value equipment, sonic probe and submersible pump, purchase of supplies. I found the pay package to be acceptable and notified Steve Karwiel by e−mail.

8/1/12 − Raphael Ketani. Mr. Yudelson (917) 295−6449 called. He said that the work plan will be submitted by August 17. Right now, he is gathering all of the information regarding the site, and the former gas station to the south. He will talk to Mr. Sherwood and get access to the wells under the schools in order to sample them and see what is going on.

8/8/12 − Raphael Ketani. I received CAP 7 for TestAmerica. The bill is 46187018 for the period 6/25/12 to 7/31/12. The invoice date is 7/31/12. The work consisted of processing 10 groundwater samples that were collected at the site on 6/25/12. I found the pay package to be acceptable and notified Andrea Indelicato by e−mail.

To date, I have not received word from MC Environmental or from Mr. Yudelson that MC has taken over the groundwater monitoring and product recovery duties from EnviroTrac.

8/10/12 − Raphael Ketani. Mr. McEachern (m−kay−hern) sent me the August 2012 Remedial Investigation Work Plan (RIWP), a table of groundwater elevations and product thickness values, and a response letter, dated 8/3/12, to the DEC letter dated 6/25/12. I began my review.

The first document reviewed was the RIWP. Brookside Environmental started EFRing MW−27 on 7/1/10. They were EFRing once a month. EFRing was suspended when the product thickness became less than 0.3 feet. The thickness dropped to 0.08 feet by 12/10/10. Penta One Realty had a passive collection device installed during July 2010.

Penta One will continue to monitor wells MW−9, 18, 22, 27 and 28, GW−1 and GW−2 quarterly for water levels and free product. Cumulative product removal will also be recorded. If free product is found, then EFRing will begin. If the wells that are across the street and under the school are useable, then they will be included in the monitoring array.

During the first part of this phase of the project, 4 new wells will be installed. Three (3) off site wells are proposed for the second phase of the work in order to investigate the downgradient extent of the gasoline contamination. A utility survey will be done in order to determine whether installing off site wells is feasible. GPR and MAG surveys will be done before drilling in the garage. Markouts will be performed. Soil borings will be performed in the area marked by the DEC in the attachment to their 6/25/12 letter. The small, above ground concrete tank or sump along the interior of the southern side of the garage will be demolished and the piping inspected. The new and current wells will be tested for hydraulic conductivity via slug tests.

Designing the free product collection system will require further delineation. The new wells will be sampled quarterly and gauged. Low flow groundwater sampling will be used.

The 2,000 gal. oil AST in the basement will be integrity tested. The 2,000 gal. gasoline UST that was removed in 2008 will be registered, as will the 2,000 gal. oil AST in the basement. However, there is no information regarding the gasoline USTs that were under the garage floor, but which have been removed. MC Environmental requested help from the DEC for finding information about these tanks and registering them.

A report will be submitted with the investigation results and monitoring data.

Next, I reviewed the 8/3/12 letter from Mr. McEachern. Low flow sampling will take place. The monitoring schedule will be weekly for one month. The seocnd month will be biweekly and, after this, the monitoring will be monthly. Groundwater sampling will take place no sooner than 30 days after well development. Wells will be installed as depicted in the attached sketch to the DEC 6/25/12 letter. Soil borings will also be performed in the area depicted in the attachment. The AST in the basement will be tightness tested. The 2,000 gal. UST that was removed during 2008 will be registered, as will the gasoline tanks that were previously removed. MC Environmental will contact the consultant for the schools across the street and arrange to sample their wells and use them as part of the monitoring array. A table with groundwater elevation data and product data was included with the e−mail.

The majority of Mr. McEachern's letter concerned the request by the DEC to also monitor wells on the site of 180 East 156th Street. Mr. McEachern said that this was counter to the agreement that was established with the previous DEC case manager, Mark Tibbe, during 2010. Additionally, he thought that an agreement was also reached during the field meeting in January 31, 2012 whereby Penta One Realty was only supposed to monitor on site wells and the DEC would monitor everything else. This was a completely unexpected and unjustified reversal of those agreements on the part of the Department. Also, he stated that the groundwater contamination under 180 East 156th Street was from this location, not the site. He added that requiring Penta One Realty to extend the monitoring and responsibility for the contamination off site was unjustified. Mr. McEachern stated that, given the years of groundwater data, we do not believe that weekly and or monthly monitoring has a scientific basis nor is such a protocol found anywhere in DER−10.

In response to my review of the August 2012 RIWP and the 8/3/12 letter, I drafted a letter for the review of Mr. Hussein. In the review letter, I stated that:

1) Penta One Realty was being required by the Department to monitor the wells within the property limits of 180 East 156th Street as the source is believed by staff at the Department to be from the site. This is because there is free product in the upgradient wells, the dissolved contamination is highest in the upgradient wells and groundwater flow is south−southeast. EnviroTrac conducted two different GPR surveys of the site and didn't find any tanks or piping. Additionally, the Sanborn maps never indicated that USTs had ever been present under the facility. Also, Penta One Realty must monitor and sample the wells under the schools and wells GW−1, GW−1, MW−8, 9, 18, 20 to 28;

2) product collection must take place on a weekly basis until at such time it can be determined that longer collection periods can be established as no product will be lost from the site through normal groundwater flow or bypassing of the collector. I added that groundwater with elevated analytes must also be collected. These procedures were in keeping with standards environmental practices. In his 8/3/12 letter, Mr. McEachern stated that this was not in keeping with DER−10. I wrote that DER−10 is just guidance, and, if he wants to, he can refer to Part 375;

3) the 2,000 gal. gasoline UST, the 2,000 gal. oil AST and the four 550 gal. gasoline USTs must be added to registration number 2−610694, which already shows the 4,000 gal. UST that was also removed. I added that Penta One Realty should put on the registration form whatever information they have on the 550 gal. USTs and that this, at a minimum, should include the tank capacity, that it is underground, date of removal and that each tank was closed and removed;

4) in addition to performing soil borings in the area indicated on the map that was attached to the DEC 6/25/12 letter, four soil borings must also be performed within an area bordered by MW−22, planned well GW−2 and the two supporting posts which have

petrometers mounted on them. I stated that this was because the 1952 and later Sanborn maps indicated the presence of four 550 gal. USTs in this location. Also, I wrote that a well must be installed midway between MW−22 and MW−27;

5) the integrity test should be for the whole tank system, not just the tank. The test should be first done at the remote fill. If there is a failure, then each part must be isolated and tested separately until the failure is found. The DEC must receive the test report;

6) lastly, I included the name and phone number of the schools' contractor, Michael Sherwood, Senior Project Manager, TRC Solutions, 1430 Broadway, 10th Floor, New York, NY 10018, (212) 221−7822 x105, MSherwood@trcsolutions.com.

I ended the letter by stating that Penta One was in violation of the STIP and Article 12 of the Navigation Law. A revised work plan deadline was set for September 21, 2012.

8/22/12 − Raphael Ketani. I received CAP 40 for EnviroTrac. The bill is DC2002.01−63 for the period 7/2/12 to 7/29/12. The invoice date is 8/8/12. The work consisted of tabulating data from the June 2012 sampling event, inputing new data into the annual report and working on the annual report. I found the pay package to be acceptable and notified Steve Karwiel by e−mail.

8/24/12 − Raphael Ketani. Mr. Hussein approved the review letter regarding the August 2012 RIWP and the 8/3/12 MC Environmental rebuttal letter. The letter was sent out today.

9/7/12 − Raphael Ketani. Abbey Yaghoubi (212) 426−8400, owner of A Z Business (the owner of the parking lot at 180 E. 156 Street) called today. He said that a City DOT inspector was at the parking garage property and was ready to issue fines for two cracked sidewalk flags on his property. Mr. Yaghoubi stated that the flags were cracked when EnviroTrac installed their wells. I told Mr. Yaghoubi that I would contact our contractor and have them repair the flags.

9/11/12 − Raphael Ketani. Mr. Lorthioir sent me an e−mail stating that he will meet Mr. Agubbi on 9/13/12 at the site to look over the sidewalk flags.

9/14/12 − Raphael Ketani. Mr. Lorthioir called me back regarding the sidewalk flags. He said that the area in question is NOT next to the parking garage, but is next to the parking lot. There are four flags in a row that have cracking. The wells in these flags were put in by the School Construction Authority for their project. Mr. Lorthioir surmised that either the vibration from installing the wells or the vibration from installing a groundwater barrier caused the retaining wall to move and so the sidewalk was cracked. Years ago, the SCA was told about the cracked flags and came and repaired them simply by pouring concrete. However, Mr. Lorthioir said, the job was poorly done and the concrete sticks up a bit. I told Mr. Lorthioir that this is an SCA issue and that he should have Mr. Agubbi contact Lee Guterman (718) 472−8502, Dep. Dir. Division of Industrial Health and Safety for the SCA, and Sondra Martinkat, EE II (718) 482−4891, project manager for the school environmental investigation project at this location. Mr. Lorthioir said that he will do this.

9/21/12 − Raphael Ketani. Mr. Yudelson sent a rebuttal letter dated 9/21/12 to the DEC 8/24/12 letter requesting various work from the responsible party. I reviewed the letter, but it DID NOT seem to state that the responsible party was refusing to do the work. So I didn't respond back.

9/24/12 − Raphael Ketani. Mr. Yudelson (917) 295−6449 sent me some Sanborn maps and copies of the Certificates of Occupancy for the neighboring site that is across East 156th Street and downgradient. The maps indicate that 180 E. 156th Street was a filling

station. However, no tanks are indicated. The Certificates of Occupancy date from 1/19/50 to 1/15/65 and indicate that the facility is a filling station, has metal spaces for storing cars, and is allowed to do minor repairs, but nothing more.

10/1/12 − Raphael Ketani. I sent Mr. Yudelson a rebuttal e−mail stating that Yes, the site is shown as a filling station on the Sanborns, but no tanks are depicted as they are for 173 E. 156th Street. Also, the GPR surveys were done which didn't find any tanks or their associated piping and there was no soil contamination, just groundwater contamination. So this suggests that the contamination traveled from upgradient and didn't originate at 180 E. 156th Street.

I reminded Mr. Yudelson that the DEC still expects the owners of the parking garage to do the additional investigative work and to conduct groundwater monitoring.

10/1/12 − Raphael Ketani. I received CAP 41 for EnviroTrac. The bill is DC2002.01−64 for the period 7/30/12 to 8/26/12. The invoice date is 9/13/12. The work consisted of project management, review documentation, review MC Environmental work plan and generate response, put together RIW, e−mailing documents and RIW to DEC staff, creating and updating CAD figures, sending site plan to draftsman, phone calls with DEC staff. I found the pay package to be acceptable and notified Steve Karwiel by e−mail.

10/18/12 − Raphael Ketani. I began my review of the revised MC Environmental August 2012 Remedial Investigation Work Plan. I included in the notes below only the technical aspects of the work plan. Not the history, which is already explained above, nor the inaccurate statements or commentary that were included in the work plan (see the correspondences in the e−docs).

Penta One will include wells MW−8, 9, 18, 22 to 26, GW−1 and GW−2 in the monitoring array, any additional wells the DEC is requiring to be installed and the wells on the school property as per DEC's 8/24/12 letter (In the letter, the DEC is requiring them to include and monitor wells MW−8, 9, 18, 20 to 28, and GW−1 and GW−2). They anticipate installing 7 new wells. The school property wells along Concourse Village West are MW−9 and MW−18. They stated that groundwater flow has been consistent, but they would not expect it to flow under the 180 E. 156th Street facility. (The Department has determined that the data supports the groundwater flowing from the site and under 180 E. 156th Street).

The 2,000 gal. AST in the boiler room below the garage will be tightness tested and registered. The four 550 gal. tanks which are or used to be under the garage will also be registered. However, Penta One stated that they believed the tanks were removed years ago.

On 2/16/10, product was found in MW−27. The product varied from 3.5 to 8 inches in thickness. A product collection device was installed. Product was collected from this well until 10/20/10 when the product thickness dropped to 0.3 feet. Product thickness declined to 0.08 feet by 12/10/10.

DEC will be notified if product is found in additional wells. Penta One will request access to the wells on the school property.

Based on discussions with the DEC on 1/31/12 and on the DEC 8/24/12 letter, Penta One will drill up to 7 additional wells on the garage property and 4 borings. Additional wells will be installed in the southeast part of the garage in order to find the source of the gasoline. Three (3) off site wells will be installed in the second phase of the work in order to investigate the downgradient extent of the gasoline spill and better determine groundwater flow. Sampling will take place at a minimum of 5 foot internvals to 5 feet below the water table. If no contamination is found, then the sample from 5 feet above the water table will be sent to the lab (They should send the sample that is directly above the water table). The samples will be analyzed for STARS list compounds (The list should be for CP−51 Table 2 and Table 3).

The small concrete tank or sump along the southern wall will be removed, along with its associated piping.

All new and existing wells will be tested for their hydraulic conductivity. The wells will be sampled quarterly for groundwater and water level measurements will be taken before sampling. If the well network is not adequate for determining the extent of the plume, then more wells may be installed to fill data gaps or track the effectiveness of the remediation efforts.

10/19/12 − Raphael Ketani. I was informed by staff from EnviroTrac that they will be out at the site on monday, 10/22/12, to sample the groundwater. However, they will not sample any wells that were installed by MC Environmental.

As regards the revised August 2012 Remedial Investigation Work Plan, I found it to be deficient. First, they do not mention that they will do borings in the area where the 550 gal. USTs used to be or still are, as had been requested in the DEC 8/24/12 letter. Additionally, Figure 2 of the work plan does not indicate performing borings in the southern part of the garage as had been requested in the DEC's 6/25/12 letter. Also, they do not mention monitoring and sampling MW−20 and MW−21 which are in the extreme south of the subject monitoring area. It was stated in the DEC 8/24/12 letter that they must monitor and sample these wells, too (include and monitor wells MW−8, 9, 18, 20 to 28, and GW−1 and GW−2). Lastly, they should send the sample that is directly above the water table, not 5 feet above, to the lab for analysis and the list of analytes should include those in Table 2 and Table 3 of CP−51.

I drafted and submitted a response letter for the review of Mr. Hussein.

10/22/12 − Raphael Ketani. Mr. Hussein and I discussed the contents of the letter. He approved the letter and it was sent out. A deadline of November 16, 2012 had been set for receipt of the revised work plan.

10/25/12 − Raphael Ketani. I received CAP 42 for EnviroTrac. The bill is DC2002.01−65 for the period 8/27/12 to 9/30/12. The invoice date is 10/12/12. The work consisted of traveling to and from the site in order to meet with the owner of the parking lot and discuss the broken sidewalk flags, reviewing old documents, phone calls to SCA staff, the parking lot owner and DEC staff, and use of light vehicle. I found the pay package to be acceptable and notified Steve Karwiel by e−mail.

11/15/12 − Raphael Ketani. Today I received the groundwater analytical results for the wells that were sampled on 10/22/12 by EnviroTrac. The data came in a report that was compiled by TestAmerica and dated 11/15/12. The samples were tested only for gasoline.

MW−8: ethylbenzene 520 ppb, 3 high double digit hits, the rest below to slightly above standards MW−22: total xylenes 12,000 ppb, 2 hits above 1500 ppb, 5 triple digit hits, 2 low exceedences MW−23: 6 hits in the low to high triple digits, the rest below to slightly above standards MW−24: total xylenes 4500 ppb, 2 hits above 1000 ppb, 5 low to middle triple digit hits, 4 hits from below to slightly above the standards MW−28: total xylenes 5100 ppb, 2 hits above 1000 ppb, 4 low to middle triple digit hits, 4 hits from below to slightly above the standards

The samples from wells MW−9, MW−18, MW−20, MW−21 and MW−26 were completely non−detect. MW−25 had only 3 very low hits and the rest was non−detect.

11/16/12 − Raphael Ketani. Today I received the revised Remedial Investigation Work Plan dated 11/16/12 from MC Environmental. The revision was in response to the DEC's 10/22/12 comment letter regarding the revised August 2012 RIWP. An additional 6 wells

will be installed on site. Three off site wells will be installed along Concourse Village West during the summer school recess. Wells located on the school property will also be sampled. The samples will be collected quarterly and will be tested via 8260 and 8270. However, if there are no SVOCs, then 8270 will be dropped. Wells 8, 9, 18, and 20 to 28 will be included in the monitoring array. The passive free phase skimmer in MW−27 will be monitored monthly.

I found the work plan to be acceptable and drafted a letter for the review of Mr. Hussein.

11/19/12 − Raphael Ketani. Mr. Hussein approved the letter and it was sent out today.

11/29/12 − Raphael Ketani. I received CAP 43 for EnviroTrac. The bill is DC2002.01−66 for the period 10/1/12 to 10/28/12. The invoice date is 11/14/12. The work consisted of project management and coordination, data evaluation and review, review records, prepare materials for groundwater sampling, calls to workers at the site, e−mail to DEC staff regarding the projectproduct recovery, performing a groundwater survey on 11 wells, traveling to and from the site, use of low value equipment, light vehicle, sonic interface probe, submersible pump, drum, and purchase of supplies. I found the pay package to be acceptable and notified Steve Karwiel by e−mail.

12/11/12 − Raphael Ketani. I tried to contact Mr. McEachern (631) 321−4500/cell (516) 242−4981 to find out when the investigative work will start, but I could only leave a voice message. I sent an e−mail to Mr. McEachern stating that if the work doesn't start by the middle of January 2013, then I will tell our contractor to start doing the additional investigative work. I also added that failure to perform the work is a violation of the Stipulation Agreement and is subject to fines and penalties.

Mr. McEachern responded by e−mail that he is getting ready to start the work soon. He will meet with the tank testing company, plans to demolish the concrete structures below the old dispensers, spoke to Mr. Sherwood regarding the wells below the school, and contacted the State's consultant to get the owner info for the site to the south. The tank testing and school site visit will happen this month. Drilling of the new wells and the soil borings will take place in January.

12/13/12 − Raphael Ketani. I received CAP 11 for TestAmerica. The bill is 46191039 for the period 10/22/12 to 11/30/12. The invoice date is 11/30/12. The work consisted of processing 11 groundwater samples that were collected at the site on 10/22/12. I found the pay package to be acceptable and notified Andrea Indelicato by e−mail.

I also reviewed the Test America 11/15/12 groundwater analytical report. The samples came from wells MW−8, 9, 18, 20 to 26 and 28. The sample from MW−22 continued to have very high concentrations of contaminants up to 12,000 ppb of total xylenes with many hits well above 1,000 ppb. MW−24 had hits up to 4,500 ppb of total xylenes along with 4 hits above 1,000 ppb. MW−23 had eight hits above 100 ppb, two of which were above 900 ppb. MW−28 had hits up to 5,100 ppb of total xylenes with four other hits above 1,000 ppb. The other 7 samples were almost entirely or entirely non−detect.

12/20/12 − Raphael Ketani. I received CAP 44 for EnviroTrac. The bill is DC2002.01−67 for the period 10/29/12 to 11/25/12. The invoice date is 12/11/12. The work consisted of project management and coordination, work plan review, e−mail to DEC staff regarding the project, prepare annual report charts, order glassware for next sampling round. I found the pay package to be acceptable and notified Steve Karwiel by e−mail.

1/10/2013 − Raphael Ketani. Mike Sherwood of TRC (the SCA's consultant; (212) 221−7822/cell (516) 650−5290) called regarding a call from Mr. McEachern. He said that Mr. McEachern wanted to use the wells below the schools to do downgradient monitoring for the parking garage. He also wanted to install wells below the school.

I told Mr. Sherwood that the DEC had approved a work plan that was submitted on behalf of the garage owner by Mr. McEachern (m−kay−hern). The plan included installing off site wells and doing off site monitoring. Mr. Sherwood said that he understood. I told Mr. Sherwood that the DEC had been notified that oil was discovered in a pit below the school. Mr. Sherwood stated that the SCA was doing plumbing upgrades and so they were digging pits below the school for the installation of house traps and other equipment. While digging the western most pit, they encountered water with an old gasoline odor and sheen. The groundwater is 4 feet below grade. Mr. Sherwood said that he assumes the contamination is from the parking garage. I told him that there is one well downgradient from the USTs below the garage that consistently has weathered gasoline. Mr. Sherwood said that there are two wells under the school which could be used for monitoring. All of the other wells were abandoned when a 50 foot by 60 foot solidified area was constructed below the school in order to protect the retaining walls, the hydraulic barriers and the pile caps. Mr. Sherwood added that Mr. McEachern can put a well just off of the northeast corner of this solidified area. I asked Mr. Sherwood whether there was enough overhead room to put a rig. He said the clearance is 22 feet. He added that he thought the groundwater was flowing around this solidified area. I asked him when Mr. McEachern could install the well. He said that he will have to talk to the SCA to get permission. I told him that would be fine.

I contacted Mr. McEachern (631) 321−4500/cell (516) 242−4981 regarding whether the approved remedial work was taking place. He informed me that the tank test for the fuel oil AST and removal of the conrete sump and pump islands will take place on about 1/19/13. A geophysical survey will be conducted the week of the 21st in the supposed gasoline UST area and then they will do the well installations. I told him that sounded alright.

1/11/13 − Raphael Ketani. Abbey Yaghoubi (212) 426−8400, owner of A Z Business (the owner of the parking lot at 180 E. 156 Street) called yesterday. I tried to return his call, but could only leave a voice message with his nephew Kevin.

Moe Yaghoubi (212) 426−8400 (brother of Abbey) called. He said that he wanted all of the documentation that was available for the parking garage. I told him to make a FOIL request. I asked him why he wanted these documents. He said that he and his family were going to develope their parking lot and so a Phase I and Phase II will be done. He asked what was happening at the parking garage. I told him about the latest approved work plan and that the work will take place this month. I also told him that some of the reports indicate that there is contamination below his property. He said that he never had any tanks or piping related to fuel management. I told him that we would like to know if his consultant finds anything below ground in the way of a fuel management system, or remnants of such a system. He said that he will let me know. Mr. Yaghoubi asked to be kept informed regarding progress at the parking garage (myumdc@gmail.com).

1/17/13 − Raphael Ketani. Mr. Sherwood called. He said that he met with Mr. McEachern and showed him the barriers for preventing the migration of contaminants onto the site, the plumbing pit and the location of 2 wells that were from the 2005 remedial investigation for the schools site. Mr. McEachern stated to Mr. Sherwood that he will do the work that the State requires as soon as the work plan is approved. (The work plan was approved 11/19/12 − note by R. Ketani.)

1/18/13 − Raphael Ketani. Mr. McEachern called to say that he had met with Mr. Sherwood regarding the school site. He also stated that the integrity test for the AST in the partial basement will take place tomorrow. The vent and fill pipe will be removed or plugged after the testing. The concrete sump in the back of the site will also be removed tomorrow. ADT (drilling company) will hire a geophysical company to do a survey of the areas that will be drilled. The survey will take place the week of January 28th.

1/22/13 − Raphael Ketani. I received CAP 45 for EnviroTrac. The bill is DC2002.01−68 for the period 11/26/12 to 12/30/12. The invoice date is 12/30/12. The work consisted of project management, e−mail to DEC staff regarding the project and calls to the

owner of the property across the street and to MC Environmental, tabulate data, work on gauging chart and status report and annual report. I found the pay package to be acceptable and notified Steve Karwiel by e−mail.

Later, Mr. McEachern called me. He said that the tank in the partial basement is much larger than they had thought. He believed it was a 5,000 gal. AST. It's in a concrete vault with weep holes at the bottom. I told him that this tank has to be registered. He said that it will be registered. Mr. McEachern went on to say that the initial integrity test did not go well. They had closed all of the valves. The vent pipe was badly rusted where it passed through the sidewalk. So they cut off the vent, tried to seal the end of the pipe and conduct the test again. The test still didn't pass. They will go back next saturday (January 26) and try to test again. He said that there are all kinds of pipes passing in and out of the tank. He believes that the tank had once held #6 oil as there is solidfied oil in a bucket next to the tank and there are pipes inside the tank for heating the oil. I suggested cutting off all of the piping, plugging them and then doing the test. He said that this was an idea, but that some pipes had asbestos. I told him that he should get a licensed contractor to remove the asbestos and then cut off the pipes. Mr. McEachern (m−kay−hern) told me that there were no stains at the weep holes. So he didn't believe that the tank had ever leaked. I asked him whether the tank was on the ground. He said that he didn't know. I asked him whether the tank had product or was ever cleaned out. He said that there was no product, but there may be sludge. I told him that as a last ditch measure to determine the integrity of the tank, he could cut open the tank, clean it out and have someone inspect the tank from the inside to determine whether any signs of leakage could be determined. Mr. McEachern said that this was possible, but that it may not give us answers. I told him this may be all that one can do with an old tank which can't be tested.

After this, I asked him when the geophysical testing will take place. Mr. McEachern said that he wanted to have the testing done tomorrow (January 23). However, the insurance has to be in place and the cars have to be moved. He just wasn't sure. I asked him to let me know as soon as he knows when the testing will take place. He said that he will.

Later, Mr. McEachern sent me an e−mail stating that the geophysical work will definitely take place tomorrow.

1/24/13 − Raphael Ketani. Mr. McEachern (631) 321−4500/cell (516) 242−4981 called to give me an update. Most of the geophysical work took place yesterday. There is one area of the garage that still needed to be surveyed. So the geophysical crew is going there today to finish up. The survey did not find any additional features or structures compared to previous surveys. No tanks were found.

Another attempt will be made to integrity test the AST in the partial basement. Dry As A Bone will attempt the test on January 26. They will try to seal or plug all of the piping to the tank. Mr. McEachern asked whether he can stick the tank , if the testing does not succeed. I asked him why he wanted to do this. He said that he has to open the tank anyway to see whether there is oil inside. If he doesn't find product or if the product is completely solidified, then the tank can be considered as not an environmental threat after all. I told him that the DEC will accept this alternative approach for the site. He added that the fill port will be plugged with concrete and vent pipe will be cut off and plugged with concrete.

Lastly, Mr. McEachern stated that the drilling rig for the job is in Connecticut and is disabled due to leaks. So it will not be brought to the site by the scheduled date of January 28. He would like to reschedule the drilling for February 4 once the rig is repaired. I told him that this would be fine.

2/5/13 − Raphael Ketani. Mr. McEachern called. He said that his crew has been installing the planned wells with a sonic rig and things are going well. However, the installation of the two wells along the west wall of the garage did not yield any signs of contamination. They cut through about 29 feet of soil and it appears that the rock slopes steeply under the garage. Mr. McEachern

said that, in light of the previous 2 clean borings, he didn't see a need to install the well outside the northwest corner of the garage. I told him that he didn't need to install this well as the other two were also upgradient and appeared to be in clean soil and bedrock.

2/6/13 − Raphael Ketani. Mr. Lorthioir called with an update. He said that his technician was at the site during the drilling and was monitoring the situation and reporting back. Mr. McEachern and his crew were drilling in the alleged UST area this morning when their drill hit concrete below the garage floor. They continued to drill and it seemed as if the bit was grinding on metal. They then checked the hole and pulled out gasoline contaminated soil. Mr. Lorthoir wanted to know whether the DEC wanted to split samples with MC Environmental. I told him Yes, definitely, and to take the dirtiest sample from each boring. I added that hitting concrete below the floor sounds like a vault is present. Mr. Lorthioir concurred. I told him that the DEC wanted the tanks opened up, if they are still there, and checked out. He said that this will be done.

2/12/13 − Raphael Ketani. Mr. Lorthioir sent me the following e−mail with a map showing where the first boring was done in the tank area:

On the attached map, I hand drew where they installed one of the monitoring wells at Motthaven. This is the location where the driller went through several feet of concrete and thinks he may have hit a tank. On Friday, my field tech gauged the well with his interface probe and there was about 2 feet of product in it. The tech from MC environmental wrote down the actual amount.

2/13/13 − Raphael Ketani. Mr. Lorthioir sent another e−mail and stated that MC Environmental was still drilling today.

2/25/13 − Raphael Ketani. Mr. McEachern sent me the following e−mail update:

I am preparing a progress report on the recent work at the garage, so I'll give you the major points here. We drilled six new monitoring wells plus eight borings in the garage. We did not find any USTs by geophysics or by drilling and this confirms our understanding that the original 550−gal. USTs were removed sometime in the past. The first four wells GW−4, GW−5, GW−6 and GW−7 were drilled using a sonic rig. GW−4 and GW−5 are on the west side of the garage (upgradient) and showed no signs of contamination based on PID / visual examination of samples.

GW−6 was drilled on the east side near the old remote fill piping, and the samples near the water table (about 27') had high PID readings and aged gasoline odors. Last week (2/21) we found several feet of free product in GW−6 and we bailed this out until only a few inches remained. We will be removing product weekly using bailers and are looking into using a Spill−Buster pump for active product removal. We collected a product sample for lab analysis for comparison with any other product samples that might be collected if it appears in other wells. I think that using a vac truck EFR would be difficult in terms of access, so we plan to continue bailing or pumping to better determine the volume of removal over time. Well GW−7 had product odors and fairly high PID readings near the water table but no free product so far.

We could not fit the sonic rig into the enclosed area at the south−east corner of the building due to low overhead clearance, so we used a conventional Geoprobe to drill two more wells GW−12 and GW−14 but with great difficulty and could only install 1−inch wells. GW−12 and GW−14 both showed moderately high PID readings at about 25'−30'. GW−8 through GW−11 and GW−13 all were abandoned after shallow refusal (7' to 15') and they did not show indications of contamination.

We surveyed the elevations of all the new wells on 2/21, tying these into the existing well elevations. All soil samples were sent out to Phoenix Labs for analysis for CP−51 VOCs and SVOCs.

We did find about 15 inches of old fuel oil in the 5000 gal. AST inside the basement boiler room. We could not get the AST to pass a vacuum tightness test and it was called into the DEC hotline by Dry−As−A−Bone, Inc. We will be having this fuel oil pumped out by a contractor such as Brookside or AB Oil.

We will be doing quarterly groundwater sampling in March and I will let you and Envirotrac know as soon as we have a date for this.

−− I contacted Mr. Sherwood of TRC (the SCA's consultant; (212) 221−7822/cell (516) 650−5290; msherwood@trcsolutions.com) and gave him a verbal update.

Later, I sent Mr. McEachern an e−mail stating that I had been informed that a concrete slab was encountered below the floor and that the drilling sounded like metal was hit − possibly a UST.

Mr. McEachern responded by e−mail and stated:

I was present when we drilled GW−6 and we did hit concrete at about 3.5 feet but there was sand immediately below and no void as would be expected if we hit a tank. I did not hear a sound like metal being penetrated before or after we hit the concrete. If the concrete we hit was the top of a tank vault, we would have encountered a void of at least several feet and then more concrete at the bottom. There was nothing like that in GW−6. We retrieved a piece of metal from the sonic sampling tube which appears to be a from a pipe rather than part of a tank. Also, in 2008 we closed an old hydraulic lift about 10 feet north of GW−6 and there may have been parts of another lift where we were drilling. I called Diversified Geophysics Inc. (DGI) and asked Andy Silver, the geologist who ran the GPR and MAG surveys, and he clearly saw the piping to the center of the garage but nothing that would suggest a tank or tanks there. Remember, there have been three geophysical surveys of the garage, two for us and one for DEC through Envirotrac, and none found any tanks. The Sanborn maps show tanks in the approximate center of the garage which would be near well MW−22 rather than GW−6, so the fate of these tanks is a mystery but the presence of the 4000 gal. tank that we removed from the lot north of the garage, suggests that the old 550's were replaced by this newer tank. I was surprised as anyone over the product in GW−6 but missing a steel tank or tanks with both GPR and MAG is pretty unlikely. Our immediate focus is on collecting and preventing migration of the free product.

2/27/13 − Raphael Ketani. I received CAP 46 for EnviroTrac. The bill is DC2002.01−69 for the period 12/31/12 to 1/31/13. The invoice date is 2/11/13. The work consisted of project management, calls to MC Environmental staff, e−mails to DEC staff, calls to the owner of the parking lot, GPR and well location inspection, go over work to take place at site with EnviroTrac technician, travel to site, work on annual report, use of low value equipment and light duty vehicle. I found the pay package to be acceptable and notified Steve Karwiel by e−mail.

3/13/13 − Raphael Ketani. Today, I received a copy of the Initial Demand Letter from the Office of the Attorney General seeking reimbursement for the money that was spent for contracting costs for doing the initial investigation of the site.

3/14/13 − Raphael Ketani. I sent an e−mail to Mr. McEachern (631) 321−4500/cell (516) 242−4981 requesting a progress update and stating that he should do simple borings to try and see whether he can hit a concrete vault or metal in order to definitely find out whether the tanks are still there. I added that if he does find the tanks, then they need to be investigated.

3/15/13 − Raphael Ketani. I received and reviewed the TestAmerica 3/14/13 Soil Analytical Report. The samples were taken during

2/6/13 to 2/8/13. The locations sampled were GW−6, 7, 12, 14, 15, and 16. The soil sample results for GW−6(15−20), GW−6(20−12), and GW−15(25−35) were extremely high with VOC hits in the hundreds of thousands of ppb and up to 940,000 ppb of total xylenes. The VOC results for GW−7(20−25), GW−15(0−5), GW−15(30−35) and GW−14(25−30) were very high with hits in the tens of thousands of ppb up to 90,000 ppb of 1,2,4−trimethylbenzene. Mostly moderate VOC hits were found in the sample from GW−12(20−25) from hundreds to 10,000 ppb of 1,2,4−trimethylbenzene. GW−14(30−35) and GW−16(0−5) had mostly low hits up to 4200 ppb of 1,2,4−trimethylbenzene.

From the results in the report, very high contamination is present both just below the garage floor and to 35 feet below grade.

Later, I received an update e−mail from Mr. McEachern:

We have been monitoring the new wells and removing product from new well GW−6 weekly. The product thickness has declined from several feet to about 4 inches as of this morning. We surveyed the new wells and leveled them to the same datum as the other wells. We are preparing a new site plan based on the survey. I heard from Mike Sherwood of TRC today and he wrote that we will have access to the SCA property on 3/28 (Thurs) for sampling and we are planning to sample all the wells we are monitoring between 3/25 and 3/28. I will call Dave at Envirotrac in case he wants to be there or to send someone. We are preparing a geophysical report which will also cover the drilling inside the garage from 2008 to the present. I would like to provide that report for your review before we discuss any further borings or excavating.

I responded back that I will first review the report and then decide whether more borings are warranted.

3/21/13 − Raphael Ketani. Mr. Yudelson called to request an extension of the deadline for submitting the investigation report. I granted him until April 5, 2013 to submit the report.

3/22/13 − Raphael Ketani. I received CAP 47 for EnviroTrac. The bill is DC2002.01−70 for the period 2/1/13 to 2/24/13. The invoice date is 3/13/13. The work consisted of project coordination, project management, preparation for site inspection, oversight of environmental work by EnviroTrac technician, calls to technician in the field, sample management, ship samples, update report, complete report, calls to laboratory, review field data, log in data, travel to site, use of low value equipment, sonic interface probe, PID meter with kit, light duty vehicle, purchase supplies. I found the pay package to be acceptable and notified Steve Karwiel by e−mail.

4/12/13 − Raphael Ketani. I received CAP 15 for TestAmerica. The bill is 46196118 for the period 2/6/13 to 3/31/13. The invoice date is 3/31/13. The work consisted of processing 10 soil samples that were collected at the site from 2/6/13 to 2/8/13. I found the pay package to be acceptable and notified Andrea Indelicato by e−mail.

The soil results for GW−6 (15 to 20 feet and 20 to 21 feet) had total xylenes up to 940,000 ppb. GW−7 (20−25) had total xylenes to 39,000 ppb. GW−12 (20−25) had some contamination, but the results were above CP−51 standards for only a few analytes. GW−15 (0−5 and 25−35 and 30−35) had up to 270,000 ppb of 1,2,4−trimethylbenzene and 57,000 ppb total xylenes. GW−14 (25−30) had up to 90,000 ppb of 1,2,4−trimethylbenzene. The other analytical results were low.

4/18/13 − Raphael Ketani. Today I received the TestAmerica 4/18/13 Groundwater Analytical Report. The hits that were the highest were mostly the xylenes. The constituent analytes were representative of weathered gasoline. The samples from GW−1, GW−2, GW−4, GW−5, MW−8, MW−9 and MW−18 had only or mostly very low hits. GW−7, GW−12, GW−14, MW−22 and MW−28 had many hits which were mostly very high − up to 15,000 ppb of total xylenes from GW−7, 17,000 ppb of total xylenes from GW−14.

Results for samples from wells MW−23 to MW−27 were not included in the package. I sent an e−mail to Mr. McEachern requesting that he sample these wells and collect any product that is present. I added that if there is a problem with the Department's request, then I will have EnviroTrac do the work.

Mr. McEachern responded that Mr. Yaghoubi, the owner of the neighboring property containing the wells, would not let him in to sample wells MW−23 to MW−26. I asked Mr. Lorthioir to contact Mr. Yaghoubi and explain who Mr. McEachern is and why he needs to sample the wells. Mr. Lorthioir later responded back that he had straightened out the matter and that Mr. McEachern can enter the property as long as he provides evidence of insurance.

Mr. McEachern also wrote that Mr. Sherwood is no longer with TRC and that Mr. Sharma of TRC will take his place.

4/29/13 − Raphael Ketani. I reviewed the MC Environmental 4/11/13 Geophysical and Sub−Surface Investigation Report. Three geophysical investigations took place from 2006 to 2013. The surveys didn't detect any tanks, but they did detect piping. The tanks were assumed to be USTs, but, years ago, it was legal to have gasoline ASTs. Free product was found at GW−6, but not at GW−2. USTs are typically not buried deeper than 5 feet bgs, but may be buried as shallow at 2 feet bgs. Thus, it is believed that borings deeper than 5 feet would encounter a UST, if one were present.

Two of the surveys were done with a GPR and one with a magnetometer. In 2006, EnviroTrac contracted X−Ray, Inc. to do a GPR survey in the south−central garage interior. A remote fill pipe was found, but no USTs. MW−22 was installed, but no product was found. The well did have high dissolved phase constituents, however.

In 2007, MC Environmental hired Neava Geophysics to survey outside of the garage and the parking lot. They found a large UST in the parking lot and found additional piping near the south end of the garage that was beleived connnect to another remote fill and to a product puming system along the wall near the south−central area of the garage. However, no USTs were found.

During 2013, MC Environmental hired Diversified Geophysics, Inc. to recheck the previous surveys, check for possible USTs and to do a utility clearance. They also traced the remote fill piping. They found additional piping in an area that had not been surveyed.

During 4/4/07, Brookside Environmental excavated in the south central area of the garage based on X−Ray's survey. No USTs or vaults were found. Several cubic yards of contaminated soil were removed. During 7/2007, ADT drilled 3 borings along Concourse Village West and 10 borings along the garage centerline adjacent to the product line for the 4,000 gal. UST in the parking lot. They drilled to 10 feet, but no USTs or vaults were found.

During February 2013, ADT installed more borings and wells. GW−4 and GW−5 were installed along the west side of the garage, but didn't find soil contamination. GW−6 was drilled along the east side of the garage and strong gas odors were encountered. They went through fill to 3.5 feet bgs and then through concrete from 3.5 to 5 feet bgs. Then they encountered sand with silt and clay to 35 feet bgs. Product was seen in the well. GW−7 was installed near the southern part of the garage near the former Brookside excavation from 2007. Shallow soil samples had strong gas odors and were followed below this by low PID hits and no product. GW−8 to GW−11 and GW−13 were drilled in the back room at the southeast corner of the garage and all hit refusal at 10 to 16 feet bgs. This was assumed to be bedrock. So no wells were installed. GW−12 and GW−14 wre drilled and high PID soil readings were found below 20 feet. The wells were screened from 25 to 35 feet bgs, but no product was found. GW−15 and GW−16 were drilled 30 feet west of MW−22. GW−15 went through 25 feet of fill with concrete debris and had moderate soil PID hits from 0 to 10 feet bgs. This was followed by low readings until the 25 to 30 foot interval, which had moderate readings. GW−16 was attempted 20 feet north of

GW−15, but the hammer broke. No USTws were detected.

MC Environmental recommends installing additional wells. One would be a short distance north of GW−6 north of the garage. The other would be between GW−2 and GW−3. This well would be done after the school year has ended in June 2013. Also, product would be removed from GW−6. A pump would be installed if the presence of the product is persistent. A pilot test for using in−situ chemical treatment would be conducted. An SVE test would also be conducted using one of the existing wells.

I drafted a letter for the review of Mr. Hussein approving the report, but also containing comments regarding the information that was presented. The comments were:

1) product delineation wells must be installed as depicted on the attached plan and off of the northeast corner of the solidified area under the school 2) product must continue to be removed from MW−6 3) groundwater with high analytical results must be removed from GW−7, GW−12, MW−14, MW−22 and MW−28 4) the contaminated soil at both the shallow horizons and deeper horizons at locations GW−6, GW−7, GW−14 and GW−15 must be treated and confirmatory samples must be taken after the treatment solutions have had enough time to address the gasoline contamination 5) boring logs, soil analytical results and other associated information must be submitted for borings GB−9 and GB−10

4/30/13 − Raphael Ketani. Mr. Hussein approved the letter and it was sent out. A deadline of May 31, 2013 was set for submitting a work plan for conducting the delineation and remediation work.

5/1/13 − Raphael Ketani. I received CAP 48 for EnviroTrac. The bill is DC2002.01−71 for the period 2/25/13 to 3/31/13. The invoice date is 4/12/13. The work consisted of project management, GIS management, updating 2012 and 2013 reports, updating CAD files, correspondences with DEC, correspondences with MC Environmental, preparation for sampling event, calls to technician in the field, collection of soil samples, tabulate data, review sampling notes, use of light duty vehicles and low value equipment and the purchase of shipping services and supplies. I found the pay package to be acceptable and notified Steve Karwiel by e−mail.

5/9/13 − Raphael Ketani. Mr. Yudelson (917) 295−6449 called me regarding the contents of the 4/30/13 letter. He agreed with what the DEC was requesting to have done. He said that MC Environmental will follow through on completing the work.

5/23/13 − Raphael Ketani. I received CAP 49 for EnviroTrac. The bill is DC2002.01−72 for the period 4/1/13 to 4/28/13. The invoice date is 5/14/13. The work consisted of project coordination and management, revisions to update 2012 report, correspondences with DEC, sample management, correspondences with lab regarding samples, tabulate data. I found the pay package to be acceptable and notified Steve Karwiel by e−mail.

6/13/13 − Raphael Ketani. Mr. McEachern left a voice message stating that groundwater samples will be taken by MC Environmental during June. He is trying to coordinate the installation of additional wells at the site.

I received CAP 17 for TestAmerica. The bill is 46199055 for the period 4/2/13 to 5/30/13. The invoice date is 5/30/13. The work consisted of processing 12 groundwater samples that were collected at the site from 3/27/13 to 3/28/13. I found the pay package to be acceptable and notified Andrea Indelicato by e−mail.

I reviewed the TestAmerica 4/18/13 Analytical Report for the 12 groundwater samples. Five wells had very high analytical results. These were GW−7, GW−14, MW−22, GW−12 and MW−28. The other 7 sets of results contained low hits and low exceedences.

GW−7: 15,000 ppb total xylenes, 3100 ppb 1,2,4−trimethylbenzene, 1800 ppb ethylbenzene, 870 ppb 1,3,5−trimethylbenzene, 390 ppb n−propylbenzene, 300 ppb naphthalene, 200 ppb isopropylbenzene

GW−14: 17,000 ppb total xylenes, 4100 ppb 1,2,4−trimethylbenzene, 2400 ppb ethylbenzene, 1700 ppb 1,3,5−trimethylbenzene, 710 ppb n−propylbenzene, 590 ppb naphthalene, 320 ppb isopropylbenzene

MW−22: 7000 ppb total xylenes, 2500 ppb 1,2,4−trimethylbenzene, 980 ppb ethylbenzene, 600 ppb 1,3,5−trimethylbenzene, 250 ppb n−propylbenzene, 630 ppb naphthalene, 160 ppb isopropylbenzene

GW−12: 400 ppb total xylenes, 6900 ppb 1,2,4−trimethylbenzene, 79 ppb ethylbenzene, 2300 ppb 1,3,5−trimethylbenzene, 890 ppb n−propylbenzene, 100 ppb napthalene, 250 ppb isopropylbenzene

MW−28: 3900 ppb total xylenes, 1800 ppb 1,2,4−trimethylbenzene, 1200 ppb ethylbenzene, 460 ppb 1,3,5−trimethylbenzene, 280 ppb n−propylbenzene, 450 ppb naphthalene, 150 ppb isopropylbenzene

I sent an e−mail to Mr. McEachern (631) 321−4500/cell (516) 242−4981 and Mr. Yudelson (917) 295−6449 containing the above results and reminding them that the work plan for conducting the delineation and remediation was due by 5/31/13.

Mr. McEachern responded by e−mail that he will do the additional delineation wells after the school year ends.

6/21/13 − Raphael Ketani. Mr. McEachern sent me an e−mail that the next quarterly round of groundwater sampling will take place during June 25 and 26.

6/24/13 − Raphael Ketani. I reviewd the EnviroTrac 5/13/13 Groundwater and Soil Data report. During February and March 2013, staff from EnviroTrac witnessed the installation of additional wells within the parking garage property, which included the taking of soil samples. EnviroTrac split soil samples with MC Environmental from February 6 to 8. They also collected groundwater samples from wells GW−1, 2, 4, 5, 7, 12, 14, MW−8, 9, 18, 22 and 28. Two other wells on the school property had been destroyed. MW−20 and MW−21 were not sampled as they were not part of the scope of work. MW−27 and GW−6 were not sampled due to the presence of product. GW−6 had 2 inches of product and MW−27 had trace amounts of product.

The VOC data ranged from the thousands to hundreds of thousands of parts per billion for individual analytes in soil samples from GW−6 (15’−20’;20’−21’), GW−7 (20’25’), GW−12 (20’−25’), GW−14 (25’−30’), GW−15 (0’−5’; 25’−35’; 30’−35’). These locations were in the east, south and southwest areas of the property. The soil SVOC results varied from non−detect to very low hits.

The dissolved phase groundwater results had high VOC exceedences for samples from GW−7, GW−12, GW−14, MW−22 and MW−28. The concentrations varied from the hundreds of parts per billion to 12,000 ppb for various analytes. These wells were in the central, southern and southwestern parts of the property. SVOCs were not tested for.

6/27/13 − Raphael Ketani. I received CAP 50 for EnviroTrac. The bill is DC2002.01−73 for the period 4/29/13 to 5/26/13. The invoice date is 5/26/13. The work consisted of updating CAD figure and file, updates regarding field work, review MC Environmental report, tabulate soil and groundwater data and send letter to DEC, do new site maps, complete update reporting. I found the pay package to be acceptable and notified Steve Karwiel by e−mail.

7/2/13 − Raphael Ketani. Mr. McEachern (631) 321−4500/cell (516) 242−4981 called today. Quarterly sampling was done last week. A

well will be installed in the garage, in between GW−2 and another well and under the school. He added that Mike Sherwood cell (516) 650−5290 was still involved in the school site, but as a private consultant. A sock was installed in MW−27. MW−8 had black liquid. Mr. McEachern thinks its the MGP waste he had seen at two other wells in the past. I thanked him for the update and asked him to proceed with the work.

I sent an e−mail to Deborah (Lee) Guterman of the SCA (718) 472−8502 requesting permission for Mr. McEachern to enter the school property and install the wells.

7/3/13 − Raphael Ketani. Ms. Guterman called me today. She asked that Mr. McEachern send her a map showing where he wants to put the wells and include information regarding the proposed well design, the equipment to be used, the well diameter, whether the wells will be permanent or temporary, how often he will need to enter the property for well development, sampling and product collection. I wrote in an e−mail to Mr. McEachern that he should submit a simple work plan for installing the wells under the schools (PS156 and IS151) with all of the above information. I added that there should be at least two wells installed and that he should get mark outs of all of the utilities and the location of the in situ solidification concrete slab. I C−C'd Ms. Guterman.

Later, Mr. McEachern responded by e−mail stating that he will prepare a work plan for installing the wells below the schools.

7/15/13 − Raphael Ketani. Mr. McEachern (631) 321−4500/cell (516) 242−4981 sent me the Workplan for Additional Monitoring Wells dated 7/10/13. Drilling is tentatively scheduled for late July. The work will take 2 days. MC Environmental requested the assistance of the SCA regarding information concerning the location of utilities and the extensive construction.

Four (4) additional wells are proposed to confirm the limits of the spill in the groundwater north and east of the well network. One (1) new well will be installed in the garage about 35 feet north of GW−6. One or two wells will be installed under the schools. Diversified Geophysics, Inc. (DGI) will survey the area before new wells are installed north of GW−6, between GW−2 and GW−3 and on the school property. MC Environmental will try to obtain the school site plan from the SCA regarding the utilities and drainage. The most contaminated soil sample from each boring will be sent off for analysis. If product is found, a sample will be sent off for fingerprinting. Soil samples will be provided to vendors for treatability analysis. Groundwater data will also be sent to them.

Comments were generated as a result of my review of the work plan. First, installing a well 35 feet north of GW−6 without the installation of an intervening well was deemed too far of a step out for delineation purposes. Additionally, there was no information regarding answers to two of the SCA's questions (see below).

1) will the wells be temporary or permanent 2) how often will MC Environmental need to enter the property for development, sampling and product collection

MC Environmental provided a map showing the possible locations of two wells that will be installed on the school property. It is indicated that one well will be installed near Pit 5. However, it is not mentioned whether this was the pit with a sheen.

Lastly, Mr. McEachern never sent the Department the boring logs, soil analytical results and other associated information for borings GB−9 and GB−10, as requested in the DEC's 4/30/13 letter.

I drafted a response letter for the review of Mr. Hussein which contained the above comments.

Mr. Hussein approved the letter and it was sent out.

7/29/13 − Raphael Ketani. I received CAP 51 for EnviroTrac. The bill is DC2002.01−74 for the period 5/27/13 to 7/15/13. The invoice date is 7/15/13. The work consisted of final map corrections for report, send the report, product recovery by AARCO Environmental Services and shipping environmental samples by UPS. I found the pay package to be acceptable and notified Steve Karwiel by e−mail.

7/30/13 − Raphael Ketani. I received the following e−mail today from Ms. Guterman (718)472−8502 :

Thank you for the information. SCA has coordinated with DOE, who will be handling this work. We have also shared our comments and suggestions with them. Since this matter involves existing schools, your point of contact is Mr. John Shea (JShea3@schools.nyc.gov), DOE, Division of School Facilities (DSF). Of course, if you need anything further from SCA, please don´t hesitate to call me.

8/5/13 − Raphael Ketani. Mr. McEachern sent me the boring logs for GB−9 and GB−10 and the SVOC data for a sample taken from GB−10. The boring logs showed that they had drilled to 10 feet and 5 feet bgs, respectively. The SVOC data for GB−10 was completely non−detect.

Mr. McEachern also sent me the revised 7/10/13 Work Plan for Additional Monitoring Wells dated 8/5/13.

Later, I sent an e−mail to John Shea of the NYC DOE requesting his permission for conducting the well installations under the schools. I also attached Mr. McEachern's 8/5/13 cover letter and revised work plan, the figure that goes with the work plan and a previously approved remedial investigation work plan dated 11/16/12.

Mr. Shea responded back by e−mail that the issue of access to the school property was given to Kimberly Ong, New York City Law Department (100 Church Street, NY, 10007, (212) 356−2309). She will draft an access agreement.

8/6/13 − Raphael Ketani. Ms. Ong sent an e−mail to Louis Oliva, Regional Attorney of DEC, and requested an opportunity to discuss drawing up an access agreement for the work that is proposed.

Later, she requested the contact information for Mr. Yudelson so that she can work out an access agreement with him. I sent her the information.

After this, Mr. McEachern sent an e−mail to Mr. Shea stating what the objectives of MC Environmental were regarding the investigation. He also requested the names of all parties to be listed on insurance documents and information regarding any other documents required by the City.

I reviewed the 8/5/13 Work Plan for Additional Monitoring Wells. In the work plan, Mr. McEachern addressed the SCA's questions. He also called me yesterday regarding the placement of a well 35 feet north of GW−6. He said that this was being done because there was concrete from old lifts in the area. So this was as close as they could get. I found the work plan to be acceptable and sent an e−mail to Mr. McEachern to this affect.

8/8/13 − Raphael Ketani. Ms. Ong (212) 356−2309 left a voice message stating that she had contacted Mr. Yudelson today regarding

drafting the access agreement. She also sent the access agreement to the DEP. The process will take a few days, at least, and will probably result in the access agreement being finalized and approved sometime after August 2013.

8/21/13 − Raphael Ketani. Ms. Ong sent me an e−mail stating that the area under the school where the drilling will take place has a Brownfield Cleanup Agreement with an Soil Management Plan (SMP). (The site is a former Metro North property.) One of the requirements of the SMP is that specific government agencies and offices and the community board must be given 15 days notice before non−routine work can take place. Since Penta One wants to drill on August 24, this is just not enough notice. Therefore, Ms. Ong wrote, the drilling will have to be rescheduled. She also stated that she is working on finalizing the access agreement.

I responded that the City and Penta One will just have to work together to find another drilling date − possibly during the weekend or a holiday.

Later, Mr. Yudelson (917) 295−6449 e−mailed regarding the SMP. He stated that Ms. Ong's interpretation of the SMP conditions was not completely correct. He said that the installation of two shallow monitoring wells should not fall under the category of non−routine work. I told Mr. Yudelson that I would talk to Sondra Martinkat, EE II in Remediation and former project manager for the 753 Concourse Village West school site.

Ms. Martinkat told me that, while well installations are not routine, the installation of two shallow wells should not be subject to the 15 day prior notification as long as the responsible party has submitted a specific description of the work that will take place and how the work will be done. I told Ms. Martinkat that I had already received, reviewed and approved the 8/5/13 Work Plan for Additional Monitoring Wells and found that it contained specific and detailed information about this part of the project. Ms. Martinkat said that if I was satisfied about the description, then I could tell the R.P. that they can go ahead with the work on August 24, as planned. However, all of the respective concerned parties would still have to be notified. I told her that I will send an e−mail to Ms. Ong of the City and Mr. Yudelson, the R.P. lawyer, and let them know this.

Later, I sent an e−mail to Ms. Ong and Mr. Yudelson stating the explanation above and adding that the work could go ahead as long as the access agreement was in place. I attached a copy of the approved 8/5/13 work plan.

Sometime later, Ms. Martinkat told me that the well installations have to wait for the NYC Board of Education to make the 15 days notifications to everyone. I sent an e−mail to this effect to Ms. Ong and Mr. Yudelson.

8/26/13 − Raphael Ketani. Jane O'Connell, EG III and head of the superfund/brownfield unit in Region 2, sent me an e−mail dated 8/23/13 from Mr. Sherwood (former SCA consultant) with a picture showing the sheen on top of the water at Test Pit #5 and a map with the suggested locations for the new project monitoring wells.

9/26/13 − Raphael Ketani. Mr. McEachern (631) 321−4500/cell (516) 242−4981 called. He said that they are still negotiating the access agreement for installing the two wells under the school. He can't wait any longer to do the groundwater sampling. So he will do the next scheduled round without samples from the two proposed wells. I told Mr. McEachern that would be fine given the circumstances.

10/22/13 − Raphael Ketani. Kimberly Ong of NYC Law (212) 356−2309 sent Mr. McEachern (631) 321−4500/cell (516) 242−4981 a site plan map from the SCA titled Test Pit 5.

11/18/13 − Raphael Ketani. I hadn't heard any news regarding the access agreement in a month. So I tried to contact Ms. Ong and

Mr. McEachern, but I could only leave voice messages. I sent an e−mail to Ms. Ong, Mr. McEachern and Mr. Yudelson (917) 295−6449 regarding the same issue.

Later, Mr. McEachern called me regarding the site. He said that he met with Mr. Sherwood (from Cardno ATC; (516) 650−5290) and they looked over the school site and went over the possible well locations. According to Mr. McEachern, Mr. Sherwood recommended two well locations which were only 30 feet apart. Mr. McEachern told him that this didn't make sense as these wells were so close as to be in the same area. Mr. McEachern suggested moving one well further north so that it would be 50 feet from the other. Mr. Sherwood strongly disagreed and refused to accept Mr. McEachern's suggestion. Mr. McEachern then told Mr. Sherwood that he will sample the soil as he is drilling down into the ground and have the samples processed for VOCs and SVOCs. Mr. Sherwood told Mr. McEachern not to sample the soil. McEachern told me that he didn't know why. However, there is old MGP waste encapsulated nearby. So maybe, Mr. McEachern said, Mr. Sherwood doesn't want to have anyone prove that the waste is not fully encapsulated.

Next, I spoke to Ms. Ong. I explained to her what Mr. McEachern had just told me. She said that this was all new to her. She stated that she had been trying by phone for a long time to get ahold of Mr. McEachern and Mr. Yudelson to talk about the site, but no one returned her phone messages. She said that the access agreement had been finalized. All she needed was a map showing the two well locations.

As a last attempt, I sent Mr. Yudelson (917) 295−6449 another e−mail stating what Mr. McEachern and Ms. Ong had just told me.

Mr. McEachern (631) 321−4500/cell (516) 242−4981 had also told me that he is working on a work plan for conducting soil vapor extraction. He had been considering doing treatment solution injections and so he had contacted two companies that could supply the chemicals. He had contacted Regenesis and CleanOx and both of them told him that there were too many oxidizers and too much organics in the soil for the treatment solutions to be effective. So, soil vapor extraction seemed to be the best way to remove the remaining soil contamination. I told him that the product needed to be removed first. Mr. McEachern told me that he had done product removal from MW−6 and MW−27 and there is no product left in any of the wells. He added that the owner is anxious to finish this project. I told Mr. McEachern to forward the plan as soon as it is approved by the owner.

After the phone conversation and e−mail, I met with Sandra Martinkat, the project manager for the school site, and her supervisor, Jane O'Connell, regarding the well location and installation issue. Ms. O'Connell directed Ms. Martinkat to contact the consultanting company for the Board of Education and find out which consultant is in charge of the school project. Then she should talk to him or her to try and get the well locations settled.

I sent an e−mail to Mr. Yudelson explaining what had transpired during the meeting with Ms. O'Connell and Ms. Martinkat.

Much later, Ms. Martinkat sent me an e−mail stating that the contact for the school project is Gilbert Gedeon of Cardno ATC. She had also sent Mr. Gedeon an e−mail with an attachment consisting of figures from this oil spill case showing the proposed new well locations, the present well and boring locations west of the schools, groundwater flow direction and total BTEX concentrations.

Later, Mr. Gedeon responded by e−mail to Ms. Martinkat. In his e−mail, he included a plan showing the plumbing below the school and the proposed well locations. He stated that Mr. Sherwood had met with Mr. McEachern regarding placement of the wells. At Ms. Martinkat's request, Cardno ATC will contact me concerning this matter. Bernie Orlan of the DOE and the SCA are in agreement with the proposed well locations. However, before work can begin, he will need a copy of the access agreement and the plan showing the agreed upon well locations. Once he has these, then he will provide the 15 day notice to DEC, the Bronx Borough President's

Office, the NYC Council Representative for the district and to Community Board 4 of the well installation date.

11/19/13 − Raphael Ketani. I responded to Mr. Gedeon's e−mail of 11/18/13 stating that the DEC wanted one well to be installed much further north and to have soil samples taken during the boring for analysis. I wrote that Cardno ATC must talk to Mr. McEachern and find out where he wants the wells to be and to settle this issue with him.

Later, Lee Guterman (718) 472−8502 of the SCA and her consultant, Mr. Sherwood, called me in a conference call to discuss the matter of the meeting with Mr. McEachern and the choosing of the well locations. Ms. Guterman stated that she said Mr. Sherwood thought that the access agreement didn't allow soil sampling. So he was not amenable to Mr. McEachern taking such samples. She said that the SCA was doing plumbing work for the school 2 years ago. Mr. Sherwood stated that test pit #5 was dug and liquid product was found. Mr. Martinkat and Gene (Jean?) were called. Pit #5 was remediated via in situ solidification of the MGP waste. Mr. Sherwood added that he believed the plume from the garage had worked its way around the solidified mass. He also stated that he wanted a well at pit #5 because there is product. I told him that the DEC wants one well to be placed about 50 feet to the north. Mr. Sherwood stated that he believed that if Mr. McEachern puts a well to the north, it will come up clean as wells that had previously been placed there were clean. He added that Mr. McEachern will take a sample from the well to the north and say it is not us , but the well to the south would be dirty and he will say it is the Department of Education. I told Ms. Guterman and Mr. Sherwood that I have enough experience managing oil spill cases and that I know the site, so that I will be able to tell whether the contamination is from the garage or not. Ms. Guterman stated that we know the unsaturated soils under the platform are historic fill with PAHs and MGP waste. So, Mr. McEachern will make the case that the contamination is due to the MGP waste on site. I told Ms. Guterman and Mr. Sherwood that I have had a lot of experience looking at the analyses for historic fill and that I had seen various types of historic fill. So I will be able to tell whether the analytical results are representative of historic fill or gasoline contamination − the primary waste from the garage. I added that Mr. McEachern had already collected the product on the groundwater below the garage. Mr. Sherwood stated that the wells in the southwest corner of the school site had been abandoned due to the solidification of the MGP waste and the other wells were destroyed during construction. Mr. Sherwood added that the contamination from the garage moved east and south. He stated that it smelled like gasoline and he saw a sheen. I told Mr. Sherwood that I was sure that was what he had smelled and seen. He added that there is a plume emanating from an upgradient source. Mr. Sherwood asked whether I will have Mr. McEachern take a sample for fingerprinting. I told him I will have him do this. Ms. Guterman asked me to keep my eyes and ears open. She added that it seems like you are aware of the situation. With that, the conversation ended.

11/20/13 − Raphael Ketani. I sent an e−mail to Mr. McEachern (m−kay−hern) stating that the DEC requires that a sample of the product, when found, be taken from the two wells to be installed for 8260 and 8270 analysis.

11/25/13 − Raphael Ketani. Moe Yaghoubi (212) 426−8400/moe@umdc.net (brother of Abbey, the owner of A Z Business − the owner of the parking lot at 180 E. 156 Street) called today. He wanted to know the status of the work at the parking garage. I told him what was presently taking place and that the DEC had approved the latest work plan for installing additional wells onsite and below the school. I told him that getting permission to install the wells below the school was taking a long time and was holding up moving forward. However, the DEC was sure that this would take place. He asked me whether he could build on his property as there are DEC wells on his lot. I told him that since his property is not a spill site and since the groundwater flow and contamination has been defined, the DEC does not have a reason to hold up development of the parking lot. I asked him what he was going to build there. He said that one part of the property will be developed with a 10 story building. I asked him how far down is bedrock. He said that he had a survey done and it is 45 feet down. I told him that he will need a vapor barrier to protect the residents from any vapors coming from the groundwater. He said that he will do this. I added that if contaminated soil is found, then he or someone involved with the property will have to call in a spill to the DEC Spills Hotline. I stated that, as far as

the wells on his property are concerned, the DEC would appreciate it if they could be reinstalled so that someone can enter the basement of the future building and sample them. Mr. Yaghoubi said that he will try to cooperate with the DEC. With that, the conversation ended.

11/26/13 − Raphael Ketani. Today I received the Phoenix Environmental Labs 8/1/13 analytical report for the groundwater samples that were collected on 6/25/13. The results were only for the VOCs. The wells sampled were MW−8, 9, 18, 22 to 25, 28, GW−1, 2, 4, 5, 7, 12 and 14. The results were: MW−8, 9, 18, 23, 24, GW−1, 2, 4 and 5 almost entirely non−detect with a few very low hits. MW−25: 6 low to moderate exceedences to 480 ppb total xylenes with the rest mostly non−detect and a few very low hits. MW−28: 7 high to very high exceedences to 2360 ppb total xylenes with the rest mostly non−detect and a few very low hits. GW−7: 8 moderate to very high exceedences to 1710 ppb total xylenes with the rest mostly non−detect and a few very low hits. GW−12: 10 moderate to very high exceedences to 7500 ppb 1,2,4−trimethylbenzene with the rest mostly non−detect and a few very low hits. MW−22: 8 high to extremely high exceedences to 13,800 ppb total xylenes with the rest mostly non−detect and a few very low hits. GW−14: 9 moderate to extremely high exceedences to 17,100 ppb total xylenes with the rest mostly non−detect and a few very low hits.

With the exception of the results from MW−25 and MW−28, it appears that the highest groundwater contamination is still under the garage itself.

11/26/13 − Raphael Ketani. Today I reviewed the Phoenix Environmental Labs 10/28/13 analytical report for the groundwater samples that were collected on 10/17/13 and 10/18/13. The results were mostly for the VOCs. The wells sampled were MW−8, 9, 18, 22 to 25, 26, 28, GW−1, 2, 4, 5, 7, 14, 15 and 16.

The results were: MW−9, 18, 23, 25, 26, GW−1, 2, 4, 5, 15 and 16 − either entirely non−detect, almost entirely non−detect with a few very low hits, some non−detects with very low hits, or very low hits and a small number of very low exceedences. There were some sets of data for SVOCs, but these were either entirely non−detect or almost entirely non−detect with some very low hits.

MW−8: 3 non−detects, 4 very low hits, 5 low exceedences, 2 moderate exceedences (middle to high double digits), 1 high exceedence to 163 ppb total xylenes GW−7: 5 non−detects, 1 low hit, 5 low exceedences, 2 moderate exceedences, 2 high exceedences to 165 ppb total xylenes MW−24: 4 non−detects, 1 low hit, 3 low exceedences, 2 moderate exceedences, 5 high exceedences to 690 ppb total xylenes MW−28: 6 non−detects, 2 low exceedences, 5 high exceedences to 680 ppb, 2 very high exceedences to 1830 ppb total xylenes MW−22: 5 non−detects, 2 low exceedences, 6 high exceedences, 2 very high exceedences to 5800 ppb total xylenes GW−14: 5 non−detects, 3 moderate exceedences, 3 high exceedences, 4 very high exceedences to 14,100 ppb total xylenes

The highest groundwater contamination still appears to be under the garage, but the concentrations in the samples are lower than the June 2013 round.

12/6/13 − Raphael Ketani. I reviewed the Soil Vapor Extraction Pilot Testing Work Plan dated 11/22/13. Mr. McEachern (631) 321−4500/cell (516) 242−4981 wrote that the highest soil and groundwater contamination concentrations are between GW−6 and MW−27 and between the garage east wall and GW−7. Removing soil is not possible at the site because of structural issues. However, it is possible to remove the contamination through soil vapor extraction (SVE) with the addition of oxygen to the saturated zone via air sparging. The test can be completed during 2 days of operation. Four (4) air sparging wells will be installed. The system equipment will be set up near the garage east wall near GW−6. The 4 sparge wells will be 1 inch in diameter and will be installed 10 feet from GW−6. GW−6 will be used as an SVE well, but if there is product, then GW−7 or MW−22 will be used. MW−22, GW−7, GW−5, MW−22 and GW−15 will be used to monitor the vacuum. Due to the condition of the wiring in the garage, a generator will be rented

to run the equipment. The generator will be installed outside of the garage and will be capable of supplying 12,000 watts of power. The pilot test will run for 6 to 8 hours. It will run in the SVE only mode for 4 hours and will be followed by running for 2 hours in a combined SVE and sparging mode. The effluent air will be sampled using a Tedlar bag. The sample processing will be a 72 hour turnaround time. Groundwater will be sampled before the pilot test and within 48 hours of the end of the pilot test. The wells will be monitored for free product before and after the test. A results report will be submitted to the DEC.

I sent Mr. McEachern an e−mail approving the report. However, I told him that the generator will be noisy and will make a fair amount of exhaust. I then asked how he will deal with these issues when school will be in session. I also told him to call the DEC Air Division and see whether a permit is needed to exhaust the effluent vapors.

Mr. McEachern (631) 321−4500/cell (516) 242−4981 responded by e−mail that the amount of exhaust will not be more than a car or truck passing by as Concourse Village West has a fair amount of traffice. He thought the noise was not an issue, either. However, he will contact the Air Division and see if a permit is needed. Also, he has not heard anything from the Dept. of Education as regards the access agreement. I wrote back that he should contact Ms. Ong (212) 356−2309, the DOE attorney in charge.

Mr. McEachern responded by e−mail that the work can take place during a saturday. So noise would not be an issue. However, he wrote that a well site map was sent to Ms. Ong. He also wrote that Mr. Sherwood did not want soil samples taken. A map showing the well locations picked by Mr. Sherwood and the locations picked by DEC was attached to the e−mail.

I contacted Ms. Ong and asked her whether she had received the well site map. She stated that she hadn't. I told her that the DEC wanted soil samples to be taken and that this was normal procedure, even when doing soil borings to install a temporary well. Ms. Ong stated that she will call Mr. McEachern.

2/5/14 − Raphael Ketani. As there have been no correspondences from Mr. McEachern (631) 321−4500/cell (516) 242−4981 regarding progress with the spill remediation, I sent Mr. Yudelson (917) 295−6449 an e−mail explaining that there was a lack of progress and asking him to see if there is a problem and whether he can get things moving again.

2/11/14 − Raphael Ketani. I called up Kimberly Ong of NYC Law (212) 356−2309 in order to find out what the status was of the access agreement. She said that the agreement was ready to go pending the map. I told her that I will send the map by e−mail. I added that things seem to be at an impass. Ms. Ong said maybe a conference call with us, SCA and Mr. Sherwood would help move things along. I told her that would be a good idea and that I will include the times that I am available to have a conference call.

2/21/14 − Raphael Ketani. The conference call took place today at 9:00AM as planned. In attendance were Ms. Ong (212) 356−2309, Mr. Sherwood (631) 321−4500/cell (516) 242−4981, Lee Guterman (718) 472−8502 of the NYC SCA and myself. The conversation revolved around the placement of the proposed monitoring wells, the presence of the encapsulated MGP waste and the SCA's work to deal with the waste, the plume allegedly coming from the parking garage, soil sampling and the access agreement.

Ms. Guterman stated that the SCA was concerned that one proposed well would be too far north and would not show the gasoline contamination. She added that the result will be that Mr. McEachern will say that there is no gas contamination under the school. The SCA did it's fair share of cleaning up the site. Ms. Guterman stated that the SCA wanted to be sure that the absence of the detection does not mean that there is no contamination. I stated that even if a groundwater sample from a well to the north doesn't show gas contamination, that doesn't mean that there is no information. Lack of any detections is still information for the DEC. Ms. Guterman said that she understood what I was saying. Mr. Sherwood stated that the groundwater flow had been defined

as to the southwest from some upgradient source. He added that only the southwest most test pit (test pit #5) showed floating product. Mr. Sherwood stated Why don't we go with the 2 wells that the DEC is proposing and DEC would make a field call for a possible third well? Ms. Ong stated that she will put in the access agreement a provision for the possibility of a third well. Ms. Guterman said that our concern about the soil sampling was that Mr. McEachern would take the samples and claim that there is still MGP waste that hasn't been dealt with. Mr. Sherwood stated that MGP waste analyses look like historical fill analyses. There are a lot of PAHs. Mr. Sherwood added that if Mr. McEachern is taking the soil samples for waste characterization for disposal purposes, then he can understand this. I asked whether there was a cap under the schools. Mr. Sherwood stated that the entire area under the schools has a cap. The DEC didn't require a cover, but the community required the cap. So there is a concrete cap. Ms. Guterman stated that the contractor will have to follow the requirements set forth for doing work on the school property. She added that he will have to give 2 weeks prior notice to all parties before doing the work. I stated that the DEC is not concerned about any MGP waste that is under the schools as the SCA has already dealt with this. We just want to deal with the spill for this site (the garage). I told Ms. Ong to talk to Mr. Yudelson and explain to him what needs to be done and what the conditions of access and work are. Also, I stated that she should write a draft access agreement with a cover letter explaining all of the required conditions, and she should send it to Mr. Yudelson.

2/24/14 − Raphael Ketani. Mr. McEachern (cell (516) 242−4981) called me regarding an e−mail I had sent him and Mr. Yudelson on 2/21/14 containing the contents of that day's conversation with Ms. Guterman and Mr. Sherwood.

I explained that it meant he will have the opportunity to install as many as 3 wells and take soil samples. I added that the integrity of the concrete cap will have to be maintained and that he will have to have insurance in place and all of the paper work before he drills. Mr. McEachern said that the had already given this information to Ms. Ong and will gladly do it again.

Mr. McEachern added that he and other consultants looked over the garage last week as regards the SVE pilot study that will take place. Also, he got a quote from Brookside Environmental for abandoning the 5,000 gal. #6 oil AST in the partial basement.

4/10/14 − Raphael Ketani. A planned site visit and meeting took place with Mr. Yudelson (917) 295−6449. The idea behind the meeting was to show Mr. Yudelson where the two wells would be placed under the schools. I indicated what the direction of groundwater flow was (essentially northwest to southeast). Mr. Yudelson agreed that the flow was this direction. I also explained that one well would be directly in the flow path and south of the encapsulated area with the MGP waste. The other would be about 40 feet northwest of the first well. Mr. Yudelson asked whether a geoprobe could do the job. I told him to talk to Mr. McEachern because he knows the site conditions below grade. I also said that it would be better to go with a rotary rig because augers can move between any large debris that may be underneath. I told Mr. Yudelson that groundwater is close to the surface and that the two wells could be installed in one morning or afternoon. However, someone from either the School Construction Authority or the Department of Education will want to be there to oversee the work. I asked Mr. Yudelson to coordinate with these people. He said that he would. I showed Mr. Yudelson the platform and the steel pilings from a vantage point that was at the northern edge of the schools. Mr. Yudelson stated that he now understood what the site conditions were under the schools. Before the meeting ended, Mr. Yudelson added that Mr. McEachern was working on installing the SVE system. I told him to have Mr. McEachern send me an update. He said that Mr. McEachern will. After this, the meeting ended.

4/24/14 − Raphael Ketani. Today I received an e−mail as a C−C from Mr. Yudelson. The e−mail was addressed to Louis Oliva, Chief Regional Attorney. The e−mail was the following:

I met with Rafiel at the site just before the holidays and will send Kimberly the agreement with minor comments in a day or two at most.

5/5/14 − Raphael Ketani. Mr. Yudelson (917) 295−6449 copied me in an e−mail to Ms. Ong. Attached to the e−mail was the current form of the draft access agreement. I forwarded the draft access agreement to John Urda of the Region 2 Office of General Counsel in order for him to review it as regarded the parts which included statements refering to the DEC.

5/7/14 − Raphael Ketani. Mr. Urda responded that the access agreement looked alright. I sent an e−mail to Ms. Ong and Mr. Yudelson stating that the DEC had no comments concerning the present form of the draft access agreement. A little while later, Ms. Ong called me and stated that Mr. Yudelson (917) 295−6449 had eliminated the option for the DEC to ask for more wells in the event that contamination is found. Mr. Ong (212) 356−2309 added that the SCA (Ms. Guterman) had concerns that the installation of only the two wells may miss the plume that is traveling under the school property. I told Ms. Ong that Mr. Yudelson and I had previously had a site visit where we had determined the flow direction which was downgradient from the garage. I added that we had therefore decided that two wells placed in the agreed upon locations indicated by Mr. McEachern's map would be sufficient to intersect any plumes emanating from the garage. Ms. Ong was still concerned about the deletion of this previously included condition for allowing the DEC to ask for more wells. I told her that she should set up a conference call so that she, Mr. Yudelson and myself can discuss this matter. She said that she will.

After this conversation, I talked to Mr. McEachern (cell (516) 242−4981). He told me that he had installed 2 sparge points last week in the garage. Right now, he is waiting to do the SVE pilot test. However, he has to schedule things with the contractor. The results will be used to design the full treatment system. Mr. McEachern expected to install the full system during the summer. He also mentioned that he had done the first quarter 2014 groundwater sampling and that he had the results and had made some maps. He stated that GW−6 had product back during 2013 and that MW−27 to the south was a hot spot. However, he didn't see oil in these wells during the first quarter 2014 round of sampling. I asked Mr. McEachern whether he could send me a quick compilation of the groundwater data and the maps ahead of the full report. He said that he could and will get them to me by e−mail soon. I told him that would be fine.

Later, Mr. Yudelson called me. He said that Ms. Ong will arrange a conference call in the near future with him, herself, me and at least Ms. Guterman in order to resolve the well placement issue. I told him that I would wait for Ms. Ong's appointment e−mail.

5/13/14 − Raphael Ketani. The conference call took place as planned. In attendance were Lou Oliva, Regional Attorney for DEC Region 2, myself, Ms. Ong, Ms. Guterman and Mr. Yudelson. The language of the latest draft was reviewed. The DEC expressed that it wanted the wells to remain available for quarterly groundwater monitoring. Ms. Ong said that this language was in the draft agreement. I also stated that the DEC wanted these wells available for contaminated groundwater recovery. Mr. Yudelson said that hydraulic controls would be instituted at the site so that the wells will not be needed for this activity. I reiterated that the DEC didn't want to loose any options at preventing contaminated groundwater from moving further off site. Ms. Ong said that if groundwater collection was needed, then a new access agreement would be written. Mr. Yudelson asked for an expiration date for the agreement and suggested June 15, 2015. Everyone agreed to this date. With that, the conference call ended.

5/16/14 − Raphael Ketani. Today I reviewed three maps that were sent by Mr. McEachern (cell (516) 242−4981). The first map had actual BTEX values in boxes with isopleth contours. Wells MW−6 and MW−27 were not sampled as they had contained product. GW−14 had the highest onsite concentration at 16,613 ppb total BTEX. Well MW−25 had the highest off site total BTEX concentration at 2,176 ppb. The second map had just the BTEX isopleth contours. The third map had groundwater elevation contours. The contours showed the general groundwater flow trend, but didn't demonstrate the true nature of the appearance of the plume.

5/23/14 − Raphael Ketani. I reviewed the Phoenix Environmental Labs 12/30/13 groundwater analytical report. Wells MW−8, 9, 18, 22

and 24 to 28 and GW−1, 2, 4, 5, 7, 14 and 15 were sampled on 12/16/13. MW−27 had VOC results of 4 exceedences from 81 ppb to 740 ppb and 7 high exceedences from 1300 ppb to 19,800 ppb. GW−14 had 4 non−detects, 4 low hits, 3 moderate exceedences from 220 ppb to 880 ppb and 4 high exeedences from 1300 ppb to 16,000 ppb. MW−22 had 3 non−detects, 4 low exceedences from 7 ppb to 71 ppb, 4 moderate exceedences from 120 ppb to 530 ppb and 3 high exceedences from 1300 ppb to 6400 ppb. MW−28 had 5 non−detects, 3 low exceedences, 3 moderate exceedences from 150 ppb to 970 ppb and 2 high exceedences from 1300 ppb to 3000 ppb. MW−8 had 4 non−detects, 3 low exceedences, 6 moderate exceedences from 46 ppb to 820 ppb and 2190 ppb of total xylenes. The highest VOC results were usually for total xylenes. The VOC results for all of the other samples varied from entirely non−detect to low hits and low exceedences. The great majority of the SVOC results for all of the samples were non−detect, very low hits and very low exceedences. The benzo series of analytes typically had from one to five species with moderate exceedences above their 0.002 ppb standards.

Next, I reviewed the Phoenix Environmental Labs 4/9/14 groundwater analytical report. Wells MW−18 and MW−23 to 26 and GW−1, 2 and 15 were sampled on 3/27/14. The VOC results for MW−18, MW−23, MW−24, GW−1, GW−2 and GW−15 were virtually entirely non−detect. The SVOC results were either all non−detect or mostly non−detect with a small number of low to moderate exceedences. MW−25 had almost no VOC detections with 6 low exceedences to 88 ppb, 4 moderate exceedences from 210 ppb to 590 ppb and 1590 ppb of total xylenes. The SVOC results were almost entirely non−detect. MW−26 had almost no VOC detections with 7 low exceedences to 77 ppb and 4 moderate exceedences from 110 ppb to 530 ppb. The SVOC results were almost entirely non−detect with one hit of naphthalene.

Lastly, I reviewed the Phoenix Environmental Labs 4/10/14 groundwater analytical report. Wells MW−8, 9, 22 and 28 and GW−4, 5, 7, 12, 14 and 16 were sampled on 3/28/14. MW−28 VOCs were almost entirely non−detect with 2 low exceedences, 5 moderate exceedences from 120 ppb to 620 ppb and 1400 ppb and 2500 ppb for high exceedences. MW−22 VOCs were almost entirely non−detect with 2 low exceedences, 4 moderate exceedences from 210 ppb to 430 ppb and 2290 ppb. GW−14 VOCs were almost entirely non−detect with 3 low exceedences, 4 moderate exceedences from 140 ppb to 910 ppb and 3 high exceedences from 1800 ppb to 14,800 ppb. MW−8 VOCs were almost entirely non−detect with 5 low exceedences and exceedences of 230 ppb, 480 ppb and 1220 ppb. GW−12 VOCs were almost entirely non−detect with 5 low exceedences, 3 moderate exceedences to 540 ppb and 2 high exceedences of 1500 ppb and 5300 ppb. The VOC results for the rest of the samples collected during this round were virtually entirely non−detect with only a small number of low hits and low exceedences. The SVOC results for all of the samples were consistently almost entirely non−detect.

5/29/14 − Raphael Ketani. Mr. Yudelson (917) 295−6449 told me today that the access agreement was finalized and that it was sent out for signatures.

6/30/14 − Raphael Ketani. Jennifer Dettinger from the OAG in Albany called and stated that Mr. Yudelson had called her and that he wanted to settle the PIN costs. I explained to Ms. Dettinger what the remediation status was and what had taken place in the past and what was supposed to take place in the future. She thanked me and said that she will call Mr. Yudelson later.

7/15/14 − Raphael Ketani. I sent e−mails to Mr. Yudelson and to Mr. McEachern (cell (516) 242−4981) requesting a progress update.

Mr. Yudelson responded to my e−mail and wrote that he had not received the signed access agreement from the City. So, I sent Ms. Ong an e−mail requesting that they forward the signed access agreement to Mr. Yudelson.

8/7/14 − Raphael Ketani. Mr. Yudelson (917) 295−6449 called regarding the site and Penta Realty. He said that the OAG was holding his client responsible for the entire $250,000 cost recovery. He said that this wasn’t fair to his client as the SCA and the gas station owner south of his client (180 E. 156th Street) also had responsibility for the groundwater contamination which was found. I told Mr. Yudelson that the contamination under the SCA (Department of Education) property was a separate environmental

case and was MGP waste, not gasoline. I added that I couldn't remember the SCA being involved in an investigation whereby they charged the DEC under the PIN case. Then Mr. Yudelson stated that he wasn't sure they were involved in the investigation of the contamination from his client's site. However, he said, he had Sanborn maps which showed that the property to the south of his client's (180 E. 156th Street) had been a filling station and that they had their own contamination as a result. From the case notes, I told Mr. Yudelson that a GPR survey had been done in the past for the neighboring property. No tanks or piping were ever found. Mr. Yudelson commented that they may have removed the equipment. He added that it wont look good for the DEC if they go to court. Mr. Yudelson also stated that his client can't make a profit with the parking garage and so he is looking to sell the property. He didn't know what would happen after that point. After this, the conversation ended.

8/25/14 − Raphael Ketani. I sent an e−mail to Ms. Ong and Mr. Yudelson regarding the status of the access agreement.

8/26/14 − Raphael Ketani. Today Ms. Ong sent me the executed access agreement. It was effective on 8/19/14.

9/11/14 − Raphael Ketani. Today I received an e−mail from Mr. Yudelson (dyudelson@sprlaw.com/direct (646) 378−7219/cell (917) 295−6449/office (212) 421−2150) stating that Ms. Ong had left the DOE law division and that he has been trying without success to move the project forward, but no one has taken over the case there. He asked that I reach out to them in order to get things moving.

I contacted the DOE law division (212) 356−2309 and spoke to a receptionist. She took my name and contact information and told me she would give my message to Susan Amron, chief of the division.

A little while later, Chris King (cking@law.nyc.gov) of the law division contacted me. He said that he will help get things moving, but he was only temporarily handling the case. I told him that would be fine. I sent him an e−mail with Mr. Sherwood's (631) 321−4500/cell (516) 242−4981, Lee Guterman's (718) 472−8502 contact information and Mr. Yudelson's contact information.

9/18/14 − Raphael Ketani. Mr. Yudelson contacted me via email and stated that no progress is being made regarding the project because no one at DOE contacted him. I found out that Bernie Orlan (cell (347) 386−4418) is the DOE contact for school property access. I left a message for Mr. Orlan requesting that he coordinate access with Mr. Yudelson and the DEC.

9/29/14 − Raphael Ketani. Mr. Yudelson sent me an e−mail stating that everyone met at the site and the wells under the school were installed this past weekend. Groundwater will be sampled in about a couple of weeks.

11/25/14 − Raphael Ketani. Mr. Yudelson sent me an e−mail stating that the sampling took place and now he is waiting for the results.

1/9/15 − Raphael Ketani. Yesterday, Mr. McEachern (cell (516) 242−4981) sent me two figures and 7 analytical reports for work that took place during 2014. The reports included the Phoenix Environmental Labs April 2014 analytical reports which had already been received and reviewed. The two figures were drawings that had also been received and reviewed.

I reviewed the Phoenix analytical report dated 7/11/14 for the groundwater samples which had been collected on 6/26/14. The wells sampled were MW−18, GW−1, GW−2, MW−15, MW−28, MW−9, MW−8, GW−5, GW−4, MW−22 and GW−7. The results for MW−18, GW−1, GW−2 MW−15, GW−5 and GW−4 consisted of almost on VOC hits and only a small number of low exceedences for the SVOC analytes.

MW−28: 2 extremely high (1000 ppb or higher) VOC hits from 1100 ppb to 1490 ppb; 3 very high (250 ppb to 999 ppb) VOC hits from

390 ppb to 860 ppb; 2 moderate (26 ppb to 99 ppb) VOC hits; rest of the VOCs non−detect; there was a 120 ppb SVOC hit for naphthalene, but the rest were non−detect. MW−9: 3 moderate VOCs; 8 low (0.1 ppb to 25 ppb) VOCs; rest non−detect; the SVOCs were mostly non−detect with some low exceedences. MW−8: 1 high (100 ppb to 249 ppb) VOC, 3 moderate VOCs, 5 low VOCs; rest non−detect; the SVOCs were almost entirely non−detect. MW−22: 4 very high VOCs (270 ppb to 770 ppb); 2 high VOCs; 4 moderate VOCs; 2 low VOCs; rest non−detect; the SVOCs were almost entirely non−detect with some low exceedences. GW−7: 1 moderate VOC; 10 low VOCs; rest non−detect; the SVOCs were almost entirely non−detect with 1 low exceedence.

Next, I reviewed the Phoenix analytical report dated 7/24/14 for groundwater samples that were collected on 7/2/14.

MW−23: almost entirely non−detect; the rest below the TOGS 1.1.1 standards. MW−24: 3 very high analytes to 530 ppb; 110 ppb naphthalene; 4 moderate VOCs; rest low hits or non−detect. MW−26: 1100 ppb ethylbenzene; 5 high VOCs from 100 ppb to 560 ppb; 1 moderate VOC; rest low hits or non−detect. MW−24A: low hits and the rest non−detect.

I reviewed the 8/13/14 Phoenix analytical report for blanks dated 7/2/14 that were analyzed. There were no detections in the blanks.

The Phoenix report dated 10/6/14 was reviewed for samples that were collected on 9/26/14. The borings sampled were GW−17 and GW−18. Each was sampled at the 0−5 foot, 5−10 foot and 10−15 foot intervals. Later, these borings were finished as wells.

GW−17 (0−5): elevated PAHs but not much above the limits; VOCs were not tested for.

(5−10): VOCs well below the limits; no SVOCs

(10−15): no SVOCs; VOCs were not tested for GW−18 (0−5): 110000 ppb naphthalene, 38000 ppb 2−methylnaphthalene; benzo series SVOCs and

their combustion products 9000 ppb to 21000 ppb; other SVOCs 7700 ppb to 75000 ppb

(5−10): VOCs well below limits; moderate VOCs and 610 ppb naphthalene; benzo series SVOCs slightly greater than limits with naphthalene 2900 ppb

(10−15): SVOCs non−detect; VOCs not tested for

GW−17 (gw): 2994 total xylenes; 5 VOCs high to very high (up to 950 ppb);moderate VOCs; rest non−detect GW−18 (gw): 2500 naphthalene; 4 high VOCs; total xylenes 260 ppb; rest non−detect

Lastly, I reviewed the Phoenix 10/8/14 report for groundwater samples that were collected on 9/26/14. The wells sampled were GW−2, GW−4, GW−5, GW−7, GW−12, GW−14, GW−15, GW−16, MW−8, MW−9, MW−18, MW−22, MW−23, MW−24, MW−25, MW−26 and MW−28.

GW−2: 3 high VOCs; 3 moderate VOCs; 5 low VOCs; 5 non−detect; low SVOC exceedences GW−4: 3 very high VOCs 300 ppb to 530 ppb; 1 high VOC; 4 moderate VOCs; 3 low VOCs; 4 non−detects; SVOCs all non−detect GW−5: 1 high VOC; 3 moderate VOCs; 6 low VOCs; 6 non−detects; SVOCs almost all non−detect GW−7: 3 very high VOCs 280 ppb to 580 ppb; 2 high VOCs; 4 moderate VOCs; 3 low VOCs; 4 non−detects; SVOCs almost all non−detect

GW−12: 6 extremely high VOCs 1200 ppb to 12200 ppb; 3 very high VOCs; 2 moderate; l low; 4 non−detect; SVOCs 1300 ppb naphthalene and 810 ppb 2−methylnaphthalene; rest of the SVOCs non−detect GW−14: 1 extremely high VOC to 2800 ppb; 2 very high VOCs; 2 high VOCs; 4 moderate VOCs; 2 low VOCs; rest non−detect; naphthalene non−detect; 260 ppb 2−methylnaphthalene; other SVOCs non−detect GW−15: 3 moderate VOCs; 7 low VOCs; 6 non−detect; SVOCs low exceedences and low hits GW−16: 2 high VOCs; 2 moderate VOCs; 4 low VOCs; 6 non−detects; 8.4 ppb naphthalene; 3 ppb 2−methylnaphthalene; rest of the SVOCs non−detect MW−8: 1 extremely high VOC 1280 ppb; 4 very high VOCs; 5 moderate VOCs; 4 low VOCs; 1 non−detect; 34 ppb naphthalene; SVOCs almost entirely non−detect MW−9: 4 moderate VOCs; 7 low VOCs; 5 non−detects; naphthalene 11 ppb; 2.1 ppb 2−methylnaphthalene; rest of the SVOCs non−detect MW−18: 3 very high VOCs; 1 high VOC; 3 moderate VOCs; 3 low VOCs; 5 non−detects; SVOCs almost entirely non−detect MW−22: 4 extremely high VOCs 1100 ppb to 3400 ppb; 2 very high VOCs (380 ppb naphthalene); 3 high VOCs; 1 moderate VOC; 2 low VOCs; 4 non−detects; 250 ppb naphthalene; 29 ppb 2−methylnaphthalene; other SVOCs non−detect MW−23: 3 moderate VOCs; 6 low VOCs; 7 non−detects; SVOCs mostly non−detect with some low exceedences MW−24: 3 moderate VOCs; 7 low VOCs; 6 non−detects; 6.8 ppb naphthalene; 1.9 ppb 2−methylnaphthalene; rest of SVOCs almost entirely non−detect with some low exceedences MW−25: 1 extremely high VOC 1180 ppb; 5 very high VOCs (280 ppb naphthalene); 2 high VOCs; 2 moderate VOCs; 3 low VOCs; 3 non−detects; 160 ppb naphthalene; 84 ppb 2−methylnaphthalene; the rest of the SVOCs non−detect MW−26: 4 moderate VOCs; 6 low VOCs; 6 non−detects; all SVOCs non−detect MW−28: 3 very high VOCs; 3 high VOCs; 3 moderate VOCs; 3 low VOCs; 4 non−detects; SVOCs all non−detect except 39 ppb naphthalene

Subsequent to my review of the data, I noted a number of deficiencies regarding the submission of the data:

1) maps were not provided for the June−July 2014 sampling or the September 2014 sampling which showed the total BTEX concentrations and the groundwater elevations. 2) there was no cover letter describing the work that had taken place nor the locations of GW−17 and GW−18. 3) there were no data summary tables which would have made the review much easier. 4) emails attached to the ends of some of the analytical reports described a number of instances of labeling problems whereby the samples indicated on the Chain of Custody sheets didn't match the bottle lables. 5) there was at least one instance of samples being held past the holding time because the lab was waiting for Mr. McEachern to get back to them regarding which samples had been delivered. 6) one email indicated that the sampling times were not indicated on the Chain of Custody form. 7) the data reports were very late and the results for the fourth quarter 2014 sampling round were never submitted.

I sent an email to Mr. McEachern and C−C'd Mr. Yudelson with the deficiencies and requesting that the missing information be provided, including the fourth quarter 2014 results.

1/30/15 − Raphael Ketani. I reviewed the SVE Extraction/Air Sparging Pilot Test Report dated 1/16/15. The tests were conducted on 7/2/14. The SVE test was run to see whether it was possbile to extract gasoline vapors from the subsurface. The AS test was run in order to see the feasibility of injecting air into the groundwater. Both tests had limited success. Vapors could be extracted and air could be injected. Proposals were sent to Regenesis and Clean Ox regarding the use of treatment solutions for removing the contaminants. However, both companies declined to write proposals.

The blower was installed on GW−6. Before starting the test, water levels were checked at GW−2, 6, 7, 15, 16 and MW−22. An attempt was made to measure the vacuum at GW−7 and MW−22, but no vacuum was detected. A compressor was installed at SP−1 and SP−2. The groundwater levels were measured at GW−2, 7, 15 and 16 and MW−22. No groundwater level changes were seen. PID measurements were done at the pressure side of the SVE blower and the results were non−detect. Four (4) vapor samples were taken using Tedlar bags and the samples were tested via method 8260 for BTEX at the ppb concentration. The results for benzene were entirely non−detect. The results for ethylbenzene were mostly non−detect. Toluene and xylene were very low. The results suggest that fresh air was flowing beneath the garage floor and mixed with the SVE flow. The estimated yearly vapor recovery was 1.37 lbs.

Obstacles to the SVE method were the heterogeneous nature of the fill below the site and the presence of silt, clay and cohesive material which do not readily pass air. Adding additional blowers and additional sparge points could improve the results and the remediation of the product. However, the soil would continue to release gasoline into the groundwater and achieving the groundwater standards would not be likely. No other methods are viable. Excavation would have the greatest success at remediation, but the garage would have to be demolished.

Next, I reviewed the Installation of Monitoring Wells on NY City School Property Report dated 1/16/15. The wells were installed on 9/29/14. Previous investigations in the area revealed soil and groundwater contamination from the MGP waste. Wells GW−17 and GW−18 were installed. The borings were drilled to 15 feet below the concrete slab which supports the schools. Fill was encountered with glass, coal ash and brick with a tar like odor. No product or gasoline odors were encountered. Soil samples taken at 0−5 feet, 5−10 feet and 10−15 feet from each boring were analyzed via method 8270. The soil sample from 5−10 feet was also analyzed via method 8260 as this is the depth of the water table. The screens were 10 feet long. Three soil samples and 1 groundwater grab sample were collected from each boring. The groundwater samples were tested via method 8260 only as there was too much fine material in the samples for 8270 analysis. The results did not indicate contamination from gasoline. The soil and groundwater results are consistent with historical contamination at the school site. MC Environmental recommends surveying the wells in order that a groundwater flow map can be drawn. Also, they recommend developing the wells. If no gasoline indicators are detected after 2 rounds of sampling, then they recommend that the wells be abandoned.

Analytical results: SOIL: GW−17 = 5’−10’ very low VOC hits

0’−5’ low excedences of most benzo series SVOCs, naphthalene was non−detect

5’−10’ and 10’−15’ completely non−detect

GW−18 = 5’−10’ very low VOC hits

0’−5’ extremely high exceedences for benzo series SVOCs in the tens of thousands of ppb, along with tens of thousands of ppb for most other SVOCs, naphthalene was 110,000 ppb

5’−10’ all low hit SVOCs

10’−15’ mostly non−detect

GROUNDWATER: GW−17 = 2994 ppb total xylenes, 910 ppb ethylbenzene, 810 ppb 1,2,4−

trimethylbenzene, 150 ppb naphthalene, 5 other VOCs from 12 ppb to 150 ppb

GW−18 = 260 ppb total xylenes, 210 ppb ethylbenzene, 150 ppb 1,2,4−trimethylbenzene, 2500 ppb naphthalene, 150 ppb benzene, 4 non−detects

−−

My interpretation of the soil analyses is based upon the very high SVOC concentrations at and just below the surface of location

GW−18. This is characteristic of historical fill, which is characteristic of this former Metro North train yard site. The high naphthalene hit at GW−18 is due to the presence of some MGP waste at this location.

However, from the groundwater analyses, I determined that there is some old gasoline contamination. This probably came from the parking garage site which is upgradient.

Monitoring of the site needs to continue no sooner than 1 month after the wells are developed. A groundwater flow map needs to be drawn.

5/7/15 − Raphael Ketani. I tried to contact Mr. Yudelson (dyudelson@sprlaw.com/direct (646) 378−7219/cell (917) 295−6449/office (212) 421−2150) regarding progress at the site, but could only leave a voice mail message. As direct contact was not successful, I also sent him an email.

Later, Mr. Yudelson sent me an email stating that he has reached out to Mr. McEachern in order to find out when the next round of groundwater results will be available.

6/1/15 − Raphael Ketani. I reviewed the Phoenix Environmental Laboratories 4/17/15 analytical report. Nineteen wells were sampled on 4/8/15. These wells were GW−1, 2, 4, 5, 7, 9, and 14 to 17, MW−8, 18, 22 to 26 and 28.

The results for GW−1, 2, 4, 5, MW−18, MW−23 and MW−24 were either completely non−detect or almost entirely non−detect with no more than several very low to low VOC hits (0.1 ppb to 24 ppb). GW−7 had 8 very low to low VOC hits. GW−16 had only 10 very low to low VOC hits. MW−26 had 10 low VOC hits and 1 moderate VOC hit (25 ppb to 99 ppb). GW−15 had 12 very low to low VOC hits and 2 moderate hits.

GW−9: 11 very low to low VOC hits, 1 moderate hit, 100 ppb ethylbenzene, 130 ppb m&p xylene GW−17 (under the school): 12 very low to low VOC hits, 3 moderate hits, 130 ppb 1,2,4−trimethylbenzene, 180 ppb m&p xylene MW−8: 7 very low to low VOC hits, 2 moderate hits, 1 high hit, 520 ppb 1,2,4−trimethylbenzene

MW−28: 11 very low to low VOC hits, 210 ppb m&p xylene, 220 ppb 1,2,4−trimethylbenzene GW−18 (under the school): 7 very low to low VOC hits, 3 moderate hits, 2 high hits, 1 extremely high hit (1200 ppb) MW−25: 3 low VOC hits, 1 moderate hit, 2 high hits, 1 very high hit, 4 extremely high hits (710 ppb to 1700 ppb) GW−14: 4 very low to low VOC hits, 1 high hits, 6 extremely high hits (630 ppb to 3100 ppb) MW−22: 2 very low to low VOC hits, 1 high hit (100 ppb to 199 ppb), 4 very high hits (200 ppb to 500 ppb), 4 extremely high hits (1700 ppb to 5500 ppb)

The SVOC results for all of the samples were entirely non−detect. The results for GW−17 and GW−18 were greatly improved over the previous sets of results.

6/22/15 − Raphael Ketani. I spoke to Mr. Yudelson (dyudelson@sprlaw.com/direct (646) 378−7219/cell (917) 295−6449/office (212) 421−2150) today regarding the work that has to take place at the site. He restated that the ultimate plan by the prospective purchaser is to dig out the contamination within the foot print of the garage. Mr. Yudelson added that the prospective purchaser may want to do an ORC treatment before the excavation. I told Mr. Yudelson that this would be fine, but that the Department would need a small work plan explaining the work that will take place. Mr. Yudelson said that this would be done. I also told him that at least two additional rounds of groundwater sampling will need to take place after the excavating in order to understand the extent that the groundwater is still contaminated or that the groundwater has cleaned up. Mr. Yudelson said that he was thinking

that this should be done, too. I added that any wells outside the perimeter of the garage that are damaged by the excavating must be replaced. Mr. Yudelson said that this will be done.

8/24/15 − Raphael Ketani. I sent an email to Mr. Yudelson today. I asked him whether the site had been purchased and dug out or whether Penta One Realty still owned it and nothing was taking place regarding site remediation or monitoring.

9/2/15 − Raphael Ketani. Mr. Yudelson replied by email to my 8/24/15 email. He stated that the buyer did sign a contract of sale. Right now, he wrote, the buyer is working on a development plan. Mr. McEachern did a round of groundwater sampling recently and the report should be available soon.

10/28/15 − Raphael Ketani. I reviewed the MC Environmental, LLC 10/22/15 summary of July 2015 Quarterly Monitoring Report. A total of 20 wells were sampled during 7/27/15 and 7/28/15. The wells sampled were GW−1, 2, 4, 5, 7, 12, 14 to 18, MW−8, 9, 18, 22 to 26 and 28. Groundwater flow was determined to be towards the schools east of the garage.

BTEX results were shown on Figure 2 of the report for the 4/8/15 and 7/27/−28/15 rounds. However, BTEX alone is not sufficient for showing the full extent of the groundwater contamination. According to the laboratory analytical report contained in the Quarterly Monitoring Report, the total VOC and total SVOC results for the samples from wells GW−1, 2, 4, 5, 7, 15, 16, MW−9, 18, 23, 24 and 26 were either entirely non−detect or low in concentration and not indicative of significant groundwater contamination.

The BTEX and higher VOC analyte concentrations for the sample from GW−17 totaled 305 ppb. The higher concentration analytes included 1,2,4−trimethylbenzene at 120 ppb, 1,3,5−trimethylbenzene at 21 ppb, naphthalene at 48 ppb and n−propylbenzene at 46 ppb. The BTEX plus higher VOC analyte concentrations for the sample from GW−18 totaled 2428 ppb. The higher concentration analytes included 1,2,4−trimethylbenzene at 90 ppb, 1,3,5−trimethylbenzene at 27 ppb, naphthalene at 1800 ppb and n−propylbenzene at 10 ppb. The high naphthalene result and the presence of benzene and the xylenes were more indicative of MGP waste, which was supposedly encapsulated below the school.

The groundwater samples with significant contamination were as follows:

MW−25: 520 ppb 1,2,4−trimethylbenzene, 74 ppb 1,3,5−trimethylbenzene, 0 ppb benzene, 600 ppb ethylbenzene, 1540 ppb total xylenes, 220 ppb naphthalene, 120 ppb n−propylbenzene, 46 ppb toluene − total 3120 ppb BTEX + higher VOCs MW−28: 1100 ppb 1,2,4−trimethylbenzene, 120 ppb 1,3,5−trimethylbenzene, 0 ppb benzene, 560 ppb ethylbenzene, 1430 ppb total xylenes, 150 ppb naphthalene, 140 ppb n−propylbenzene, 0 ppb toluene − total 3500 ppb BTEX + higher VOCs GW−12: 3500 ppb 1,2,4−trimethylbenzene, 1200 ppb 1,3,5−trimethylbenzene, 0 ppb benzene, 15.7 ppb ethylbenzene, 10 ppb total xylenes, 72 ppb naphthalene, 390 ppb n−propylbenzene, 0 ppb toluene − total 5188 ppb BTEX + higher VOCs MW−8: 1500 ppb 1,2,4−trimethylbenzene, 420 ppb 1,3,5−trimethylbenzene, 9.9 ppb benzene, 1000 ppb ethylbenzene, 4000 ppb total xylenes, 210 ppb naphthalene, 120 ppb n−propylbenzene, 120 ppb toluene − total 7380 ppb BTEX + higher VOCs GW−14: 3400 ppb 1,2,4−trimethylbenzene, 810 ppb 1,3,5−trimethylbenzene, 0 ppb benzene, 1200 ppb ethylbenzene, 6000 ppb total xylenes, 660 ppb naphthalene, 270 ppb n−propylbenzene, 89 ppb toluene − total 12,429 ppb BTEX + higher VOCs MW−22: 3300 ppb 1,2,4−trimethylbenzene, 790 ppb 1,3,5−trimethylbenzene, 0 ppb benzene, 1400 ppb ethylbenzene, 8600 ppb total xylenes, 570 ppb naphthalene, 320 ppb n−propylbenzene, 320 ppb toluene − 15,300 ppb total BTEX + higher VOCs

I found the report to be acceptable. However, there was one deficiency which was the lack of historical data tables with which to compare the results from round to round. Also, Mr. McEachern indicated in the report that he didn’t believe it was necessary to have so many wells for the groundwater monitoring. He wanted to abandon some wells, or, at least, not sample them as often as in

the past.

I considered his request regarding the wells and came to some decisions. From the results shown in the laboratory analytical report, there is high groundwater contamination at MW−8. However, this location is in the sidewalk and, from the project manager's professional experience, remediating the contamination here where there are utilities (or at least the utilities are very near) is not feasible. As regards the high concentrations at MW−25, total xylenes were 1540 ppb and benzene was 0 ppb. This suggests, along with the other VOC exceedences, the presence of old gasoline at an isolated location. According to Kevin Yaghoubi (212) 426−8400, myumdc@gmail.com, the parking lot at 180 East 156th Street will be developed. So, some of the contaminated soil may be removed. Mr. Yaghoubi's company is Upper Manhattan Development Corp., 1677 Lexington Avenue, NY, NY, 10029. Thus, the groundwater contamination at MW−25 is not a great concern. The sample results for wells GW−17 and GW−18 seem to indicate the presence of MGP waste, and so are not useful for monitoring the gasoline groundwater contamination from the garage.

This reduces the area of concern to the locations of wells GW−12, GW−14, MW−22 and MW−28 in the southeast corner of the garage. These wells are also near well MW−27 which has continued to have product. I determined that this was the area that the owner and Mr. McEachern needed to address. I sent an email approving the report and asking for the historical data tables with the October 2015 results. I also stated that the Department was granting the requests of Matel Realty and MC Environmental for abandoning wells GW−1, GW−17, GW−18, MW−8, MW−18 and MW−23 to MW−26. Lastly, I asked for documentation showing that the wells were abandoned properly.

11/25/15 − Raphael Ketani. Mr. Yudelson sent me an email stating that the garage property had been sold. He will send me the contact information.

Later, I checked ACRIS and found out that there was a new deed with a date of 11/23/15 for DAGNY Enterprises, LLC.

12/14/15 − Raphael Ketani. I sent an email to Mr. Yudelson requesting the new owner contact information and asking him whether he had made it clear to the new owner(s) that the soil contamination needed to be dug out and groundwater sampling needed to be continued.

Mr. Yudelson responded today and wrote that he will send the contact information very soon. He also stated in his email that he had informed the new owner about the need to excavate the soil contamination and continue the groundwater sampling.

12/15/15 − Raphael Ketani. Mr. Yudelson sent me the new owner's contact information:

DAGNY Enterprises, LLC, c/o Penny Hart, 200 East End Avenue, NY, NY, 10128 (pennyhart@aol.com). The purchaser's attorney was John H. Lee, Esq. of McNicholas & Lee, P.C., 240 West 38th Street, 2nd Floor, NY, NY, 10018, (212) 302−3999/john@m−l−c−lawyers.com.

12/17/15 − Raphael Ketani. As the ownership has changed and there still is product on the water table and high soil contamination, I sent a STIP to Ms. Hart at DAGNY Enterprises, LLC with a due date of January 15, 2016 for the return of the signed STIP.

12/21/15 − Raphael Ketani. On 11/19/15, Mr. Lee had sent an email to a fellow co−worker, Tim Demeo (Environmental Engineer II in the Spills Unit), requesting that he close spill #1215394, which was opened due to integrity test failures during January 2013 for the 4,000 gallon AST in the partial basement (see the 1/22/13 and other January 2013 case notes for spill #0551708). Mr. Lee stated that this spill case was inaccurate and contradicted by the physical activity of the subject property as well as DEC

records. Mr. Lee continued by explaining that the tanks and piping had been removed earlier. So nothing could be tested during 2013. Mr. Lee thought the spill case had been closed since September 12, 2006 and was later reopened. Mr. Demeo reviewed the information that Mr. Lee had provided and closed the spill case.

Later, on 12/17/15, Mr. Lee sent me an email requesting a conference call or a meeting in order to discuss why spill case #0551708 (this spill) was still open. He stated that he thought that the spill had been closed on November 20, 2015.

In response to Mr. Lee's emails, I sent him an explanation by email stating that there still was soil and groundwater contamination on site that needed remediation (see the 12/21/15 email). So the spill case could not be closed. I also stated that product must continue to be collected weekly at the well in the southeast corner of the property which has always had product. Lastly, I stated that quarterly groundwater sampling must continue. I attached to this email the same Stipulation Agreement that I had sent earlier to Ms. Hart. The deadline for the submission of the signed Stipulation remained as January 15, 2016.

12/28/15 − Raphael Ketani. Today I received the green return card for the Stipulation Agreement that had been sent out on 12/17/15. Thomas Golan had signed the card on 12/23/15.

1/20/16 − Raphael Ketani. Mr. Lee sent me an angry email stating that he thought spill case #0551708 should be closed. He also stated that he didn't understand how a tank could be integrity tested during 2013 when all of the tanks had been removed. He demanded a meeting to clarify the matter and threatened legal action (see DECdocs). He also remarked that because of the one open spill (#1215394), his client had to put $950,000 in escrow. Mr. Lee made the statement Before you try to shove the Stipulation that imposes serious obligations and liability down the throat of the innocent principals of Dangy, there should be a clear and transparent disclosure of all details regarding the open spill as well as why the DEC website stated that it was closed as early as November of 2015. [I looked up the spill closure date for the spill #1215394 and it is November 24, 2015.]

1/21/16 − Raphael Ketani. I checked PBS record #2−610694. There is still only 1 tank registered. It is a 4,000 gallon UST which used to contain gasoline, but is now unregulated. This is the UST that is outside the garage footprint, but adjacent to its northeast corner. The removed four 550 gallon USTs and the existing 5,000 gallon AST (all within the garage footprint) were never registered.

1/27/16 − Raphael Ketani. An email was sent by Mr. Urda to Mr. Lee stating the work that was required to be performed at the site and some of the facts about the contamination and attempts at remediation in the past.

The email was as follows:

Site investigative work to date indicates dark soil staining and petroleum odors present at about 30 to 35 below grade, with bedrock at depths from about 35 to 44 feet. Some of the onsite wells are screened from 22 to 35 feet below grade.

The prior owner gauged groundwater monthly, and sampled groundwater for VOC analyses quarterly. A pilot test of the remedial method of air sparging/soil vapor extraction was conducted, but the results indicated that this would not be an effective means of remediation due to the varied character of the soil at the site and the resulting low product collection amounts. The Department suggests excavation as a remedial method for removing the contamination. This method has the advantage of removing the source − petroleum contaminated soil − and thereby quickly bringing the spill case to closure.

In addition to spill remediation, which will be governed by the Stipulation Agreement, the following work needs to take place:

1) The four 550 gallon gasoline USTs that were removed during 2007 must be registered in site's petroleum bulk storage facility, PBS record #2−610694. 2) The 5,000 gallon AST in the vault in the partial sub−basement must be cleaned out and abandoned in place (or removed) and then registered. 3) Product in well MW−27 needs to be collected weekly. 4) Monthly gauging reports must be submitted to the Department including the product thicknesses and the amount of product collected for each well containing product. 5) Quarterly groundwater sampling for VOC analyses: the analytical report must include a results summary table, the raw analyses from the laboratory and a groundwater flow map. Recommendations regarding future remedial measures or monitoring must be included in the report. 6)

Monitoring wells GW−17 and GW−18 (under the schools across the street) need to be abandoned in accordance with the CP−43 after permission is obtained from the NYC School Construction Authority in order to enter the property.

A groundwater well map and a groundwater flow map were included as attachments to the email.

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Later today, a conference call took place with Mr. Lee (212) 302−3999/john@m−l−c−lawyers.com, Mr. Urda and myself. Mr. Lee had asked for the conference call in order to understand what was required by DEC in regards to remediating the spill. The conference call was technical.

I explained to Mr. Lee that removal of the contaminated soil would greatly reduce the groundwater contamination such that the post excavation results would likely be either non−detect or very low. I explained that the groundwater had to meet the TOGS 1.1.1 standards. I added that this would result in closure of the spill case after the Department receives two rounds of groundwater sample results with low concentrations. Also, I stated that by digging out the soil near MW−27, the groundwater and oil should empty into the area that was being excavated. This will aid in finishing the collection of the product and aid in remediating the site. Mr. Lee asked where his client would have to excavate. I told him within the southern half of the footprint of the garage. I added that the soil contamination was at about 30 to 35 feet down and so the excavating would have to go this far. Mr. Lee stated that he would use the environmental contractor Windmill. He added that he had used this company before on another project and had good results. I told Mr. Lee that he should be sure the staff at Windmill understand the State and local environmental regulations and laws and that they know the TOGS 1.1.1 standards and the soil cleanup standards. Mr. Lee stated that he would do this. He also stated that he believed he had to submit a document to the Department. I told him that he was correct. A remedial action work plan (RAWP) needed to be submitted to the Department explaining what his client and the contractor plan to do. I also asked Mr. Lee to keep staff at the Department informed regarding progress at the site. Mr. Lee stated that he would do this. With that, the conversation ended.

5/20/16 − Raphael Ketani. As there have been no submissions or emails from Mr. Lee, or his consultants, in 4 months, I gave him a call ((212) 302−3999/john@m−l−c−lawyers.com). However, I could only reach his receptionist. So I left my name and number and the subject of my call. She said that he was in a conference and will call me back.

Mr. Lee called me back. He said that he had just received the proposal from the excavator (company that would do the digging). The proposal includes plans for the shoring, underpinning and other features involved in soil removal and site safety. They will excavate down to 35 feet. I told Mr. Lee that this is good as this is where most of the contamination lies. The plans took a long time as the property slopes in all directions. Mr. Lee said that he is presently preparing the scope of work. He expects to finish it and submit it to the DEC by sometime next week. Mr. Lee added that the budget from the contractor is $3.5 million.

However, the owner only has $1 million in escrow. So Mr. Lee is looking for a way to finance the rest of the money. He found that the NYC Urban Housing Development office makes low interest loans to developers for housing that will include low income units. The type of building that will be constructed qualifies for the program. So, Mr. Lee intends to apply to them for the money, though the plans for development include a mixed residential and commercial building (parking garage in the sub−basement). This requires a zoning change. Mr. Lee talked to the NYC zoning office and found out that zoning changes take about 1 year. He then asked me whether I could expedite the change. I told him to send me the contact information for the person in the zoning office who will review the plans and I will send a letter requesting that the change be expedited so that the remedial work can take place. However, I told Mr. Lee that I couldn't guarantee that this will make the process go faster. Mr. Lee said that he understood and that he will get me the information next week.

6/23/16 − Raphael Ketani. As the plans had not been submitted, I sent Mr. Lee ((212) 302−3999/john@m−l−c−lawyers.com) the following email:

It has been one month since you had called the Department on 5/20/16. You had stated that the ˆplans˜ for the remediation of the spill (spill #0551708) would be sent the following week. As of the date of this email, the Department has not received the Remedial Action Work Plan (RAWP). Also, we have not received any progress updates. We are concerned that no remedial work is taking place and can only assume that this is the case as there is no proof to the contrary.

May I remind you that your client, DAGNY Enterprises, LLC, was sent a Stipulation Agreement (Stip) on 12/17/15 with a due date of January 15, 2016. The Stip was sent to Ms. Hart. The green return card had been signed by Thomas Golan on 12/23/15.

The Corrective Action Plan, which is part of the Stip (see attached), states that the RAWP must be submitted within 30 days of the effective date of the Stip. Though the original signed Stip was never returned, DAGNY Enterprises, LLC is still bound by the Stip as they have received it. As we have not received the RAWP, DAGNY Enterprises, LLC is in violation of this Stip. Please submit the Remedial Action Work Plan by email by July 8, 2016 or your client can and may face legal actions and fines.

7/11/16 − Raphael Ketani. Mr. Lee sent me an email with attachments on 7/8/16. In his email he stated:

I apologize for my late response but due to family issues, I have been putting out fires for the past two weeks. I have been working on the RAWP since we last spoke and have gathered a development team that is currently working on the plans for demolition and excavation to remove the contaminated soil going down to approximately 35 feet for the entire lot and even deeper in areas with further soil contamination. We will have an environmental engineer on site to monitor the soil during the excavation.

As I have stated during our last conversation, the sole principal of DAGNY, Ms. Panny Hart is committed to extract all the contaminated soil as quickly as physically possible. However, the actual design and approval process together with actual funding to undertake the entire project is taking longer than expected.

We have not retained an environmental engineer at this time since we have not received any approval for the actual demolition plans from the NYC Department of Buildings as well as funding from the NYC Urban Housing Development.

In the meantime, I will have Ms. Hart sign the required stipulations and commitments required by DEC.

Please advise us on how we should proceed to address the environmental issues in the interim during the period that we are

seeking approvals and funding. Ms. Hart has committed to developing this site for NYC’s affordable housing units and is expected to receive 90% of the funding from the NYC and NYS.

−−− The attachments to Mr. Lee’s email included plans for the development of the site, a letter from Choi Design Consulting Inc. (architects), a letter from NY Construction Work Inc (excavation work, foundation work, shoring, under pinning, slav concrete) and a Phase I report from Odelphi Environmental Inc.

I responded today to Mr. Lee’s email. I stated that the work indicated in Mr. Urda’s 1/27/16 email to him must still take place.

7/12/16 − Raphael Ketani. Mr. Lee sent me an email requesting that the DEC not require any environmental work to be performed (i.e. collection of product) until the building demolition, site excavation and development take place. He also stated that all of the oil tanks had been registered. A 11/3/15 P.W. Grosser Summary of Environmental Conditions report was attached to the email. In the report, the four 550 gallon gasoline USTs and the 4000 gallon gasoline UST in the southeast corner of the 757 Concourse Village West property were discussed.

I researched the PBS registration for the site. I looked for registrations under the following addresses: 751 Concourse Village West; 757 Concourse Village West; 173 East 156th Street. I found only PBS case #2−610694 for 751 Concourse Village West. The PBS case listed only a 4,000 gallon UST that had contained gasoline, but was now converted to non−regulated use. In the above case notes, I did find notes that confirmed the existence of an AST in a partial basement below the garage office. One note stated that the tank had a capacity of 5000 gallons. Another note stated that the tank had a capacity of 2000 gallons. I had seen the tank for myself a few years ago and noted that it was relatively small − about 2000 gallons. Mr. McEachern of MC Environmental had informed me that there was about 15 inches of old fuel oil AST inside the basement boiler room.

I sent a response email to Mr. Lee with the information in the above paragraph of the notes. I also sent him the list of environmental remediation tasks that had been sent to him by Mr. Urda on 1/27/16 and included the following:

1) The four 550 gallon gasoline USTs that were removed during 2007 must be registered in site’s petroleum bulk storage facility, PBS record #2−610694. 2) The 5,000 gallon AST in the vault in the partial sub−basement must be cleaned out and abandoned in place (or removed) and then registered. 3) Product in well MW−27 needs to be collected weekly. 4) Monthly gauging reports must be submitted to the Department including the product thicknesses and the amount of product collected for each well containing product. 5) Quarterly groundwater sampling for VOC analyses: the analytical report must include a results summary table, the raw analyses from the laboratory and a groundwater flow map. Recommendations regarding future remedial measures or monitoring must be included in the report. 6)

Monitoring wells GW−17 and GW−18 (under the schools across the street) need to be abandoned in accordance with the CP−43 after permission is obtained from the NYC School Construction Authority in order to enter the property.

7/13/16 − Raphael Ketani. Mr. Lee sent me an email stating that the owner had retained a contractor to assist in registering the fuel tanks and abandoning the wells under the school, GW−17 and GW−18. The contractor is: Lee Selinger, Windmill Oil Tank Services, Inc., emails to Mandy@WindmillOilTankService.com, (631) 360−8901.

Mr. Lee also wanted the contact information for Mr. McEachern in order to find out whether wells GW−17 and GW−18 had been abandoned. As the case notes do not indicate that these wells were properly abandoned, I sent him information about all of the

parties who may need to be contacted in order to perform the abandonment work. They are:

Bernie Orlan (cell (347) 386−4418) − the DOE contact for school property access Mr. McEachern ((631) 321−4500/cell (516) 242−4981) − the prior garage consultant who had supervised the well installations Mr. Sherwood from Cardno ATC; (516) 650−5290) − the consultant who was involved with the School Construction Authority when SCA wells were installed below the school Kimberly Ong, New York City Law Department (100 Church Street, NY, 10007, (212) 356−2309) − she drafted the access agreement that allowed for Mr. McEachern and his crew to enter the school property and install wells GW−17 and GW−18.

7/19/16 − Raphael Ketani. Today Mr. Lee sent me an email with revised PBS registration #2−610694. The form does not show the 5000 gallon gasoline UST which is adjacent to the northeast corner of building footprint. The document was forwarded to Leszek Zielinski, EE II and head of the PBS Unit in Region 2. Mr. Lee stated in his email that they are planning to inspect the 2000 gallon heating oil AST in the partial basement under the building.

7/20/16 − Raphael Ketani. Today Mr. Lee carbon copied me on the following email to Ms. Holden of NYC Law:

Dear Ms. Holden (maholden@law.nyc.gov):

It was a pleasure speaking with you this morning and thank you for clarifying that Ms. Kimberly Ong is no longer with your office. As I have stated during our conversation, I represent the new owner of the property located at 751 Concourse Village West; 757 Concourse Village West aka 173 East 156th Street. Due to an environmental condition at the subject property, the previous owner pursuant to DEC request installed two ground wells (#17 and #18) at the school across the street and your office provided access agreement in order to grant access to the school to install the ground wells. After extensive monitoring and with evidence of non−contamination, the DEC has requested that my client take active measures to abandon the two ground wells (#17 and #18) follow the guidance in Commissioner´s Policy CP−43.

With this email, I am requesting your assistance in providing our environmental contractors with the necessary permission by a way of an another Access Agreement to formally gain access to abandon (fill the wells up with cement) the wells.

I am always available to discuss this matter and feel free to contact me on my cell at 201−786−3599 (24/7).

I thank you in advance for your assistance and cooperation.

7/21/16 − Raphael Ketani. Mr. Lee carbon copied me in an email to Mr. Leszek Zielinski, EE II and head of the Region 2 PBS Unit. He sent Mr. Zielinski a copy of the deed for the property showing his client as the current owner. He also had communicated with Tim DeMeo of the Region 2 Spills Unit on 11/19/15 regarding the tanks. Mr. Lee stated that the tanks were removed during 2007. So the PBS case was closed. Lastly, Mr. Lee stated that the environmental contractor, Windmill, had entered the basement and found that the 2000 gallon tank had been removed.

Later, Mr. Lee sent me a letter written by Windmill describing what they had found when they entered the partial basement. They saw that the 2000 gallon AST had been removed and the pipes that had been connected to the tank had been cut and filled with cement. Mr. Lee asked how the tanks that were on site should be registered. I wrote that he should contact Mr. Zielinski regarding this matter.

7/25/16 − Raphael Ketani. Mr. Lee((212) 302−3999/john@m−l−c−lawyers.com) called me today. He said that there was $950,000 in

escrow for doing environmental work. However, he was wondering whether the spill could be closed by just getting good groundwater results from MW−27. I told him that MW−27 consistently has product in it. If his consultant takes a groundwater sample from this well, the results will be very high due to the dissolved product. The spill case could never be closed with such results. I added that his consultant needed to continue to collect the product and send me a product thickness and volume report after each collection event. Mr. Lee asked whether excavating the contaminated soil could result in the closing of the spill case. I told him that until the contaminated soil is excavated, the product will never disappear. However, once the contaminated soil is removed, then the product will drain into the pit and his crew can finally capture all of the product and finish the remediation. Mr. Lee said that he understood and the conversation ended.

Later, Mr. Zielinski sent the following email to Mr. Lee:

After reviewing all information NYSDEC has, DEC attorney John K. Urda, Esq., has advised (copied on this e−mail) there is no need for registrations of tanks that had been removed before the current owner bought the property. DEC has ample evidence of the tanks at the subject property. The previous owner had attempted to register one of the tanks, but the application has not been processed since some items were missing.

1/24/17 − Raphael Ketani. Today I received an email as a C−C. The email had been sent as a response from Jeffrey Vought of DEC to Shaminder Chawla, Deputy Director in the Mayor's Office of Environmental Remediation. In the original email, Mr. Chawla had written that his office had been approached by the developer of 180 East 156th Street regarding conducting an investigation and remediating this property prior to development.

I responded directly to Mr. Chawla and told him that the property 180 East 156th Street WAS NOT where spill #0551708 had taken place. I added that this was a downgradient location. The spill actually took place at the garage at 173 East 156 Street across the street to the north.

2/22/17 − Raphael Ketani. As no information has been forthcoming regarding the site since July 2016, I sent an email to Mr. Lee((212) 302−3999/john@m−l−c−lawyers.com) requesting an update concerning remedial progress at the site. I also informed him that, as the spill has not been remediated, his client, DAGNY Enterprises, was still in violation of Section 176 of Article 12 of the Navigation Laws and the Stipulation Agreement. I set a date of March 21, 2017 for submission of the RAWP or else fines and/or legal action may be instituted.

4/14/17 − Raphael Ketani. As no information has been forthcoming regarding the site since July 2016, I sent an email to Mr. Lee((212) 302−3999/john@m−l−c−lawyers.com) requesting an update concerning remedial progress at the site. I also informed him that, as the spill has not been remediated, his client, DAGNY Enterprises, was still in violation of Section 176 of Article 12 of the Navigation Laws and the Stipulation Agreement.

6/9/17 − Raphael Ketani. I tried to contact Mr. Lee by phone, but could only reach the receptionist at the law office. I told her that the DEC had tried to reach Mr. Lee and that we never received a response back. I added that his client, DAGNY Enterprises, was in violation of Section 176 of Article 12 of the NAV Law and in violation of the Stipulation Agreement. I explained further that as it appeared that Mr. Lee's client was not taking these violations seriously, the Department is taking the next step before legal action by sending a letter requesting remedial action or else fines and legal action can and may be instituted. The receptionist said that she understood. She talked to Mr. Lee's assistant (Mr. O?) and then told me that she will give Mr. Lee the message. With that, the conversation ended.

6/12/17 − Raphael Ketani. A new Stipulation Agreement with a CAP was sent to Ms. Hart (pennyhart@aol.com) and Mr. Lee [(212) 302−3999/john@m−l−c−lawyers.com] requiring that DAGNY Enterprises, LLC conduct environmental monitoring and remedial actions in order to resolved the spill at the site. As a first step, the Department required that a representative from DAGNY sign the Stipulation and return it to the Department by June 23rd, 2017. Failure to sign and return the Stip would result in legal action and fines.

I spoke to Mr. Lee by phone this afternoon as I had heard from his assistant, Sonia Kara, that he had wanted to have a conference call to discuss the case. We set up 10 AM on 6/13/17 as the time for the call.

6/13/17 − Raphael Ketani. The conference call took place as planned. In attendance were Mr. Lee, John Urda (Region 2 DEC Assistant Regional Attorney) and myself.

Lee: We received the Stipulation Agreement. I advised my client to sign it. She'll sign it before the deadline. We originally worked with the City and the State and hired a consulting firm run by Al Damato to go through channels. We went to the Borough President's office and were discouraged from building affordable housing. We were told that there is enough affordable housing in the area. They said they wanted commercial development. We couldn't piggyback on permits for the adjoining property. So we decided to go commercial. We will have LOI get funding. There will be 3 levels of parking so that we can excavate enough for the development. My client is struggling as rent for parking doesn't even pay the real estates taxes. She is signing up clients for commercial space in order to get money. She may run out of money anyway. Is there funding with DEC in order to get money to cleanup the site?

Urda: Nothing that I know of. As long as the Stipulation Agreement is in place and your client does monitoring, then she doesn't need to do the dig out right now.

Ketani: We need a schedule. As long as your client does the monitoring and product collection and we get the reports, then this is fine.

Lee: During the past year, my client spent $90,000 for the architect and $30,000 for lobbying. We had Windmill consultants check the monitoring well and they determined that the product is coming from all over.

Urda: We want Windmill to continue monitoring and do the work plan. Submit a deadline you are comfortable with.

Ketani: The schedule can't be open ended.

Lee: We agree that there can't be an open ended spill case. We have a triple net lease for the empty property. A charter school wants to build a building there. It's a 12 month lease. This will give us funds for developing the other half of the property. We should have a response for the lease this week.

Urda: We will take another look at the Stipulation.

Lee: We are taking a look at closing the wells under the school. We just need the access agreement.

Urda: We will confirm the Stip is alright or send a revised one. (With this, the call ended.)

A Stip with the same language as the one sent on 6/12/17 was sent via email to Ms. Hart and Mr. Lee with a revised CAP. Item 1 of the CAP now stated that the RAWP must include the five tasks that were listed in the 6/12/17 cover letter which had accompanied the previously sent Stip and CAP. The five tasks must commence immediately (see above 1/27/16 case note).

6/20/17 − Raphael Ketani. Today I received the green return card that was attached to the envelope containing the Stipulation Agreement. It was signed by a person named Conner(?) and dated 6/15/17.

7/7/17 − Raphael Ketani. The Stipulation Agreement was never returned, nor was a RAWP submitted. The Department never received any reports, emails or phone calls from DAGNY Enterprises, LLC indicating that any remedial work was taking place. In light of all this, a legal referral for this spill was made today to the Region 2 Office of General Counsel.

11/3/17 − Raphael Ketani. Today, Mr. Lee [(212) 302−3999/john@m−l−c−lawyers.com] sent an email with the Stipulation. It had been signed by Ms. Hart with today's date. He wrote in his email that he would be available for a conference call with Rachel Seebacher, Assistant Regional Attorney for DEC, and myself on Thursday, November 9th.

11/9/17 − Raphael Ketani. Mr. Lee sent a CDSP Proposal dated 11/3/17 for the scope of work to be performed at the site. The work included abandoning wells MW−17 and MW−18, opening up the #6 oil AST in the partial basement, removing the contents, cleaning it, filling the tank with concrete and removing the tank from the PBS registration, collecting product weekly for one quarter from all wells where product is found, quarterly well gauging, collect groundwater samples quarterly from 18 wells, determine flow direction and submit a quarterly progress report to the DEC.

I responded to Mr. Lee by email and stated that the AST must continue to be listed on the PBS registration, except that its status will change from active or not in use to abandoned in place. I added that there is a code for this status. Additionally, I wrote that the groundwater monitoring and gauging must take place quarterly and the product collection must take place weekly until the spill is remediated by digging out the contaminated soil. Each monitoring/status report submitted to the DEC must include product thickness tables with results for each well. There must also be a product collection table (gallons) listing each well with product during that week with the cumulative total product amount listed at the bottom right hand corner. Quarterly groundwater analytical results must be presented in the reports and must include a summary table listing the STARs group of 13 chemicals plus BTEX.

−−

A conference call took place between Mr. Lee, Ms. Seebacher and myself regarding resolving the spill. Ms. Seebacher asked Mr. Lee for a Stipulation with Ms. Hart's original signature so that the Regional Attorney can sign it, the Stip can be executed and returned to Ms. Hart and Mr. Lee. Mr. Lee said that Ms. Hart would be away for 2 weeks. So, the Stip will not be signed during this time. Ms. Seebacher also told Mr. Lee that the DEC needed written confirmation that the changes and comments made by the DEC regarding the CDSP proposal were acceptable to Ms. Hart. Mr. Lee said that he will present the changes and comments to Ms. Hart. Mr. Lee also stated that the consultant had worked with the DEC, specifically myself, before and so he was sure the plan would be properly acted upon. I had no comment. Mr. Lee finished the conversation by stating that he will get the signed Stip with the original signature and the revised proposal to the DEC in 2 weeks time. Ms. Seebacher stated that if the documents are not received by November 23rd, then she will call him. With that, the conference call ended.

11/21/17 − Raphael Ketani. Ms. Seebacher [(718) 482−6471/rachel.seebacher@dec.ny.gov] sent an email to Mr. Lee [(212) 302−3999/john@m−l−c−lawyers.com] stating that she was checking on when the Department could expect to receive the Stip with the

original signature of Ms. Hart. She also asked whether the changes to the scope of work had been discussed with Ms. Hart.

There was no immediate response from Mr. Lee.

12/6/17 − Raphael Ketani. Shawan (sha−won) Edwards of Civic Builders (212) 571−7265 called today. She said that her company was interested in developing 757 Concourse Village West (the property adjacent to the north to the parking garage) and she also wanted to know the status of 751 Concourse Village West (the garage itself). She said that they were negotiating a long term lease with DAGNY. Ms. Edwards added that her purpose in calling was to verify the conditions at the properties. She said that she had received a copy by email of an approved work plan. I told her that we had approved the plan, but DAGNY is eventually supposed to excavate the building footprint in order to remove oil contamination below. I added that there were other issues, but the DEC computer system was down right now and so I couldn't tell her what they were. She said that she will call back another day.

12/7/17 − Raphael Ketani. As of today, the Department still has not received the Stip with Ms. Hart's original signature.

I tried to contact Ms. Edwards today, but could only leave a message that the Department had not received the signed Stipulation from Ms. Hart of DAGNY. I added that the Stip was a type of contract and without the contract available for our signature, the work plan was not valid.

1/10/18 − Raphael Ketani. Ms. Seebacher sent an email to Mr. Lee explaining that DEC was giving his client (DAGNY) one last chance to submit the signed Stip. If the Stip is not received ASAP, then the DEC will proceed with enforcement action regarding violations of the ECL and NYCRR.

Mr. Lee responded to Ms. Seebacher shortly after her email was sent to him. He included an attachment to his email which contained a copy of the FEDEX shipping bill for a package containing the Stipulation that was signed by Penny Hart on 11/3/17. He stated in his email that Ms. Seebacher would receive the signed Stipulation Thursday morning 1/11/18.

1/11/18 − Raphael Ketani. Ms. Seebacher [(718) 482−6471/rachel.seebacher@dec.ny.gov] sent an email to Mr. Lee [(212) 302−3999/john@m−l−c−lawyers.com] stating that the DEC had received the signed Stip and that it was forwarded to the regional director for his signature. She added that the fully signed Stip will soon be sent back to him.

1/22/18 − Raphael Ketani. Today, the Stipulation Agreement was signed by the Region 2 director, Steve Zahn, and became effective.

1/29/18 − Raphael Ketani. As of today, the Department still hasn't received the excavation RAWP, nor the groundwater monitoring and product recovery report. Also, there has been no contact by Mr. Lee.

4/5/18 − Raphael Ketani. Today, Ms. Seebacher left more phone messages with Mr. Lee's secretary. Messages left during February and March were not returned.

4/23/18 − Raphael Ketani. As of today, there has been no response from DAGNY regarding the submission of a work plan, nor the return of phone messages left by Ms. Seebacher.

05/03/18: This spill case transferred from R. Ketani to J. Kolleeny. − JK

Map Identification Number 42 **FORMER HESS STATION 32GRA** **Spill Number: 9814075** **Close Date:**
370 GRAND CONCOURSE BRONX, NY TT−Id: 520A−0011−463
AKA SPEEDWAY #1349

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1751 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION OR PBS FACILITY
Notifier Type: Affected Persons
Caller Name: BILL COLONIS
DEC Investigator: AXDORONO

Spiller: SCOTT CULLINAN − FORMER HESS STATION
Notifier Name: BILL COLONIS
Caller Agency: ENVIR0TRAC
Contact for more spill info: SCOTT CULLINAN

Spiller Phone: (610) 527−7900
Notifier Phone: (516) 586−1800
Caller Phone: (516) 586−1800
Contact Person Phone: (610) 527−7900

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
02/17/1999	03/16/2004	UNKNOWN	2−297437	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CONTAMINATED SOIL DISCOVERED DURING TANK UPGRADE

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was SUN 1/5/04 BPAmoco in operation and taking responsibility for southern half of property. Reference spill #0111974.(KMF).

11/26/2003 Reassigned from O'Dowd to Sun.

01/29/2004−Sun−File Update by Sun: Sun sent a Stipulation Agreement to Hess requiring the complete delineation of the contamination, including the restoration of MW−1 and MW−8, and submittal of the Operation, Maintenance and Monitoring Plan. The Department approves the remedial action plan prepared by EnviroTrac, dated July, 2001. The Department set a deadline of 2/20/04 for the Respondent to return the signed Stipulation Agreement. (WJS)

03/26/04− The Stipulation Agreement was signed by Hess on 03/10/04 and executed by the Department on 03/24/04. (WJS)

08/11/04−File Update by Sun: On 08/11/04 Sun approves the Investigation Plan submiited July 8, 2004 by Michael Matri, Project Manager for Hess Corp.The two soil borings/monitoring wells proposed in the Investigation Plan will be used to replace well MW−8 and will be located east and west of the former MW−8 location. The approved letter was mailed to Hess on 08/11/04. (WJS)

05/09/05−File Update by Sun: On 05/05/05, thr Department held a project review meeting with Hess' Project Manager (Mike Matri) and his consultant (EnviroTrac). Per Mike Matri, EnviroTrac has contacted Metropolitan Transportation Authority (MTA) in order to obtain access to delineate along the eastern (up−gradient) portion of the site adjacent to the MTA New York City Transit subway. Currently, Hess drilling contractor, Submmit Drilling Co., Inc., is obtaing the necessary Railroad Protective Liability Policy to satisfy MTA's insurance requirements. The delineation will be conducted once the work is approved by the MTA.(WJS)

10/27/05: Site reassigned from Sun to Andersen.

10/27/05: Reviewed the second quarterly 2005 update report dated 8/19/05. Additional delineation is still in progress.

12/6/05: Reviewed quarterly report dated 11/22/05. Six monitoring wells sampled on October 6, 2005. Max BTEX 3,309.4 ppb (MW13) and max MTBE 1,250ppb (MW13). Additional delineation delayed while waiting for MTA permit.

1/26/06: 1/25/06 meeting with Quantum, NYSDEC, and ET. Additional delineation is currently awaiting an MTA permit.

3/29/06: Received email from Thomas Bosshard of EnviroTrac : The two (2) up−gradient monitoring wells at the referenced site have been successfully installed. The new monitoring wells will be incorporated into the site's quarterly groundwater monitoring schedule with the second quarter 2006 sampling event scheduled for April 2006. The monitoring well installations and April 2006 groundwater monitoring event will be summarized in the site's next quarterly Update Report.

6/12/06: Reviewed the first quarterly 2006 update report. Groundwater samples collected on January 19, 2006. Max BTEX 6,032 ppb (MW12), max MTBE 2,830 ppb (MW12). Upgradient on−site wells installed in March. Installation of a well downgradient of MW12 and a RAP required by September 12, 2006.

6/30/06: Meeting on 6/28/06 with Hess, NYSDEC, Quantum, EnviroTrac and GSC. Hess will ask for access to the adjacent RR yard to delineate. ORC may be utilized as a remedial method.

7/12/06: Reviewed second quarterly 2006 report. ORM socks in MW12 and 13. ORC socks will be installed in MW15 and MW16. Groundwater samples collected on 4/4/06. Max BTEX 13,571 ppb (MW15). Max MTBE 964 ppb (MW12).

8/23/06: Received email from Erin Goelz of ET. Delineation not possible in the metronorth area east of the site. Delineation possible on Park Avenue, but this is far from the site. Three wells on Park Avenue were proposed. Wells not required by the Department because they are far from the site. RAP due 9/12/06.

8/29/06: Spoke with Ed Russo. A request for an extension for RAP submission will be required because pilot testing will be conducted on site. Local treatment is not feasible due to subsurface piping on site and the subway nearby. An email request for an extension will be submitted. Power supply at the site may be problematic, ConEdison will be contacted. This site is currently a BP gasoline station.

9/8/06: Received email from Ed Russo. Requested extension until November 30 to submit RAP in order to complete SVE pilot testing

on MW's 12 and 13. SVE test tentatively scheduled for October 15. ORC socks will be installed in MW 15 and 16 ASAP. Extension approved.

10/5/06: Received update report dated 9/27/06. Wells sampled on 7/13/06. Fluctuating concentrations. Max BTEX 81,251ppb (MW15), max MTBE 1,650 ppb (MW12). ORM socks installed in MW 15 and 16. Contamination may be in the bedrock. RAP due 11/30/06.

12/7/06: RAP conditionally approved. SVE will be used in six wells, STRE in MW 15 and 16 because could not trench in this area, ORC socks in six wells. Conditions of approval: 1) more agressive groundwater remedial strategy for MW MW 12, 15, 16, and 2)treatment method air effluent.

12/28/06: Reviewed update report dated 12/20/06. Fluctuating gw concentrations. Max BTEX 39,412 ppb (MW15), max MTBE 718 ppb (MW12).

1/17/07: Meeting on 1/16/07. This is the only Hess site not being transferred to Delta. A RAP addedum will be submitted addressing gw contamination.

3/13/07: Reviewed update report. Wells sampled on 1/11/07. Max BTEX 31,608 ppb (MW15), max MTBE 1,140 ppb (MW12). Fluctuating groundwater concentrations. ORM socks installed in MW9, and MW12−MW16. SVE system not installed yet. Emailed Hess, EnviroTrac regarding the SVE implementation schedule, and for details on the existing Well Stripper system on site.

3/15/07: Received email from Ed Russo: I sent you an email on 2/23 summarizing the well stripper, how it works, etc. Please confirm that you received that email. If not, I will resend it. If you did receive it and have further questions or comments, let me know and I will provide you with any additional information you may need.

As for the schedule, we are currently working with BP (who currently operates the site) in an effort to connect our system to the BP station's existing electrical system. This would obviously save a great deal of time since CONED has been very slow to provide us new power drops for some of our other recent systems. We are also working with BP on an access agreement to install the system. Once these issues have been resolved, the system will be installed. Due to the fact that most of the subsurface work is already done, the system install will be very quick once the access and electrical issues are finalized.

3/16/07: Received email from Ed Russo: attached are a picture of the well stripper and a pdf document summarizing how the well stripper works. As you discussed with Dawn Coughlin of Hess at your recent meeting, we are proposing to install permanent well strippers in MW−12 and MW−13 and bring a portable well stripper to the site for periodic full day remediation events (permanent well strippers cannot be installed in MW−15 or MW−16 since these wells are not connected to the remediation system).

The permanent well strippers within MW−12 and MW−13 will be sampled (influent and effluent) on a monthly basis during system O&M events and the portable well stripper will be sampled for influent and effluent during the periodic remediation events.

Note that we are in the process of working with BP to get access to the site to install the system. In order to expedite the install once access is obtained, we will be ordering the equipment so that we can prepare the shed to be delivered to the site once access is granted.

7/31/07: Received email from Ed Russo: GW sampling was conducted on the site about 2 weeks ago. We should get data from the lab this week and will prepare an update report for submittal to you right away. As far as the system goes, we have received approval

from BP (the current owner/operator of the site) to install the system. Our electrician is working on getting power from CONED. We have ordered all equipment and are working on building the shed in house so that once electrical power is available, we can deliver the system to the site and connect it/start it up. Once we get closer to a start date, I will be in contact with you to schedule start−up so you can be onsite if you'd like.

9/5/07: Reviewed quarterly report. Flucating groundwater concentrations. Wells sampled on 7/20/07. Max BTEX 47,580 ppb (MW15). Max MTBE 681 ppb (MW12). ORM socks replaced in MW9 and MW12 − MW16. SVE system and well strippers not installed yet. Short term remediation events planned for MW15 and MW16. Emailed Ed Russo to followup on system startup date and initiation of short term remediation events.

10/9/07: Received email from Ed Russo: we have scheduled an on−site meeting with representatives of BP, Delta Consultants (BP's consultant), and EnviroTrac for Monday October 15th. BP and Delta wanted to be fully aware of our proposed work before agreeing to let us proceed. We expect to get the approval to proceed with the sitework at that meeting.

The shed for the remediation system and the control panel have been completed in our shop and can be mobilized to the site once we obtain the access. Our electrician is ready to go and can get to the site within about a week once we obtain access and CONED involvement will be minimal since we will be connecting to BP's station electric for our system electrical requirements.

In addition, since the majority of the subsurface work was done a few years ago during the construction of the BP station, only minimal site work is required, so we expect to be able to start the system and short−term remediation events within 4−6 weeks of access approval.

I will send you an update of our progress following the October 15th meeting.

Edward E. Russo Senior Project Manager EnviroTrac Ltd. 5 Old Dock Road Yaphank, NY 11980 P: 631.924.3001 F: 631.924.5001
http://www.envirotrac.com

2/14/08: Received email from Ed Russo: We wanted to let you know that the SVE/Well Stripper system was activated at the referenced site on January 29, 2008. Preliminary data indicates that the system is effectively removing BTEX and MTBE from onsite wells. The initial start−up period will last another week or so and then system O&M will continue on a monthly basis thereafter. A full round of groundwater sampling will be conducted this month and a report summarizing that data and all system data collected to date will be submitted to you before April 30, 2008. If you would like to visit the site to see the system or if you have any questions or comments, please give me a call at (631) 924−3001

3/12/08: Reviewed Fourth Quarterly 2007 update report dated November 27,2007. Wells sampled on 10/16/07. Max BTEX 16,839 ppb (MW15), max MTBE 727 ppb (MW12). System startup data will be submitted in next report.

4/15/08: Reviewed update report dated April 8th, 2008. SVE and well strippers (WS) in operation, and short term remediation events and WS being conducted in MW−15 and MW−16. Maximum BTEX concentration 3,779 ppb (MW16), maximum MTBE concentration 325 ppb (MW12). General downward trend in contamination.

8/7/08 − Carlson: Reviewed July 2008 Hydrogeologic Status Report. Wells sampled on 6/30/08. Maximum BTEX concentration 54,315 ppb (MW15). SVE/WS system in operation. Fluctuating concentrations.

10/22/08 − Carlson: Meeting with Hess, Envirotrac, and NYSDEC.

11/17/08 − Carlson: Reviewed October 2008 Update Report. Wells sampled on 8/26/08. Fluctuating concentrations in some wells. Maximum BTEC concentration 1,068 ppb (MW12). System in operation.

2/20/09 − Carlson: Reviewed January 2009 Update Report. SVE and WS in operation. High effluent concentrations in MW15. Effluent concentraions were not measured from MW12,13. Wells sampled on 11/24/08. Hot well MW12 was not sampled (why?).

3/18/09 − Carlson: Meeting with Hess and Envirotrac. Not enough water to sample WS effluent in some cases.

5/7/09 − Carlson: Reviewed April 2009 Update Report. SVE/WS in operation, and monthly STRE from MW15. Wells sampled on 2/27/09. Maximum BTEX concentration 390 ppb (MW15). Strong decreasing trends.

5/28/09 − Carlson: Received email from Ed Russo: while out at the site this week conducting routine GW sampling, our technician noted product (0.18') in MW−15. This well, and the entire site, has cleaned up dramatically since the system was activated and short term remediation events commenced a couple of years ago. As you can see from the attached photo, the product appears to be fresh gasoline. Our technician has taken a sample of the product and the GW within the well. We will analyze the GW for BTEX/MTBE as well as ethanol and conduct a fingerprint analysis on the product to try to confirm that it is a new release since this site is an active BP station. The technician did not note any indication of a surface spill and the well seal and manhole have been reported to be in good condition. Once we get results of the ethanol analysis and fingerprint analysis, we will let you know. If it appears that this may be a new release, we would need to notify BP.

8/7/09 − Carlson: Reviewed July 2009 update report. SVE/WS in operation. STRE on MW15 but high concentrations − effluent should be monitored. MW15 fingerprinting results not included.

8/17/09 − Carlson: Reviewed fingerprinting results of product identified in MW15. Product was found to be weathered gasoline from the old release.

8/19/09 − Carlson: Meeting with Hess. System in operation.

11/17/09 − Carlson: Reviewed October 2009 Update Report. Large decrease in concentration in MW15. System in operation.

1/27/2010 − Carlson: Meeting with Hess. Well stripper wells are often dry.

2/5/2010 − Carlson: Reviewed update report. Low dissolved concentrations.

5/20/2010 − Carlson: Meeting with Hess.

5/27/2010 − Carlson: Reviewed update report. SVE to be shut down due to low recovery.

8/13/2010 − Carlson: Reviewed July 2010 Update Report. Spike in concentration in MW15. SVE shut down due to low recovery. STRE/well stripper on MW15 monthly.

8/30/2011 − Obligado − Hess is still duing well stripper STRE on wells MW−12 and MW−15 monthly.

10/21/11 − Obligado − This spill is reassigned to Carlson as directed by Brevdo.

11/14/11 − Carlson: Reviewed October 2011 update report. STRE/well stripper on MW15 and MW12 in June and July. Monthly EFR planned instead of well stripper events from now on.

8/24/2012 − 1Q2012, 4/30/2012, by EnviroTrac. The groundwater was sampled on 2/24/2012. DTW 15.95 to 22.32'. Flows to southeast. EFR on MW−12 and MW−15 on 12/14/2011, 1/5/2012 and 2/6/2012. MW−13, 1.5 BTEX, 13 MTBE. MW−9, BTEX ND, 26.2 MTBE. MW−10, 5.5J BTEX, 2.1 MTBE. MW−15, 2,885.8 BTEX, 2.8J MTBE. MW−16, 42.84J BTEX, 7.3 MTBE.

10/12/2012 − 2Q2012, 7/31/2012, by EnviroTrac. The groundwater was sampled on May 16, 2012. DTW 15.00 to 21.62'. Flows to southeast. SVE/well stripper system was shutdown due to lack of hydrocarbon recovery. EFR conducted on selected wells. MW−12, 1,136J BTEX, 164 MTBE. MW−13, 13.6J BTEX, 41.9 MTBE. MW−15, 15,713 BTEX, 9.1J MTBE. MW−16, 42.49J BTEX, 7.1 MTBE. EFR on MW−12 and MW−15.

1/18/2013 − 3Q2012, 10/31/2012, by EnviroTrac. EFR on wells MW−12 and MW−15 on 6/13/2012. The groundwater sampled on 8/24/2012. DTW 15.41 to 20.42 bg. Flows to southeast. MW−15, 5,307.6 BTEX, MTBE ND. MW−16, 27.48J BTEX, 4.2 MTBE.

9/25/2013 − 4Q2012, 1/31/2013, by EnviroTrac. Groundwater was sampled on 11/27/2013. DTW 15.41 to 20.42 feet. Flows to southeast. Soil vapor extraction/well stripper system shutdown due to lack of hydrocarbon recovery. MW−15, 30,531.3 BTEX.

1Q2013, 4/30/2013, by EnviroTrac. Groundwater was sampled on 2/6/2013. NO LNAPL. DTW 15.87 to 22.75 feet. Flows to southeast. MW−15, 19,340.4 BTEX. MW−16, 37.72J BTEX, 3.5 MTBE. MW−9, BTEX ND, 29.6 MTBE. MW−12, 43.43J BTEX, 109 MTBE. MW−13, 10.8 BTEX, 63.4 MTBE.

11/14/2014 − 2Q2014, 7/31/2014. SVE/well stripper system shutdown due to lack of recovery. 5/16/2014, sampled groundwater. DTW 14.51 to 22.48 feet. Flows to southeast. MW−16, 40.06J BTEX. MW−15, 0.21' LNAPL.

11/17/2014 − 3Q2014, 11/7/2014. 8/19/2014, sampled groundwater. DTW 15.37 to 22.04 feet. Flows to southeast. MW−16, 21.37 BTEX. MW−15, 0.09' LNAPL.

1/26/2015 − 4Q2014, 1/26/2015. 11/24/2014, gauged 6 monitoring wells and sampled 5 monitoring wells. DTW 15.36 to 22.17 feet. Flows to southeast. MW−15, 102,391.2 J BTEX. MW−16, 26.3 J BTEX.

10/20/2015 − 1Q2015, 4/13/2015. 1/8, 2/5/2015, EFR on MW−15. 2/5/2015, EFR on MW−16. 2/10/2015, gauged 6 monitoring wells and sampled 5 monitoring wells. DTW 15.82 to 21.87 feet. Flows to southeast. MW−15, 3,023 BTEX. MW−16, 160 BTEX.

2Q2015, 7/15/2015. 3/3, 4/1, 5/5/2015, EFR on MW−15. 5/13/2015, gauged 7 monitoring wells and sampled 7 monitoring wells. NO LNAPL. DTW 15.71 to 22.17 feet. Flows to southeast. MW−15, 3,615.6 BTEX. MW−16, 93.4 BTEX.

3Q2015, 10/20/2015. 6/10, 7/8, 8/6/2015, EFR on MW−15. 8/26/2015, gauged and sampled 5 monitoring wells. NO LNAPL. DTW 15.85 to 23.03 feet. Flows to southeast. MW−15, 4,065.7 BTEX. MW−16, 46.4 BTEX.

1/28/2016 − 4Q2015, 1/27/2016. 9/22, 10/8, 11/10/2015, EFR on MW−15. 11/10/2015, gauged 6 and sampled 3 monitoring wells. NO

LNAPL. DTW 16.09 to 22.05 feet. Flows to southeast. MW−15, 639.9 BTEX.

3/30/2016 ˇ Feng ˇ This spill is transferred from J. Feng to V. Brevdo as per J. Vought.

3/30/16 − Raphael Ketani. This spill case has been assigned to me effective today.

According to ACRIS, the block and lot are 2341 and 42. The latest deed is dated 12/21/79. The property owner is 350 Concourse Realty Corp.

The PBS record is #2−297437. The owner is MERIT Oil of New York, Inc., 551 West Lancaster Avenue, Haverford, PA, 19041. The operator is MERIT Grand Concourse. All six USTs were closed and removed on 11/1/98.

The contacts are as follows:

Speedway/Hess contact: Matthew Butler, (732) 738−2924, MButler1@Speedway.com Consultants: Edward Russo (EnviroTrac), (631) 924−3001, EDR@EnviroTrac.com

Joseph Rennie (EnviroTrac), (631) 924−3001, JoeR@EnviroTrac.com

4/26/16 − Raphael Ketani. Yesterday I received the EnviroTrac 4/25/16 Quarterly Update Report. On 12/10/15, 1/20/16 and 2/3/16 VEFRed MW−15. On 2/9/16 MW−9 to 11 and 14 to 16 were gauged. MW− 9 to 11, 15 and 16 were sampled on 2/9/16. Product was not measured in any of the wells. Groundwater was measured at 15.54’ and 22.47’ below grade and was determined to be flowing southeast. Total BTEX was non−detect at MW−9 to 11, 703.5 ppb at MW−15 and 14.5 ppb at MW−16.

7/26/16 − Raphael Ketani. Yesterday I received the EnviroTrac 7/25/16 Quarterly Update Report for the period March to May 2016. On 3/7/16, 4/5/16 and 5/5/16 VEFRed MW−15. On 5/13/16 MW−9 to 11 and 14 to 16 were gauged. MW− 9 to 11, 15 and 16 were sampled on 5/13/16. Product was not measured in any of the wells. Groundwater was measured at 14.90’ and 21.59’ below grade and was determined to be flowing southeast. Total BTEX was 11.3 ppb at MW−9 and non−detect at MW−10 to 11, 3785 ppb (64 ppb benzene) at MW−15 and 20 ppb at MW−16.

10/24/16 − Raphael Ketani. Today I received the EnviroTrac 10/24/16 Quarterly Update Report for the period June to August 2016. On 6/7/16, 7/12/16 and 8/8/16 MW−15 was VEFRed. On 8/22/16 MW−9 to 11 and 14 to 16 were gauged. MW− 9 to 11, 15 and 16 were sampled on 8/22/16. Product was not measured in any of the wells. Groundwater was measured at 14.94’ and 21.90’ below grade and was determined to be flowing southeast. Total BTEX was non−detect at MW−9 to 11. MW−15 had 11,964.7 ppb BTEX (74.7 ppb benzene). MW−16 had 9.6 ppb BTEX.

While I approved the report, I sent an email to Mr. Russo (631) 924−3001, EDR@EnviroTrac.com asking for an explanation as to why the BTEX concentrations should increase so much and so quickly at MW−15. I also asked him to have EnviroTrac come up with a means of reducing the contaminant concentrations at this location.

Mr. Russo responded today to my above email with the following statement:

ˇ in response to your email, please note that the increase in BTEX in MW−15 appears to be related to water table fluctuation. When the water table was lower (in November 2015 and February 2016) BTEX concentrations decreased. The water table has been

higher in May 2016 and August 2016 and the BTEX concentrations have increased.

Please note factors that indicate that our current course of action is the best to continue to address this impact:

1) The overall trend in remediation of this well, despite the past 2 sampling events, has been good. In 2014 product was present in the well and as a result EFR was initiated. Since 2014, product has no longer been detected within the well. Dissolved concentrations of BTEX were as high as 102,391 ug/l in 2014 prior to initiation of EFR. 2) A majority of the BTEX consists of degraded gasoline (xylenes) and through continuing groundwater monitoring of the site this impact has not shown up in downgradient monitoring wells, indicating that it is an isolated area of impact. 3) A remediation system operated to remediate the eastern portion of the site (area of MWs−9 through 14). As depicted on the attached figure, this remediation system could not be connected to the area of MW−15 due to site constraints/underground utilities.

Please also note that we are scheduled to continue to sample the site quarterly and will continue to evaluate our plan moving forward based on quarterly sampling results.

EFR events will continue on a monthly basis.

10/25/16 − Raphael Ketani. I sent a response email to Mr. Russo's 10/24/16 response email. I stated that while EnviroTrac has interpreted the data to indicate a decreasing trend for the BTEX concentrations in the groundwater at MW−15, staff at the Department have noted that the BTEX concentration in the 8/22/16 groundwater sample is at least 3 times greater than that of the past six samples. Also, despite the drop in the water table and the associated release of some product from the micro channels and pores in the soil, we are still concerned that this location will remain a source of groundwater contamination. We will monitor the quarterly analytical results with the expectation that EnviroTrac will take the necessary action to lessen the contamination in the event that it is consistently very high.

2/1/17 − Raphael Ketani. Today I received the EnviroTrac January 2017 Quarterly Update Report dated 1/31/17 for the period September to November 2016. On 9/6/16, 10/26/16 and 11/9/16 MW−15 was VEFRed. On 11/3/16 MW−10, 11 and 14 to 16 were gauged and MW−10, 11, 15 and 16 were sampled. Product was not measured in any of the wells. Groundwater was measured at 15.23' and 18.96' below grade and was determined to be flowing southeast. Total BTEX was non−detect at MW−10 and 11. MW−16 had 3 very low hits and 2 non−detects. MW−15 had 4889.3 ppb BTEX (70.3 ppb benzene).

5/2/17 − Raphael Ketani. I reviewed the EnviroTrac January 2017 Quarterly Update Report dated 4/28/17 for the period December to February 2017. On 12/8/16, 1/18/17 and 2/15/17 MW−15 was VEFRed. On 2/27/16, MW−9 to 11 and 14 to 16 were gauged and MW−9 to 11, 15 and 16 were sampled. Product was not measured in any of the wells. Groundwater was measured at 15.63' and 22.37' below grade and was determined to be flowing southeast. BTEX was non−detect at MW−9 to 11. MW−15 had 879.4 ppb. MW−16 had 9.3 ppb.

I approved the report without comment.

Next, I reviewed the EnviroTrac 4/20/17 Request for Well Abandonments letter. EnviroTrac requests permission to abandon wells MW−12 to 14. The reason for requesting the abandonments is that EnviroTrac claims the groundwater data has shown very significant decreases in the concentrations for BTEX (98.9%) and for MTBE (99.9%).

I looked at the historical data for wells MW−12 to MW−14. I found that MW−12 hadn't been sampled from 11/21/13 to 8/19/14 because it was not accessible. After this, the well was not sampled up to the 2/27/17 round. Very high to extremely high BTEX results

were indicated in Table 1 for the past results. MW−13 was sampled sporadically from 2/24/12 to 5/16/14. It was not sampled from 8/19/14 to 2/27/17, except for the 5/13/15 round when the results were non−detect. Past BTEX results for this well as far back as 11/24/08 were generally low. MW−14 had consistently low BTEX results since shortly after it was installed. Also, with the exception of some rounds when it was not sampled, the results were non−detect from 2/28/08 to 8/24/12. After this, the results have D designations for dry, though there are the letters NS for Not Sampled for the rounds from 5/13/15 to 2/27/17.

From reviewing the data in Table 1 for MW−12 to MW−14, I determined that wells MW−13 and MW−14 could be abandoned without compromising the monitoring. However, there was insufficient data for making a determination as to whether MW−12 could be abandoned. In light of this, I stated that MW−12 will need to be sampled for at least 3 more rounds before the Department can make a decision regarding abandonment. I sent an official letter today to Mr. Russo, with a C−C to John Engdahl of Speedway, stating the above.

8/1/17 − Raphael Ketani. I reviewed the EnviroTrac July 2017 Quarterly Update Report dated 7/28/17 for the period March to May 2017. On 6/8/17, 7/19/17 and 8/8/17 MW−15 was VEFRed. On 5/18/17, MW−9 to 11, 15 and 16 were gauged and sampled. Product was not measured in any of the wells. Groundwater was measured at 14.66’ and 21.13’ below grade and was determined to be flowing southeast. BTEX was non−detect at MW−9 to 11. MW−15 had 5154.5 ppb. MW−16 had 8.7 ppb BTEX.

10/31/17 − Raphael Ketani. I reviewed the EnviroTrac October 2017 Quarterly Update Report dated 10/30/17 for the period June to August 2017. On 6/8/17, 7/19/17 and 8/8/17 MW−15 was VEFRed and the sock was replaced. On 8/24/17, MW−9 to 11, 15 and 16 were gauged and sampled. Product was not measured in any of the wells. Groundwater was measured at 15.23’ and 22.45’ below grade and was determined to be flowing southeast. BTEX was non−detect at MW−9 to 11. MW−15 had 8541.3 ppb. MW−16 had 3.2 ppb BTEX.

1/24/18 − Raphael Ketani. Today I received the EnviroTrac Remedial Work Plan dated 1/24/18. The objective of the proposed plan was to collect the product in the vicinity of MW−15. The well was installed in the weathered schist bedrock. Multi−family residences with basements are located to the north. A subway tunnel is located adjacent to the site beneath the Grand Concourse. Utilities are below the Grand Concourse. Product was detected in the well on 6/8/17, 7/19/17, 9/6/17, 10/18/17 and on 11/3/17. The thickness varied from 0.01 feet to 0.04 feet.

Due to the proximity of the subway and utilities, EnviroTrac proposes to treat the product by injecting surfactant and recovering surfactant and product as a combined liquid using the EFR method. BioSolve Pinkwater will be the surfactant of choice. One hundred gallons of Pinkwater as a 5% solution will be injected. The inside of the well will be scrubbed with a brush and surge blocking will take place. The EFR event will take place the day after the injection and will last 8 hours. Three additional injection and extraction events will take place after this initial event.

On site parameters consisting of depth to product, depth to water and product thickess will be monitored. Wells MW−15 and MW−16 will be utilized for the monitoring.

Groundwater sampling will continue to take place quarterly. Each sample will be analyzed for BTEX and MTBE.

A work schedule was included in the work plan. I reviewed the schedule and did not have any comments. I approved the work plan.

1/25/18 − Raphael Ketani. I reviewed the EnviroTrac January 2018 Quarterly Update Report dated 1/25/18 for the period September to November 2017. On 9/6/17, 10/18/17 and 11/3/17 MW−15 was VEFRed and the sock was replaced. On 11/17/17, MW−9 to 11, 15 and 16 were gauged and sampled. Product was not measured in any of the wells. Groundwater was measured at 15.31’ and 22.59’ below grade

and was determined to be flowing southeast. BTEX was non−detect at MW−9 to 11. MW−15 had 7012.9 ppb. MW−16 had 11.6 ppb BTEX.

Later, Mr. Rennie and Mr. Russo called to discuss the site and the proposed usage of Pinkwater. They said that they had good results with the treatment solution as it loosens up the product being held by the soil. I stated that, from my experience, I had mixed feelings about Pinkwater because the results had been mixed. Mr. Russo stated that they'd like to try the treatment solution and that they will send me the results. Mr. Russo added that the reason they want to use the Pinkwater is because the BTEX concentrations are very high in the samples from MW−15. I stated that the groundwater sample results for MW−15 had remained high mostly because xylenes are resistant to breakdown. Mr. Rennie and Mr. Russo agreed. I responded that I had wanted to close the spill case and send a Spill Closure Letter because the product thickness had remained very low. Mr. Russo said that the oil wasn't the issue, just the BTEX concentrations. I finished the conversation by telling them to try the Pinkwater and to send me the results as soon as possible so that I can evaluate whether closure is appropriate. They said they will. With that, the conversation ended.

=case manager's note= Speedway leases the property. The owner is 350 Concourse Realty, LLC at 11 Park Place, Ste. 615, NY, NY, 10007. Mr. Russo said that letters can be sent to both the property owner and Speedway or just to Speedway, who will forward the letters to 350 Concourse Realty.

05/01/2018: This spill case was transferred to A. Doronova − AD. AD Received the following e−mail from Mr. Rennie:

Dear Ms. Doronova,

Please find attached the most recent Update Report for the above referenced location.

Sincerely,

Joseph Rennie − Project Manager − EnviroTrac Ltd. − 5 Old Dock Road, Yaphank NY 11980 631.924.3001 (Office) − 631.924.5001 (Fax) − joer@envirotrac.com

Will review. AD

05/23/2018: Reviewed the report. Site history: Petroleum impacted soils encountered during an underground storage tank (UST) upgrade project in February 1999. Removed five (5) 4,000−gallon single wall (SW) steel gasoline underground storage tanks (USTs), one (1) 550−gallon SW steel waste water UST and all associated dispensers, piping and remote fills. During this project a total of 410.76 tons of soil were removed off site for disposal.

This report covers period from December 2017 ˘ February 2018. On December 13, 2017, January 18, and February 15, 2018 ˘ Enhanced Fluid Recovery (EFR) was performed on MW−15. February 13, 2018 ˘ Performed a surge blocking/well cleaning event on MW−15 while injecting approximately 100 gallons of a 5% solution of BioSolve® Pinkwater® (surfactant) and water as proposed within the Remedial Action Plan (RAP) submitted to and approved by the NYSDEC in January 2018. On February 21, 2018 ˘ the consultant did a post surge blocking/surfactant injection well gauging event. On March 23, 2018 ˘ six (6) monitoring wells were gauged and sampled. Wells Gauged: MW−9 through MW−12, MW−15, and MW−16. Wells Containing LPH: None Groundwater Depth: 14.98 feet to 21.74 feet Groundwater Flow: Southeasterly Wells Sampled: MW−9 through MW−12, MW−15, and MW−16 Maximum Benzene Concentration: 21.6 micrograms per liter (ug/L) in MW−15 BTEX: around 24,000ug/L in MW−15 Maximum MTBE Concentration: 99.4 ug/L in MW−12

The consultant will continue quarterly groundwater sampling, with the next sampling event scheduled for May 2018. An Update Report summarizing these activities will be submitted to NYSDEC in July 2018. Speedway will continue monthly EFR events.

According to the consultant, it appears that surge blocking/surfactant injection has liberated dissolved phase hydrocarbons in the area of MW−15. EnviroTrac will continue to perform surge blocking/surfactant injection events/EFR in MW−15. Results from these events will be used to determine if further action should be taken. AD

Map Identification Number 43 **BP AMOCO STATION #17782** **Spill Number: 0111974** **Close Date:**
350 GRAND CONCOURSE BRONX, NY TT−Id: 520A−0011−462

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1751 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION OR PBS FACILITY
Spiller: BRAD FISHER − AMOCO 17782
Spiller Phone: (914) 765−8198
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: BRAD FISHER
Caller Agency: DELTA ENVIRONMENTAL
Caller Phone: (914) 765−8198
DEC Investigator: RJFENG
Contact for more spill info: BRAD FISHER
Contact Person Phone: (914) 765−8198

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
02/20/2002		UNKNOWN	2−600110	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL
MTBE (METHYL−TERT−BUTYL ETHER)	HAZARDOUS MATERIAL	0	UNKNOWN	0	UNKNOWN	
BTEX	OXYGENATES	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

impacted soil discovered tank removal − will be excvated during rebuild

DEC Investigator Remarks:

11/28/03 Reassigned from DeMeo to Foley. See spill #9814075 for info on former Merit station on nothern half of property.

File review: Underground Storage Tank Excavation Assessment Report (Delta, 11/4/02)

Five 4000gal(double−walled steel) gas USTs and an abandoned 550−gal(single−walled steel) UST excavated during raze and rebuild activities. Replaced with three 12000gal gas USTs in a separate tank cavity.

Lab analysis of the gasoline tank field post−ex soil samples identified MTBE in excess of TAGM in the four bottom samples (tank−2, tank−3, tank−4 and tank−5). MTBE concentrations ranged from 1500ppb(tank−5) to 7740ppb(tank−3). Total BTEX was non−detect in all soil samples.

No soil was excavated during tank pulls.

Delta proposes conducting a Geoprobe assessment in the vicinity of the former tank field to delineate soil concentrations.

12/31/03 Received SHAR (Delta, 12/22/03)

Report only covers the southern half of the existing BP service station. The nothern half is managed by Amerada Hess, formerly occupied by a Merit station. Site plan shows 6 monitoring wells on the northern portion of the property.(see spill #9814075) 1360 tons of petroleum−impacted soils were removed during raze and rebuild. Six soil borings were advanced around the former tank field and pump islands to depths between 11.5 and 20ft bgs. Lab analysis of soil samples did not identify VOCs in excess of TAGM. Three soil borings were converted to temporary 1 wells. Groundwater samples collected identified between nine and fourteen VOCs in excess of GWQS in all three samples. MTBE concentrations ranged from 2820ppb(SB−1/water) to 11500ppb(SB−2/water).

Delta installed three 2 permanent monitoring wells in June/July 2003 to depths between 19.9 and 21.4’bgs. Underlying bedrock was encountered in one of the three borings at 21.5’. Additional groundwater samples were collected. Lab analysis identified VOCs in excess of GWQS in all three samples.

1/5/04 Discussed site with J. Sun, PM for Hess(#9814075). He will look for signed STIP from Hess for northern section of property. May have existing remediation system on property.

1/29/04 Received 4Q2003 monitoring report(Delta, 1/21/04). Max BTEX 29936ppb(MW−5) and max MTBE 2860ppb(MW−4). MW−2 is clean.

1/29/04 Joe Sun sent out stip to Hess. 3/24/04 Hess stip executed.

4/22/04 Received 1Q2004 monitoring report. DTW 12.5−19’bgs. Total BTEX from 10ppb(MW−2) to 15962ppb(MW−1). MTBE from 6.9ppb(MW−2) to 1720ppb(MW−3).

10/14/04 2Q04 monitoring report received. DTW 13−18’bgs. BTEX from 12ppb(MW−2) to 16174ppb(MW−1). MTBE from 3ppb(MW−2) to 1160ppb(MW−1).

4/7/05 Received 3Q04 and 4Q04 monitoring reports. 3Q04− BTEX ranged from ND(MW−2) to 18124ppb(MW−1). MTBE ranged from ND(MW−2) to 424ppb(MW−3). 4Q04− BTEX ranged from 1ppb(MW−2) to 16084ppb(MW−1). MTBE ranged from 9ppb(MW−2) to 507ppb(MW−3).

11/9/05: Reviewed quarterly report dated 9/29/05. Three wells sampled on 6/10/05. No LNAPL present. Max BTEX is 22437ppb (MW1)

and max MTBE is 328ppb(MW3).

11/25/05 3Q05 − DTW 11.82−19.30'bgs. No LNAPL present. BTEX from 0.5ppb(MW−2) to 9858ppb(MW−1). MTBE from 2ppb(MW−2) to 559ppb(MW−3).

3/28/06 4Q05 sampling conducted 12/28/05 on three MWs. DTW 11.74−17.91'bgs. BTEX from 34ppb(MW−2) to 31268ppb(MW−1). MTBE from ND(MW−1) to 131ppb(MW−3). MW−1 is problem well. Concentrations in downgradient well(MW−3) are fluctuating. Hess has system operating on northside of property.

6/8/2006 − Feng − project reassigned to RJFeng. (RJF)

9/29/2006 − Feng − Portfolio meeting with BP and Delta. The site has limited access to trucks due to the canopy. Delta will keep quarterly monitoring. (RJF)

1/4/2007 − Feng − 1Q2006, 10/18/2006, by Delta. Groundwater sampled and gauged 3/3/2006. 3 monitoring wells. DTW 12.23' to 18.31' bg. Flows southeast. No LNAPL. MW−1, 13,489 ppb BTEX, 23.8 ppb MTBE. MW−2, 1.4 ppb BTEX, 2.1 ppb MTBE. MW−3, 60.4 ppb BTEX, 81.4 ppb MTBE. (RJF)

2/6/2007 − Feng − 2Q2006, 12/11/2006, by Delta. Groundwater sampled and gauged 6/30/2006. 3 monitoring wells. DTW 10.82' to 17.93' bg. Flows east−southeast. No LNAPL. MW−1, 14,887 ppb BTEX, 8.6 ppb MTBE. MW−2, 133.62 ppb BTEX, 0.4 ppb MTBE. 16.69 ppb BTEX, 30.4 ppb MTBE.

Checked with Hess PM, RAP for SVE and ORC socks approved, but not implemented yet. (RJF)

5/29/2007 − Feng − 3Q2006, 1/22/2007, by Delta. Groundwater sampled and gauged 9/26/2006. 3 monitoring wells. DTW 11.98' to 18.02' bg. Flows to southeast. LNAPL in MW−1 (0.02'). MW−1, 9,882 ppb BTEX, 7.7 ppb MTBE. MW−2, 0.45 ppb BTEX, 2 ppb MTBE. MW−3, 9.8 ppb BTEX, 20.6 ppb MTBE. (RJF)

8/15/2007 − Feng − 4Q2006, 7/2/2007. Groundwater sampled 12/13/2006. All 3 monitoring wells were sampled. DTW 12.09' to 18.14' bg. Flows to southeast. No LNAPL. MW−1, 17,027 ppb BTEX, less than 50 ppb MTBE. MW−2, BTEX ND, 1.7 ppb MTBE. MW−3, 21.7 ppb BTEX, 31.5 ppb MTBE. (RJF)

11/21/2007 − Feng − 1Q2007, 8/30/2007. Groundwater sampled 3/28/2007. All 3 monitoring wells were sampled. DTW 11.76' to 17.77' bg. Flows to southeast. No LNAPL. BTEX range ND to 10,616 ppb (MW−1). MTBE range 1.1 ppb to 13.6 ppb (MW−3). (RJF)

3/20/2008 − Feng − eDoc Quarterly Monitoring Report 3Q2007, 4Q2007 and 1Q2008. (RJF)

6/26/2008 − 3Q2007, 2/25/2008. Active service station. The monitoring well network was gauged and sampled on 8/22/007. The site was not sampled in 2Q2007. 3 monitoring wells were gauged and sampled. DTW 11.30' to 17.66' bg. Flows to southeast. No LNAPL. BTEX range ND to 9,528 ppb (MW−1). MTBE range ND to 14.2 ppb (MW−3).

4Q2007, 2/25/2008. Active service station. The monitoring well network was gauged and sampled 11/14/2007. 3 monitoring wells. DTW 12.27' to 18.54' bg. Flows to southeast. NO LNAPL. BTEX range ND to 10,323 ppb (MW−1). MTBE range N Dto 26.2 ppb (MW−3).

1Q2008, 3/10/2008. Active service station. The monitoring well network was gauged and sampled 2/7/2008. 3 monitoring wells. DTW 12.45' to 18.49' bg. Flows to southeast. NO LNAPL. BTEX range 1 ppb to 10,600 ppb (MW−1). MTBE range 1 ppb to 25 ppb (MW−3). (RJF)

10/29/2008 − 2Q2008, 9/20/2008, by Delta. Active station. The monitoring well network was gauged and sampled 6/27/2008. 3 wells were gauged. NO LNAPL. DTW 11.66' to 18.62' bg. Flows to southeast. 3 wells were sampled. BTEX range 0.67 ug/L to 9,770 ug/L (MW−1). MTBE range ND to 14.0 ug/L (MW−3). (RJF)

3/4/2009 − 3Q2008, 12/11/2008, by Delta. Active station. The monitoring well nework was gauged and sampled 9/4/2008. 3 wells were gauged. LNAPL in MW−1 (0.02'). DTW 11.95' to 18.09' bg. Flows to southeast. 3 wells were sampled. BTEX range ND to 10,540 ug/L (MW−1). MTBE range 1.1 ug/L to 7.2 ug/L (MW−3).

4Q2008, 1/30/2009, by Delta. Active station. The monitoring well network was gauged and sampled on 12/17/2008. 3 wells were gauged. LNAPL in MW−1 (0.03'). DTW 11.57' to 17.57' bg. Flows to southeast. 3 wells were sampled. BTEX range ND to 9,980 ug/L (MW−1). MTBE range ND to 8.3 ug/L (MW−3). (RJF)

8/14/2009 − Reviewed Drilling Work Plan, dated 6/29/2009, by Delta, pdf copy via email. Delta proposes to install 2 monitoring wells northwest and southwest of MW−1. Email comments to Delta requiring one more downgradient well at the east side of the canopy. Revision due 9/2009. (RJF)

9/1/2009 − 2Q2009, 8/5/2009, by Delta. Active station. The monitoring well network was gauged and sampled on 6/29/2009. 3 wells were gauged. NO LNAPL. DTW 10.87' to 17.20' bg. Flows to southeast. 3 wells were sampled. BTEX range ND to 10,407 ug/L (MW−1). MTBE range ND to 7.1 ug/L (MW−3). (RJF)

9/11/2009 − email from Delta. attached with the SHAR of 12/29/2003. Delta installed SB−6 at the east side of the canopy/tanks. The boring was advanced to 11.5 feet bgs. Weathered bedrock was encountered at approximately 8 feet bgs and there was no overburden saturation. soil sample taken from 9−11.5 feet, no VOCs/SVOCs detected. Delta requested not to install the well over there as required by DEC 8/14/2009. (RJF)

3Q2009, 12/7/2009, by ARCADIS. 3 wells were gauged and sampled on 9/25/2009. LNAPL in MW−1 (0.01'). Max benzene 81 ug/L (MW−1). Max BTEX 6,200 ug/L (MW−1). Max MTBE 6.3 ug/L (MW−3). ARCADIS requests to reduce the monthly gauging to quarterly based on the intermittent nature of LNAPL occurrence in MW−1.

4Q2009, 2/5/2010, by ARCADIS. 3 wells were gauged and sampled on 12/30/2009. DTW 11.34−17.20' bg. Flows to east−southeast. NO LNAPL. max benzene 34 ug/L (MW−1). Max BTEX 7,900 ug/L (MW−1). Max MTBE 5.2 ug/L (MW−1). Due to project transition, the monthly guaging did not occur in October, November or January 2010, but has now resumed. Installation of 3 additional wells was proposed to DEC 12/2009 and will schedule field upon approval.

3/16/2010 − Reviewed Investigation Work Plan revision, dated 3/8/2010, by ARCADIS. ARCADIS proposes to install 3 monitoring wells, MW−4 west of the canopy, MW−5 south of the canopy in between MW−1 and MW−2, MW−6 east of the canopy. Work plan is approved. Report due 6/2010. (RJF)

5/21/2010 − 1Q2010, 4/28/2010, by ARCADIS. 3 wells were gauged and sampled on 3/12/2010. DTW 19.73−21.33' bg. Flows to east−southeast. NO LNAPL. Max benzene 52 ug/L (MW−1). Max BTEX 7,500J ug/L (MW−1). Max MTBE 4.5J (MW−1). The 3 new wells are

scheduled to be installed in 5/2010. ARCADIS requests reduce monthly gauging to quarterly.

08/26/10: This spill case is transferred from R. Feng to J. Kolleeny. Reviewed Results of 2nd Quarter 2010 GW Monitoring and Subsurface Hydrocarbon Assessment Rpt by ARCADIS, both dated 8/16/10 (in eDocs). 2nd Quarter 2010 sampling shows high dissolved contam in well MW−1. Subsurface Invest Rpt. summarizes install'n & sampling of 3 new soil borings, two of which were converted into mon wells (3rd boring hit refusal on presumed bedrock w/o hitting GW). Borings found saturated zone soil contam at MW−4, and significant GW impacts at MW−4 and MW−5. ARCADIS proposed adding new wells to mon program, continued quarterly mon, and evaluation of remedial technologies, feasibility study and remedial action plan. I sent letter (in eDocs) to Jon Armstrong of BP, cc's to Ray Wagner and Andrew Korik of ARCADIS, asking for addt'l delin wells to north & west of most contaminated wells (MW−1, MW−4 & MW−5), with work plan for wells due by 9/17/10 and RAP due by 12/3/10. − J. Kolleeny

08/30/10: Spill no. at adjacent former Merit Station to north of site (cleanup being managed by Hess) is 9814075; see rpts in eDocs for GW data. − J. Kolleeny

09/01/10: On 8/27/10 received email from Ray Wagner of ARCADIS: I believe we can accommodate you on request to add Former UST areas to site plans, where applicable, and we have this info. We will begin this process; please keep in mind there may be a little lag in updating some sites as we will be pulling figures from archive site files sent from Delta. I would like to have a call with you to discuss recently submitted investig rpt for BP station 17782 and your request for addt'l delin wells to west & north of MW−4. Merit site to north has wells just north of MW−4, and stepping out to west of MW−4 is limited due to subway and street. Please let me know if you would be available to discuss this later today or early next week. Spoke with Ray later that day, asked if he could send site plan showing northern half of site (former Merit Station), where cleanup is being managed by Hess. On 8/30/10, he sent figure and 2009 rpt by EnviroTrac showing wells on north portion of site and GW data. I sent email: Thanks for fig. and rpt. Have you been able to find out anything about location of former USTs at former Amoco station? He replied he would have that info by 9/1/10. On 9/1/10, received email from Andrew Korik of ARCADIS showing former UST locations on former Amoco & Merit portions of site (in eDocs). I sent email to Andrew & Ray of ARCADIS, cc to Jon Armstrong of BP: Thanks for sending site plans with former UST locations. I looked over fig. and 2009 EnviroTrac rpt sent few days ago by Ray, and I also looked at more recent EnviroTrac rpt (July 2010) for northern (former Merit sta.) portion of site, and I see that monitoring well MW−4 on southwestern part of that site has either been destroyed or is not being sampled. Therefore, I believe that an addt'l well to north of ARCADIS well MW−4 on former Amoco site, near former property line, is warranted. In light of constraints posed by nearby subway & Grand Concourse, I will not at this time ask for addt'l delin wells west of contam area represented by wells MW−1, MW−4 & MW−5. Please contact me if you have questions. − JK

09/07/10: On 9/2/10, received email from Andrew Korik of ARCADIS with attached site plan showing proposed addt'l well location as requested (in eDocs). Email stated: Per your rqst, see attached fig which shows location of one addt'l mon well proposed to be installed near former property boundary north of our existing MW−4. With your approval, we will schedule install'n & sampling of this well in accordance with procedures outlined in 3/8/10 Work Plan, approved by NYSDEC. Please contact me if you have any questions. Due to proximity of subway tunnel under street and portion of sidewalk, well may need to be moved 5 or 10 ft to east pending comments from NY MTA. Thank you. On 9/7/10, I sent email reply, with cc's to Ray Wagner of ARCADIS & Jon Armstrong of BP: I would prefer if you could install new well about 5 ft to south of proposed location shown on attached drawing. However, I understand that final location of well may be largely determined by presence of subsurface utilities. Please consider this email as authorization to proceed with install'n of addt'l mon well. Well should be installed in accordance with procedures outlined in 03/08/10 Work Plan approved by NYSDEC. Feel free to contact me if you have any questions. Andrew wrote back: Will try to install per your preference, assuming field conditions allow. − JK

11/22/10: Received email from Andrew Korik of ARCADIS: Just wanted to update you on work at BP site 17782 at 350 Grand Concourse. We installed and sampled addt'l well along sidewalk as requested. I am just wrapping up combined 3rd quarter rpt/well install'n rpt and expect to have something to you next week. We are also reviewing remedial alternatives and will be developing a RAP shortly. − J. Kolleeny

03/01/11: Reviewed Results of 3rd Quarter 2010 GW Monitoring and Intall'n of Addt'l GW Mon Well rpt by ARCADIS dated 12/3/10 (in eDocs). Results of Sept. 2010 GW sampling show MW−1 had 4,050 ug/L total BTEX (down from 7,890 ug/L in June 2010), MW−4 had 6,390 ug/L tBTEX (down from 13,600 ug/L in July 2010). New well MW−6A was intalled as requested by DEC; soil samples showed VOC detections but no TAGM 4046 exceedances in sample at GW interface (12.5−13 ft bgs), but significant exceedances in soil sample from below water table (18−18.5 ft bgs), including 15 mg/kg ethylbenzene, 73 mg/kg m,p−xylene, 19 ug/L o−xylene, 42 mg/kg 1,2,4−trimethylbenzene, and 14 mg/kg 1,3,5−trimethylbenzene. GW sample from new well MW−6A, taken in Oct. 2010, was very contaminated, with 12,500 ug/L tBTEX and over 15,000 ug/L total VOCs. Rpt recommendations state quarterly GW monitoring will continue, with MW−6A added to mon program, and that RAP will be prepared and submitted to DEC in Jan. 2011. − J. Kolleeny

04/08/11: Reviewed 4th Quarter 2010 GW Monitoring and Analysis Rpt by ARCADIS, dated 3/7/11 (in eDocs). Results of Nov. and Dec. 2010 GW sampling show MW−1 had 6,150 ug/L total BTEX in Nov. 2010 (up from 4,050 ug/L in Sept. 2010) and increased to 10,700 ug/L tBTEX in Dec. 2010; MW−4 had 9,520 ug/L tBTEX in Nov. 2010 (up from 6390 ug/L in Sept. 2010) and increased to 10,600 ug/L tBTEX in Dec. 2010; MW−6A, not sampled in Nov. 2010, had 12,800 ug/L tBTEX in Dec. 2010 (up a little from 12,500 ug/L in Oct. 2010). Rpt recommendations state quarterly sampling & monthly gauging will continue, and RAP will be submitted in March 2011. − JK

04/11/11: Reviewed Remedial Action Work Plan for Anaerobic Biological Oxidation by ARCADIS, dated 2/28/11 (in eDocs). RAWP proposes injection of sulfate via 5 new injection wells, to enhance bioremediation and address persistent GW contam along west side of site. After 1st injection, one or two rounds of performance monitoring will be performed to determine frequency of addt'l injections. I sent approval letter (in eDocs) to Jon Armstrong of BP, cc's to Andrew Korik & Gene Choquette of ARCADIS. − J. Kolleeny

4/11/2011 − Spill transferred back to JFeng.

5/4/2011 − email from Andy Korik June ˇ we are scheduled to install the injection wells per the approved RAWP starting Monday May 9 at the 350 Grand Concourse site. Please call me if you have any questions. Can we change the monthly gauging to quarterly at these sites where we have not seen product in over 1 year?

5/5/2011 − email to Andy Korik

Andy,

Yes, you can switch from monthly gauging to quarterly gauging for this site. In yesterday's email you said the field work will start on Monday 5/9/2011, how many days are you expected to be in the field?

June

email from Andy Korik The first day will be coring and hand clearing of the borings. I expect the well installations will start on Tuesday and be finished on Thursday ˇ so 4 days on site (3 if things go very quickly). JF

5/17/2011 − received email attached with 1Q2011 quarterly report. eDoc. JF

5/25/2011 − email from Andy Korik of ARCADIS June ˇ here is notification that the injection wells were installed at 350 Grand Concourse. Injection well IW−03 could not be installed due to shallow refusal with 4 attempts. We can compensate by increasing injection volumes at the other 4 wells. Still waiting for USEPA approval to inject.

Sulfate Injection Well Installation Notification was attached. eDoc. JF

7/11/2011 − 1Q2011, 5/17/2011, by ARCADIS. The groundwater samples were collected on 3/31/2011. 6 wells were sampled. MW−6A located in the north of MW−4 and west of the canopy was installed in 10/2010. NO LNAPL. The site is changed to quarterly gauging. Max BTEX 11,000 ug/L (MW−6A). Max MTBE 12 ug/L (MW−5).

Sulfate Injection Well Installation Notification, 5/25/211, by ARCADIS. The installation of four sulfate injection wells took place during the week of May 9 through May 13, 2011. The approved RAWP specified that 5 injection wells to be installed; however, due to refusal at 1.5 to 5 feet depth during 4 attempts to install well IW−03, an injection well was not installed at the proposed IW−03 location. Injection volumes at IW−2 and IW−04 can be adjusted to compensated for the absense of IW−03. They submitted an Inventory of Injection Wells package to USEPA on 5/5/2011. Will notify DEC one week prior to the injection. No soil and groudwater samples taken. JF

5/8/12 − Raphael Ketani. Mr. Korik submitted a proposal to the DEC on 5/1/12 requesting to use sodium nitrate in place of sodium persulfate for treating the groundwater contamination at the site. After review by our technical staff, a number of comments and requests were submitted to me for forwarding to Mr. Korik. I put the comments and requests in a draft letter for the review of Hassan Hussein, EE III at Region 2 DEC.

In brief, the letter approved the use of sodium nitrate and requested bacteria culture information, dosing information, nitrate enriched groundwater management information, that the groundwater must be kept anoxic and a warning regarding the regulated use of sodium nitrate.

Mr. Hussein approved the letter and it was sent out today.

5/24/12 − Raphael Ketani. Today I received the ARCADIS 5/24/12 First Quarter 2012 Groundwater Monitoring and Analysis Report. I reviewed the report. NAPL was not present in any of the wells during this quarter. Groundwater flow was to the east. MW−2 was not accessible in March 2012. MW−1 had 1900 ppb ethylbenzene and 3600 ppb total xylenes. MW−4 had 1700 ppb ethylbenzene and 4100 ppb total xylenes. MW−5 had 380 ppb total xylenes. MW−6A had 1100 ethylbenzene and 6600 total xylenes. The first round of sodium nitrate injections is scheduled to take place at the end of the third monitoring quarter, pending DEC approval.

5/30/12 − Raphael Ketani. Earlier, Mr. Korik had sent me an ARCADIS 5/23/12 response letter to the Department's 5/7/12 conditional approval letter regarding the use of sodium nitrate in place of sodium persulfate. I reviewed the response letter which addressed the 7 comments the Department had made. Their responses were as follows:

1) ARCADIS sent a letter daated 2/29/12 to the EPA indicating that they will use sodium nitrate in place of the sodium persulfate. However, they haven't had a response from the EPA.

2) The amounts of sodium nitrate that will be on site will be less than the 400 pound limit. For this site, 120 lbs. of the

material will be stored on site at any given time.

3) Dosing information was presented and was deemed appropriate.

4) Quantitative polymerase chain reaction was used to evaluate the presence of Dichloromonas species bacteria.

5) By using appropriate amounts of the sodium nitrate chemical, the nitrate concentrations will be maintained in order to keep the groundwater environment anoxic.

6) The push pull method will be used to extract any groundwater. This method doesn't cause the reorientation of the soil grains which would result in a loss of the efficiency of the injections. They state that there will be minimal groundwater displacement.

7) The nitrate concentrations will decrease in two ways: first, nitrate reducing bacteria and reduced minerals will change the nitrate to nitrite and eventually to nitrogen gas. Secondly, the nitrate will be diluted by the downgradient groundwater. Estimates of the distance traveled by 1000 ppm nitrate groundwater until it becomes 10 ppm nitrate groundwater were included in a table. The nitrate enriched groundwater under the site will have to travel 60 feet in order to reach CP−51 levels.

Later today, a conference call took place between Mr. Korik, other staff from ARCADIS, staff from BP and myself. The proposed use of sodium nitrate was discussed. Specifically, the ARCADIS 5/1/12 sodium nitrate proposal, the Department's comments in our 5/7/12 response letter and the information in the ARCADIS 5/23/12 response letter. I stated that the Department considered that ARCADIS, and thereby BP, had adequately responded to the Department's comments with the exception of item #7, monitoring nitrate concentrations in the groundwater. Mr. Korik explained that, for BP station #17782, there were on site monitoring wells 80 feet downgradient of the injection locations. I stated that this was sufficient for monitoring the groundwater.

The ARCADIS 5/23/12 response letter was found to be acceptable with the only comment being that they will have to frequently sample the groundwater in order to be sure that it does not exceed the CP−51 standards. If they find that the standards are exceeded, then they will have to propose a means for managing the excess nitrate. ARCADIS must submit a letter plan with a work schedule by June 29, 2012 for conducting the injections and submitting quarterly groundwater monitoring reports. I drafted a letter for the review of Hassan Hussein, EE III and head of the Hazardous Materials Unit.

5/31/12 − Raphael Ketani. Mr. Hussein approved the letter and it was sent out.

6/19/2012 − meeting with ARCADIS. Pilot in the IW−4, and monitor MW−1, MW−4 and MW−5. Pay attension to the benzene during the pilot. If not working, will plan for aerobic, i.e. oxygen release, which is fine with MTA.

6/26/2012 − Reviewed Supplemental Letter Work Plan for Nitrate Injections, dated 6/19/2012, by ARCADIS. The Work Plan is intended to fulfill the Department´s requirement of specific information (i.e. monitoring, reporting and injection details) regarding the injections as part of the Department´s approval of the proposal to use sodium nitrate to treat the contamination on May 30, 2012. ARCADIS proposes to inject 5,300 gallons, 8,000 gallons, and 5,300 gallons of sodium nitrate solution at a concentration of 0.3% by weight into the injection wells for Site 654, Site 5082, and Site 17782, respectively. A groundwater monitoring program will be implemented subsequent to the application. Approves the Work Plan after discussed with Raphael Ketani. Report by 12/2012.

8/28/2012 − 1Q2012, 5/24/2012, by ARCADIS. Groundwater was sampled on 3/6/2012. DTW 12.86 (MW−5) to 18.07' blow the top of

casing. NO LNAPL. On 10/27/2011, high vacuum extraction (HiVac) event on IW−1 was conducted for 6−hour duration due to the historical appearance of LNAPL. Next sampling will be in 6/2012. MW−6A, 7,700 BTEX. MW−4, 6,000 BTEX. MW−1, 5,600 BTEX. MW−5, 490 BTEX, 29 MTBE.

10/18/2012 − 2Q2012, 8/30/2012, by ARCADIS. Groundwater was samppled on 6/12/2012. DTW 12.23 (MW−5) to 17.96 (MW−3). Flows to east at a hydraulic gradient of 0.16 feet per foot. MW−6A, 7,100 BTEX. MW−4, 5,200 BTEX, 6 MTBE. MW−1, 5,500 BTEX, 3 MTBE. MW−5, 350 BTEX, 140 MTBE. The first round of calcium nitration injection was conducted in August 2012. Dose−response monitoring, analytical data and remedial efficacy will be evaluated and presented in the 3rd quarter monitoring report along with dosing recommendations for future injections.

12/20/2012 − 3Q2012, 11/12/2012, by ARCADIS. Groundwater was sampled on September 21, 2012. DTW 11.36 (MW−2) and 18.45 (MW−3). Flows to east at a hydraulic gradient of 0.18 feet per foot. Over the period of August 14 to August 24, 2012, approx 23,858 gallons of calcium nitrate solution were injected into IW−04. Post injection response monitoring is on−going and will continue through early November. MW−6A, 5,600 BTEX. MW−4, 5,400 BTEX. MW−1, 4,600 BTEX. MW−5, 380 BTEX.

8/21/2013 − met with ARCADIS. The calcium nitrate injection was done in 8/2012. 2,400 gallon has been injected. MW−1 got some LNAPL 0.02'. Need to monitor.

8/26/2014 − 2Q2014, 8/21/2014, by ARCADIS. Groundwater sampled on 6/24/2014. MW−6A, 2,300 BTEX. MW−4, 2,200 BTEX. MW−1, 5,400 BTEX. in DecDocs.

8/26/2014 − Reviewed letter dated 8/21/2014 from ARCADIS, Review of Metro−North Property East of. ARCADIS conducted a preliminary site reconnaissance to observe condition on Metro North property adjacent to the east side of the BP site. The picture shows that the area between the gas station and the Metro North track was heavily vegetated. The track do not appear to be more than 8−10 feet below the level of the gas station. Direct observation of the ground surface was not possible. ARCADIS proposed to return the site when the vegetation has died to ascertain the difference in grade. in DecDocs.

2/24/2015 − 3Q2014, 1/15/2015. Monitoring on 9/5/2014. DTW 12.13 (MW−2) to 15.10 (IW−1). MW−1, 6,800 BTEX. MW−4, 4,600 BTEX. MW−6A, 3,600J BTEX.

4Q2014, 2/24/2015. Monitoring on 12/1/2014. DTW 11.54 (MW−2) to 18.80 (MW−3). Flows to northwest. MW−1, 8,200 BTEX. MW−4, 3,200 BTEX. MW−6A, 2,800 BTEX.

10/6/2015 − 1Q2015, 6/11/2015. Groundwater was sampled 3/16/2015. DTW 7.02 (MW−4) to 12.33 (MW−6A) feet below TOC. MW−1, 6,300 BTEX. MW−4, 120 BTEX. MW−6A, 980 BTEX.

2Q2015, 8/10/2015. Groundwater monitoring on 6/22/2015. DTW 12.2 (MW−4) to 19.02 (MW−3). Flows to east. MW−1, 4,500 BTEX. MW−4, 1,100 BTEX. MW−6A, 1,100J BTEX.

3/30/2016 ˇ Feng − This spill is transferred from J. Feng to J. Vought as per J. Vought.

9/15/16−Vought−File review to date:

Email from Arcadis (Buchanan)−5/26/16. Email that Good afternoon Jeff, Please let me know if you any availability to discuss a

few BP sites. I have two sites (00147 and 10466) at a critical cross roads that I would like to discuss, also the two pending NFA requests. I am attaching some supporting documentation and listing my thoughts below: Request for no further action submitted October 2015. We have insurance premium due with MTA to maintain our monitoring wells, I would like to get your feeling on this request so we can decide whether to renew the insurance or not.

Email from Arcadis (Buchanan)−6/17/16. Email that Good afternoon Jeff, I know you are extremely busy, but have you had a chance to review any of these items? I am pressured weekly by BP, especially regarding 07−01266. Please let me know when you have a few minutes to talk. Thanks

Email from Vought to Buchanan−6/20/16. Email that Ira, Apologies for my delay in response. I reviewed your below email and attachments and thought I would respond on each site, in lieu of scheduling a call. With regards to 350 Grand Concourse, I will put this review in my recent queue to hopefully review before I leave for vacation next week. To make things a bit more expedient, I would be much obliged if you could resent the closure request. Attached was Site Closure Summary Package. Vought added Site Closure Summary Package to D2 and reviewed:

Site Closure Summary Package (Arcadis)−10/9/15. Contains Spill Closure Presentation that notes Was originally 2 adjoining gas stations: Merit to the north and Amoco to the south, Both stations and property redeveloped into a single BP station in 2002 , and Spill number 0111974 issued when impacts encountered during tank removal in 2002 . Five 4,000−gallon underground gasoline storage tanks and one 550− gallon waste oil tank (reportedly installed in 1977), and associated piping and pump islands were removed from the former Merit station. Five 4,000−gallon steel gasoline USTs and associated piping and pump islands were removed as part of closure of the Amoco station. MTBE detected above TAGM soil cleanup standards if four of ten post excavation samples. Remediation history includes 1999: 411 tons of soil excavated and removed from the former Merit station. 2002: Site is redeveloped into a single BP station. 1,360 tons of soil excavated and removed... Four injection wells installed. Hi−vacuum extraction event at IW−04. Presentation concludes that: Mann−Kendall analyses show decreasing VOC concentration trends in all monitoring wells (Attachment 5). ; LNAPL last detected in December 2013 (0.01−feet thickness) at IW−01. ; Dissolved VOC concentrations have fallen by an order of magnitude(13−14 ppm to 1 ppm) at the two most impacted wells (MW−4 and MW−6A) since 2010 (Attachment 6). ; Available soil data shows limited exceedances of soil cleanup criteria. ; Most recent groundwater data shows benzene exceeding groundwater standards at only one well (MW−1 at 10 ug/L).

9/16/16−Vought−Examined other files in D2 for same site and one monitoring report shows groundwater flow to the east and also shows U−Haul facility across Grand Concourse from site. Other document from Arcadis in 2014 shows no observed impact to MTA tracks downgradient from site which is also not a sensitive receptor. Spill closed due to: 1)reducing petroleum VOCs in groundwater due to attenuation 2)delineation of the residual groundwater contamination 3)no possible impact to receptors to the west due to depth of groundwater and likely depth of basements 4)no further feasibility (including cost effectiveness) to perform further remediation as per CP51 Commissioner's Policy 5)no threat to the wider community as per discussions with DEC Central Office 6)site use will not change and will remain a commercial gas station 7)inclusion of soil contamination clause in spill closure letter. Spill closure letter sent to Randy Coil with cc to Arcadis Buchanan via email and original sent to BP via US mail and added to D2.

11/30/2016 − email from Ira Buchanan to J. Vought Arcadis received spill closure (attached) on September 16th. We mobilized to the site on October 6, 2016 to decommission wells. Wells abandoned include MW−1, MW−3, MW−5, IW−4 and IW−5. When the field crew gauged IW−1, approximately 0.62 feet of LNAPL was encountered. The field crew stopped work at this time leaving IW−1, IW−2, MW−2, MW−4 and MW−6A intact. On November 16, Arcadis subcontractors mobilized to the site with a vacuum extraction truck and set up on IW−1. Prior to beginning the vac event, IW−1 was gauged and had 0.41 feet of LNAPL. IW−2, MW−4 and MW−6A were gauged and did not

have LNAPL. MW−2 was not gauged due to a large puddle over the well pad. MW−2 has been historically non−detect for VOCs or detections less than 10 ppb. The November 16 vac event lasted for 8 hours and recovered approximately 45 gallons of petroleum−impacted water from IW−1. The wells were gauged again on November 29, 2016 at which time no LNAPL was observed in IW−1 or the other wells. Based on the information and actions described above, we request permission to continue with abandonment of the remaining 5 wells.

email from J. Vought to Ira Buchanan Ira, Thanks for keeping me posted. Question for you: What is the site address for this site? When the Department closed the spill we attempted to ensure that there was a decreasing trend in the groundwater contamination in the remaining dissolved contaminants. With the appearance of free product we have to re−examine the trend to make sure that the remaining contamination is indeed attenuating. As such I am thinking that at least a few quarters of monitoring to re−establish that trend is warranted. However, I must admit I write the above with no site specific knowledge in hand (eg impending development). I will discuss the above with June and also we will consider reopening the spill if warranted. If this appears to be the best course of action we can have a teleconference to discuss further. We will keep you posted and feel free to forward this email onto the consultant as well, −Jeff

12/2/2016 − email from J. Feng to Ira Buchanan Ira, I agree with Jeff that at least a few more quarters of monitoring is necessary to re−establish the trend for the observed product thickness, e.g. 0.62 and 0.41 feet. The history of this injection well has never shown this much product before, e.g. with max of 0.11 feet on 8/11/2011 and last seen 0.01 feet on 12/20/2013. We will need to re−open the spill to do that. Let´s do the call next Monday 12/5/2016, at 11:00am? Let us know.

12/5/2016 − Feng − conference call among ARCADIS Andy Korik and Ira Buchanan, and NYSDEC J. Vought and J. Feng. Agreed to continue quarterly groundwater monitoring for IW−1, i.e. gauging, sampling of dissolved, product recovery if there is any for two more quarters. Spill to be re−opened.

12/7/2016 − spill is re−opened. re−opening letter to BP Randy Coil and ARCADIS. Changed lead from Jeff Vought to June Feng.

5/2/17−Vought−Received Well Decommissioning Summary, Remedial Activities and Groundwater Analytical Summary for First and Second Quarter 2017 from Arcadis (Korik). Vought sent an email to Korik with cc to Buchanan and Feng that

Andy, The report notes that ˆBased on Arcadis´ December 2016 phone conversation with Mr. Jeffrey Vought, if LNAPL was not observed in IW−01 during the January and April 2017 gauging and sampling, NYSDEC would consider closure of the spill number.˜However, our spill notes of the email correspondence from December 2016 noted that:ˆemail from J. Vought to Ira Buchanan Ira, Thanks for keeping me posted. Question for you: What is the site address for this site? When the Department closed the spill we attempted to ensure that there was a decreasing trend in the groundwater contamination in the remaining dissolved contaminants. With the appearance of free product we have to re−examine the trend to make sure that the remaining contamination is indeed attenuating. As such I am thinking that at least a few quarters of monitoring to re−establish that trend is warranted. However, I must admit I write the above with no site specific knowledge in hand (eg impending development). I will discuss the above with June and also we will consider reopening the spill if warranted. If this appears to be the best course of action we can have a teleconference to discuss further. We will keep you posted and feel free to forward this email onto the consultant as well, −Jeff 12/2/2016 − email from J. Feng to Ira Buchanan Ira, I agree with Jeff that at least a few more quarters of monitoring is necessary to re−establish the trend for the observed product thickness, e.g. 0.62 and 0.41 feet. The history of this injection well has never shown this much product before, e.g. with max of 0.11 feet on 8/11/2011 and last seen 0.01 feet on 12/20/2013. We will need to re−open the spill to do that. Let´s do the call next Monday 12/5/2016, at 11:00am? Let us know. 12/5/2016 − Feng − conference call among ARCADIS Andy Korik and Ira Buchanan, and NYSDEC J. Vought and J. Feng. Agreed to

continue quarterly groundwater monitoring for IW−1, i.e. gauging, sampling of dissolved, product recovery if there is any for two more quarters. Spill to be re−opened. Furthermore, the Department letter dated 12/7/16, also in Appendix D of the report, noted that we required collection of dissolved samples as well. Please collect at least two quarters of dissolved quarterly samples in hopes of demonstrating an attenuating trend of dissolved samples, which the Department requires on all of its petroleum contaminated sites. Please let us know if you would like this formalized in a letter which would be a reissuance of the December 7, 2016 letter. Thanks, Korik replied We do have two quarters (January and April 2017) of dissolved analyses for IW−01 in the report. You would like two additional quarters? Vought replied Andrew, I stand corrected and thanks for the clarification. So much for those quick early morning reports scans. Two quarters will be enough for us to consider closure. Thanks and apologies for the confusion .

5/31/2017 − Feng − This spill is transferred from June Feng to Jeffrey Vought as per Jeffrey Vought.

12/12/17 − Austin − Assigned from Vought to Feng − end

5/24/2018 − Feng − Reviewed the Well Decommissioning Summary, Remedial Activities and Groundwater Analytical Summary for First and Second Quarter 2017 (the Report), dated May 1, 2017, prepared by Arcadis U.S., Inc (Arcadis). The Report summarizes the groundwater monitoring activities subsequent to the re−opening of the above referenced spill and requests spill closure. Please note that the spill was closed on September 16, 2016. The spill was then re−opened on December 7, 2016 due to the discovery of 0.62 feet of LNAPL in IW−01 on October 6, 2016.

Groundwater monitoring shows that BTEX concentration is 33,650 ug/L in the January 2017 sampling event. Another groundwater monitoring in April 2017 shows BTEX concentration of 31,541 ug/L. The well IW−01 was installed and used as an injection well. No groundwater sampling has been performed until these two monitoring events and thus no groundwater concentration trend has been established for this well. Adequate remediation is required to reduce the BTEX concentration before spill closure can be granted.

letter denying spill closure to BP/ARCADIS. RAWP is required within 90 days, by end of August 2018.

Map Identification Number 44 **FORMER CITYGAS/LAGE CAR WASH** **Spill Number: 9909720** **Close Date:**
315 GRAND CONCOURSE BRONX, NY 10451 TT−Id: 520A−0008−940

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2132 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	GASOLINE STATION OR PBS FACILITY	Spiller:	315 GRAND CONCOURSE	Spiller Phone:	
Notifier Type:	Other	Notifier Name:	SCOTT GRAHAM	Notifier Phone:	(914) 345−0784
Caller Name:	SCOTT GRAHAM	Caller Agency:	S & W SERVICES	Caller Phone:	(914) 345−0784
DEC Investigator:	AXDORONO	Contact for more spill info:	MR LAGE	Contact Person Phone:	(914) 793−5201

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/10/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CAR WASH A WHILE AGO WAS A GAS STATION−SITE ASSESSMENT PERFORMED WHICH SHOWED SOIL TO BE CONTAMINATED.

DEC Investigator Remarks:

PBS 2−402877

On December 8, 1999, DEC Sigona called S & W and spoke to Ms. Antoinette Day, who would leave a message for Scott Grahm. DEC Requested a copy of site assessment provided mailing address to S & W.

1/7/04 Reassigned from Sigona to K Foley. Formerly Citygas station. (KMF) 3/22/06 Reassigned from Foley to Tang.(KMF)

12/20/06: This spill is transferred from Mr. Koon Tang to Q.Abidi. Called Mr. Lage (914)793−5201 and left message to call me back regarding information of the spill. −QA

03/05/07: Called at (914)793−5201, They don’t know about S & W Company and they don’t have any clue for this spill. −QA

04/03/07: Called Mr. lage at (914)793−5201 he was not available left message to call me back. −QA

07/11/07: Called Mr. John Lage (owner) at (915)637−3895 to discuss regarding present status of the spill. He was not there talked to Mr. Tony Ribeiro, Office Manager (Lage Management Corporation) he said he has already done Phase 1 and Phase 2 and he said he will send me the reports. −QA

08/30/07: Called Mr. John Lage (owner) at (914)637−3895 for Phase 1 and Phase 2 report. He was not there left message to call me back. −QA

09/06/07: Called Mr. John Lage at (914)637−3895 he was not there, left message to called me back to discuss regarding Phase 1 and Phase 2 report that i did not received. −QA

09/13/07: Called Mr. John Lage (LMC) at (914)637−3895 he was not there. Left message to call me back. −QA

09/17/07: Called Mr. John Lage (LMC) at (914)637−3895 He was not there. Left message to call me back. −QA

09/21/07: Called Mr. John Lage (LMC) to discuss regarding spill. He was not there left message to call me back. −QA

10/05/07: Called Mr. John Lage (LMC) to remind him to send Phase 1 and Phase 2 report. He was not there left message to call me back. −QA

06/26/2008: This spill case was transferred to A. Doronova. − AD

11/2008: To find a current owner. To send an INL. AD

12/22/2008: Called and left a message to Mr. Lage's secretary. Found on ACRIS information that Citicorp North America Inc. (Invine, CA)owns the property now. Was given phone number: (212)816−0885 of Particia Brigantic (Office of General Counsel for this company). Called and left a message. AD

12/29/2008: Did not receive any response yet. Called and left messages to Mr. Lage and Ms. Brigantic. AD

04/06/2009: Did not receive any response yet. Called few times. Later spoke with P. Brigantic regarding the spill. She asked me to email her this request, in order to forward it to a person in charge of environmental issues in this company. Sent an email to P. Brigantic. AD

04/08/2009: Received an email from P. Brigantic saying:

Ms. Doronova− I have checked internally here at Citi and this does not relate to any of my clients. I have forwarded this information to the 2 co−heads of Citi's litigation dept. and they will assign it to someone.

Thanks and regards, Patricia

AD

04/20/2009: Received a phone call from Preston Turner − Associate General Counsel of Citi Litigation Service Center. He was reffered this case from P. Brigantic. Informed him about site's situation. Mr. Turner will check his files for this property and get back to us. He also asked for time extention to respond on my e−mail, which was granted. AD

04/22/2009: Received an email from P. Tutner of Citi saying:

Dear Ms. Doronova: This e−mail will confirm our telephone conversation wherein I responded to your e−mail originally sent to Patricia Brigantic of Citigroup, Inc.

Citigroup North America, Inc. is a separate legal entity, and will respond to your inquiry.

This e−mail will confirm that you have extended the date by which Citigroup North America, Inc. must respond to your inquiry to May 20, 2009.

Thank you for the accommodation.

Preston Turner Associate General Counsel Citi Litigation Service Center 300 St. Paul Place, BSP17D Baltimore, MD 21202 (410) 332−3687 (443) 450−4314 (Facsimile)

AD

05/18/2009: Received an e−mail from P. Turner saying:

Dear Ms. Doronova:

This e−mail will respond to the Division of Environmental Remediation's inquiry below related to NYSDEC Spill No. 9909720, and 315 Grand Concourse, Bronx, NY − Block #02344, Lot #0027 (the Property). By e−mail dated April 22, 2009, I confirmed with you the extension you granted to Citigroup North America, Inc. to respond to the inquiry by May 20, 2009.

I write to advise you that after inquiry, I have determined that Citigroup North America, Inc. (CNAI) is not an owner of the Property. CNAI is an assignee of a security interest in the Property, but not an owner. According to the records on file with the New York City Department of Finance, the current owner of the Property is: 315 R.E. CORP., a New York Corporation. 315 R.E. CORP. is the owner by virtue of a Deed from the New York City Economic Development Corporation recorded on August 15, 2000. See enclosed ACRIS Search Results for the Property as of April 20, 2009. CNAI is the assignee of a Mortgage as reflected in the enclosed January 26, 2004 Assignment of Mortgage, which was recorded in the land records on or about July 27, 2004.

For your information, the New York Division of Corporations identifies the following information about 315 R.E. CORP.:

Principal Executive Office: 4291 Boston Post Road, Pelham Manor, NY 10803. Chairman/CEO: John Lage. I believe 315 R.E. CORP. is represented by Robert Bernstein, Esquire of Scarsdale, NY (914) 472−8455.

As Citigroup North America, Inc. is merely an assignee of a security interest in the Property, and not the owner of the Property, CNAI is not in control of the Property, including any current remediation efforts. If you disagree and contend that CNAI is responsible as a person with merely a security interest in the Property, please let me know. Otherwise, I will respectfully consider this inquiry satisfied.

Thank you again for the accommodation in extending the response date to your inquiry. I hope the information I have provided you as to the Property's ownership is useful in your future inquiries related tot he Property.

Sincerely,

Preston Turner Associate General Counsel Citi Litigation Service Center 300 St. Paul Place, BSP17D Baltimore, MD 21202 (410) 332−3687 (443) 450−4314 (Facsimile)

To send an Outstanding Violation letter to the owner:

John Lage 315 R.E. CORP.: 4291 Boston Post Road, Pelham Manor, NY 10803

Also, 315 R.E. CORP. is represented by Robert Bernstein, Esquire of Scarsdale, NY (914) 472−8455.

Issued and sent an Outstanding Violation letter to Mr. Lage. Response is due June 18, 2009. AD

06/01/2009: Received some documentation from Mr. Lage. Will review. AD

08/19/2009: Reviewed the submited data. It includes: − Tank Removal proposal dated November 9, 1999 from Papitto Construction Co., Inc. addressed to Mr. Lage; − Subsurface investigation report (SIR) dated November 4, 1999 prepared by S&W Services, Inc. addressed to Mr. Vincent Papitto of Papitto Construction Co., Inc. The SIR states that S&W Services completed the investigation at the site on October 21, 1999. The site has one 4,000−gallon UST, one 6,000−gallon UST and forteen 550−gallon USTs. SI included advancement of 14 soil borings around USTs and collection of 14 soil samples for VOCs and SVOCs analysis. Soil boring logs data indicate that the depth to bedrock across the site ranges from approximately 1 foot to 6 feet. VOCs analytical data indicates very highly contaminated areas in the vicinity of soil borings: SB−4, SB−5, SB−7, SB−9, SB−10 and SB−11. High concentrations of SVOCs were found in borings: SB−1, SB−3, SB−4, SB−5, SB−10 and SB−12. The consultant recommended removal of USTs and contaminated fill material. No documentation was submitted on USTs removal. AD

10/29/2009: Searched in PBS base for USTs removal info. This site has PBS# 2−402877. According to PBS Facility Information Report, eight USTs were removed from the site on December 17, 2001. USTs description matches description of the tanks in Tank Removal Proposal from Papitto Construction Co., Inc. To contact Mr. Lage and request submission of the USTs Closure report. AD

01/08/2009: Called and spoke with Mr. Toni Riverra of Boulevard Car Wash and requested to submit USTs closure and removal report. AD

09/07/2010: Called and spoke with Mr. Riverra of Boulevard Car Wash regarding the reports submission. He told me that another Phase I investigation was performed by Hydroteck in 2005. requested to submit Phase I report from 2005 and UST closure report from 2001 till November 7, 2010. AD

12/2010: Did not receive any response from Mr. Riverra. Called and left a message. AD

05/2011: Called and left a message to Mr. Riverra of Boulevard Car Wash. AD

01/04/2012: Issued and sent a Notice of Violation Letter addressed to Mr. Lage of 315 R.E. Corp. by certified mail (#7006 0100 0006 2620 3467). Response is due February 4, 2012. AD

02/07/2012: Did not receive any response. To send Final Notice Letter. AD

02/21/2012: Issued and sent Final Notice letter to Mr. Lage by certified letter (# 7006 0100 0006 2620 3405). Response is due March 6, 2012. DL the letter to eDocs. AD

02/23/2012: Received a phone call from Mr. Riverra. he said that he will submit Phase I report from 2005 next week, and that he will try to locate UST closure report from 2001 done by Papitto Construction Co., Inc. AD

02/24/2012: Received Phase 1 Report on a CD from Mr. Riverra. DL all submitted documents to eDocs. UST closure report submission is due. AD

01/2013: called and left a message to Mr. Rivera. AD

03/2014: called and left a message for Mr. Rivera. AD

02/10/2017: called and left a message for Mr. Rivera with the secretary. AD

Map Identification Number 45 **FREDERICK DOUGLASS ACADEMY** **Spill Number: 1608021** **Close Date:**
2581 ADAM CLAYTON POWELL JR BLVD MANHATTAN, NY TT−Id: 520A−0325−468
148TH STREET LENOX TERMINAL STATION

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 2412 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: 2581 ADAM C POWELL BLVD
Revised zip code: 10039

Source of Spill: COMMERCIAL/INDUSTRIAL Spiller: MUNENDRA N. SHARMA − NYC DEPT OF EDUCATION Spiller Phone:
Notifier Type: Other Notifier Name: Notifier Phone:
Caller Name: Caller Agency: Caller Phone:
DEC Investigator: AAOBLIGA Contact for more spill info: ISABEL Contact Person Phone: (646) 252−5777

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/15/2016		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

School next to building is leaking clean up is pending School has not been notified at this time

DEC Investigator Remarks:

11/16/2016: Rashad Called Isabel and left message.

11/17/16 − Obligado − This spill has been assigned to me as per Vought as it is a NYCT subway facility.

According to Francine, NYCT observed an intrusion at 148th Street Station/Lennox Yard in Manhattan. With the water there is a sheen, and it is suspected the school, which has a boiler room on the other side of this wall has had a release. OSS has been told, no one from the school has been able to be contacted. The intrusion is intermittent, but was first identified sometime on Tuesday 11/15/2016.

We are seeking the assistance of NYSDEC, please advise if an investigation will be conducted to see if the school is the RP of this most recent Intrusion. I believe Omar also called Isabel to follow up, and may be assigned to the case.

I called Francine Maebauer. The product is seeping into the under ground station. The seep is in a non public area. The hydraulics division believes that there is a tank adjacent to the station in the Frederick Douglas Academy. They will arrange for access for me to observe the seep.

I called DOE Fuel Division and spoke to Munendra at 718−349−5752 regarding PBS #2−354007 Public School 10 at 2581 Adam Clayton Powell Jr Blvd, which is the adjacent school. He said they have 2 15,000 double wall ASTs. I will meet Tilac Ramautar 347 764 3949 at the site.

11/18/16 − Obligado − I met Tilac at the site and we inspected the basement. There was approximately 2 inches of water in the basement and floating oil on the water leaking from an oil transfer pump. We walked outside to the NYCT subway yard and there was oil on top of water in a small alcove area adjacen to the building. Tilac hired Riteway who arrived and began pumping oil and water from the basement. They then proceeded to remove oil stained debris and pump out oil and water from the NYCT yard alcove area. When I left the site at 1600 hrs Riteway was still working in the yard area.

11/19/16− Obligado − I inspected the site first thing in the AM and observed that the NYCT yard alcove area still had water with floating oil on top, about a 20 square foot area, slightly smaller then the day before. After returning to the office I called Riteway and Anthony Lara said his guys finished pumping oil from the alcove area yesterday and today they were working in the tank room to pump oil and water from the tank room. He said that the oil I saw in the alcove had come back in over night after he pumped the area dry. He said the remediation work in the NYCT will be more complicated as the oil appears to be coming from the subsurface. He said there is about 3 ft of soil in that area that is likely contaminated and he does not have authorization from NYCT to do excavation in that area.

I called BOE Munandra and reiterated to him the situation in the NYCT yard and he agreed that additional work will need to be done but they will do what they have to do. He said they will do a full system test on the system to make sure there are no continuing leaks.

11/21/16 − Obligado − I spoke to Francine and told her the status of the clean up and that the remediation was more complicated due to subsurface impacts in the yard. We agreed to potentially have a site meeting to discuss further.

I called Rob Hill of Riteway. They are cleaning tank 1 today and they will test the system after. Tomorrow they will empty and clean and test Tank 2.

11/23/16 − Obligado − Representatives from NYCT (Francine Ocampo and others), DOE, and DEC (Obligado) and Riteway (Anthony Lara) met at the site to discuss the spill and remedial options. The subway yard alcove was still impacted by petroleum. Floating oil was still present on top of standing water. The following is a summary:

DOE will submit a Remedial Work Plan for to remediate the alcove. NYCT will provide subway yard as builts of the Area of Concern to DEC, to provide to DOE. The Area of Concern is the alcove north of the walkway. We discussed remediation via a guzzler to remove contaminated soils, water, and product. The RAWP will need to be approved by NYCTransit. The RAWP will need to be P.E. Stamped.

11/30/16 − Obligado − I sent an email summary to all parties with the following points:

− According to the DOE, the tank system at the School passed a complete system test. − At the time of the meeting, the sump pump in the school basement was still inoperable. DOE needs to replace the pump which may address high water table conditions. − The DEC requires additional clean−up work in school tank vault which still had residual oil and contaminated material on the vault floor. − The Area of Concern (AOC) for remediation in the subway yard is limited to the square alcove area west (school side) of the elevated walkway. There may be has much as 3 feet of residual fuel oil contaminated soil on top of bedrock in the alcove from historic oil spill(s) from the school basement. The high water table appears to have brought residual oil to the surface. − The current conceptual remedial plan is to use a guzzler to remove oil and contaminated soil from the alcove. If feasible, the guzzler hose will snake through the gap between the school and subway station walls. Riteway may need to find an alternate type of hose which will fit through that gap. − NYCT will provide the DEC with as−built drawings of the AOC. DEC will provide drawings to DOE to develop a Remedial Action Work Plan (RAWP) − DOE will submit a RAWP for the remediation of the subway yard to the DEC. After DEC review, DEC will provide the RAWP to NYCT for approval.

− NYCT requires the RAWP to be signed by a P.E.

1/6/17 − Obligado − I sent Francine an email inquiring if they had located design drawings of the area in question yet.

1/10/17 − Obligado − I emailed Munendra to inquire about the status of the clean up in the School. According to Mununendra the status is as follows:

Thus far both oil pumps and sump pumps were replaced. All debris and contaminated materials were removed and properly disposed. The entire tank room including the tanks were power washed clean. Both tanks are getting painted. When this is done we will we will epoxy paint the tank room floor.

1/12/17 − Obligado − I spoke with Francine Ocampo at NYCT system safety. They have no additional design drawings of the area in question. She said based on her discussion with NYCT MOW generally speaking the conceptual guzzler plan for soil removal was ok. I sent an email to Munendra informing him there are no additional design drawings and that he should submit a Work Plan to the DEC which will be forwarded to NYCT for review.

2/2/17 − Obligado − I inspected the boiler pump room and tank room with Anthony of Riteway and Tilak from DOE. The clean up in the building is complete. The entire tank vault has been cleaned and apoxy painted. He still plans to paint the boiler pump room. The sump pump has been repaired and was operational. In the NYCT yard, the ponded water and floating product has subsided below the surface. A small 1 x 1 pit was evident in the alcove, it is unknown who dug the pit. Free product was observed in the pit at about 1 ft depth, which is the presumed new depth to water when the sump pump is operational. It appears that the water level in the alcove yard and the sump room are hydraulicly connected. Riteway will develop a remedial plan.

4/25/17 − Obligado − I sent a letter to the NYC Dept of Education Mr. Sharma notifying him that the RAWP is overdue. I required submission of the overdue RAWP within 30 days or this case will be referred to the office of General Counsel.

5/2/17 − Obligado − I received the work plan submitted by Riteway. I disapproved the work plan based on the below comments and required resubmission within 30 days.

1) results of Engineering Assessment included in the plan 2) Utility Markout prior to excavation 3) 8260//8270 analysis 4) Scaled site plan showing excavation area 5) submission of Remedial Action Completion Report after remediation 6) Remove cost and contract language from submission 7) Implementation Schedule

5/22/17 − Obligado − I received the revised Work Plan.

6/7/17 − Obligado − I completed review of the Work PLan. Items 2 and 4 were not addressed in this second submittal. Due to failure to submit an acceptable and approvable workplan I sent Munendra Sharma of DOE a Stipulation AGreement to clean up the spill in accordance with a corrective action plan.

6/13/17 − Obligado − I spoke to Munendra over the phone. He said that Riteway did not have the resources to provide the RAWP the DEC required. He will have the School Construction Authority take over the clean−up as they have an engineering firm who is capable of preparing an appropriate work plan. I told him that I agreed with the proposed course of action.

7/14/17 − Obligado − I received a phone call from Melisa Demmet at SCA. SCA is taking over the clean up. A tentative site meeting is scheduled for 7/14/17 with AKRF and SCA.

7/19/17 − Obligado − I met SCA, AKRF, and NYCT personnel at the site. We inspected the school pump room and tank vault. We observed oil seeping up through the tank vault floor with the groundwater. Photos in edocs. There was a slight sheen on the water in the sump. We discussed the remediation plan. In light of the product seepage into the tank vault room, AKRF is considering doing some remedial investigation to determine the extent of the product plume beneath the building. Preliminary discussions for some hand borings in the basement and in the alcove. They will submit a Remedial Investigiation Plan to the DEC for review.

8/9/17 − Obligado − I reviewed and approved an investigation workplan to do 5 soil borings in the school basement. The borings will be 3 ft deep or to bedrock, which ever is shallower. The purpose of the boring is to observe for the presence of LNAPL beneath the school basement floor. Prior to advancing soil borings they will perform a geophysical markout both in the school basement and in the alcove area in the NYCT transit property. I forwarded the workplan to Michael Mandac of NYCT for access approval.

11/1/17 − Obligado − I reviewed the Spill Delineation Report. 5 soil borings were advanced in the basement. The borings were advanced 3 ft until bedrock refusal. No Groundwater or LNAPL was detected in the borings. Elevated PID readings were detected between 47.8 ppm and 403 ppm in SB5. No LNAPL was detected in the soil borings. The report recommends excavation in accessible area, and to the amount practically feasible, collection of post excavation soil endpoint samples, and backfilling with clean backfill. I sent an email to Melissa Demerrit concurring with the recommendations and requesting submission of a Remedial Action Work Plan.

11/6/17 − Obligado − RAWP received.

11/9/17 − Obligado − I reviewed the RAWP. The plan proposes to excavate the contaminated soil in the alcove area to extent feasible and collection of endpoint samples. I provided comments on the RAWP.

11/15/17 − Obligado − I reviewed a response from Melissa Demmett on my comments. She adequately addressed my comments. I sent an approval letter to NYCSA with 2 modifications, 1) remediation work during off−school days, 2) stockpiled soil will be covered

with plastic sheeting. RAWP implementation upon approval from NYCT Office of System Safety.

3/27/18 − Obligado − I received an email from Melisa Demmet at the NYCSCA.

We would like to touch base with regard to the on−going coordination and delays of the project. In a February field meeting was set−up to discuss the scope of work between IEH, AKRF and Lyudmila Bord and Miron Kuchuk from the Capital Program Management (CPM) group of NYCTA. At that time SCA was still awaiting feedback regarding RAWP approval and/or comments.

Last week AKRF received a call from Norman Lindo of the NYCTA, and he has requested the submission of a full−sized stamped drawing set with cross−section views showing the existing Transit structures and the extent of our excavation. He is particularly concerned about our proposed excavation shifting the footings for the control house. Since we currently do not have access to this information, AKRF will need to try to obtain this information from the NYCTA microfilm records.

In addition to the stamped drawing set, Track Safety Training is required and will be arranged by NYCTA.

4/12/18 − Obligado − I received and approved a revised RAWP Figure 2. The figure adds a 3 foot buffer around NYCT transit structures due to concerns of undermining the footings for the control house.

NO ACTIVE HAZARDOUS SPILLS − MISC. SPILL CAUSES − EQUIPMENT FAILURE, HUMAN ERROR, TANK OVERFILL, DELIBERATE SPILL, TRAFFIC ACCIDENT, HOUSEKEEPING, ABANDONED DRUM, VANDALISM AND STORMS − IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS.
All spills mapped and profiled within 1/8 mile. Between 1/8 mile and 1/2 mile search radius, spills reported to be greater than 100 units and spills reported in the NYSDEC Fall 1998 MTBE Survey are mapped and profiled. Spills reported to be less than 100 units are listed in a table at the end of this section.

THE FOLLOWING ACTIVE SPILLS FOR THIS CATEGORY WERE REPORTED BETWEEN 1/8 MILE AND 1/2 MILE SEARCH RADIUS FROM THE SUBJECT ADDRESS. THESE SPILLS WERE REPORTED TO BE LESS THAN 100 UNITS IN QUANTITY AND CAUSED BY: EQUIPMENT FAILURE, HUMAN ERROR, TANK OVERFILL, DELIBERATE SPILL, TRAFFIC ACCIDENT, HOUSEKEEPING, ABANDONED DRUM, VANDALISM, OR STORMS. THESE SPILLS ARE NEITHER MAPPED NOR PROFILED IN THIS REPORT.

FACILITY ID	FACILITY NAME	STREET	CITY
1706148	IN THE BASEMENT	558 MORRIS AVE	BRONX
9706926	MOTT HAVEN RAILYARD	156 ST & PARK AV	BRONX
1602957	VAULT 1376	158TH ST AND CONCOURSEVILLAGE W	BRONX

CLOSED STATUS TANK FAILURES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 46 **HOSTOS COMMUNITY COLLEGE** **Spill Number: 0409591** **Close Date: 03/14/2006**
WALTON AVE EAST 144TH ST. BRONX, NY TT−Id: 520A−0012−085

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1376 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: WALTON AVE / E 144TH ST
Revised zip code: 10451

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Notifier Type: Responsible Party
Caller Name: CRAIG PUERTA
DEC Investigator: TLGIBBON

Spiller: HOSTOS COMMUNITY COLLEGE
Notifier Name: HOSTOS COMMUNITY COLLEGE
Caller Agency: LANGAN ENGINEERS
Contact for more spill info: CRAIG PUERTA

Spiller Phone:
Notifier Phone: (917) 295−5291
Caller Phone: (212) 479−5400
Contact Person Phone: (212) 479−5400

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/27/2004		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

while drilling test holes at the site they found an abandoned tank with soil contamination around the tank.

DEC Investigator Remarks:

1/27/05 TJD Tarek Khouri contacted Demeo on 1/24/05 to obtain status of report review for this site. Report is dated 1/13/05.
Although a complete review of the submission had not been completed, a quick phone conference regarding this site took place.

Contamination above TAGM has been identified through sampling. Langan proposes to close the tanks in place with no remedial action other than the removal of contaminated soils excavated by hand during the tank closure activities. This approach is proposed due to access constraints at this site. Demeo told Mr. Khouri that a new remedial plan would need to be developed to address the contaminated soil exceeding TAGM. An effort would need to be made to remediate impacted soils in situ prior to considering this site for closure. Mr. Khouri has stated he will discuss this with his client and resubmit a work plan to NYSDEC.

6/8/05 − Project transferrd to TLGibbons in Central Office, Albany

9/14/05 − Spoke with Craig Puerta, Langan Engineering (212−479−5400), contractor to Hostos Comm. College. Said site is a former gas station with two 2,000 gal diesel fuel USTs located on campus, surrounded by four trailers which makes access very difficult. They are looking for funding from DASNY before work begins. Preliminary data shows soils surrounding tank impacted above TAGM. Closing in place not an option so remedial work will require significant work to be done by hand to to limited access. Spoke with Art Fasilino, CUNY, 212−541−0440, who said that funding has been secured from DASNY (Samir Rimawi, 917−295−5291) and they are waiting on funding from CUNY. He indicated that this project was a low priority.

1/3/06 − Received call from Tarek Khouri, Langan (212−479−5450). Remediation work had begun with tanks being uncovered today. Tanks both filled with water/fuel mixture which was pumped out. Removed concrete above tanks, cut open and cleaned tanks. Cut through bottom of tanks which are resting on concrete. Bore through tank bottom and concrete and encountered bedrock. Bedrock @ 7' bgs. Tanks solid (not leaking) but piping to tanks leaking with stained soil and petroleum odor. Asked Tarek to send pictures of excavation. Pictures showed minor soil impacts, but very little soil on bedrock. Asked Langan to clean up contamination above bedrock and collect end point samples.

2/7/06 − Spoke with Mr. Khouri. Five endpoint samples, and one runoff water sample, were collected.

3/14/06 − Received closure report on 3/13/06. Only one sample showed elevated levels of VOCs, HT03A, primarily 1,2,4 and 1,3,5 trimethylbenzene. Toal VOCs from this sample were 54,348 ug/kg. This sample was collected from the minor soil remaining on top of competent, crystalline bedrock. The tanks were completely removed, all contaminated media was disposed at a permitted facility, and the excavation was backfilled with clean soil. Close spill.

Map Identification Number 47 **225 EAST 149TH ST/BX** **Spill Number: 9011867** **Close Date: 05/25/1995**
225 EAST 149TH STREET NEW YORK CITY, NY TT−Id: 520A−0008−023

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1525 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Other
Caller Name: JIM CARY
DEC Investigator: WILSON

Spiller:
Notifier Name:
Caller Agency: CASTLE OIL
Contact for more spill info:

Spiller Phone:
Notifier Phone:
Caller Phone: (212) 823−8800
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/12/1991	05/25/1995	TANK FAILURE	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	40.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

MANHOLE COVER GASKET BROKE ON TANK,OIL COMING OUT OF TANK TOP(2K TANK)IN TANK ROOM,A L EASTMOND TO DO CLEAN UP.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 48 **EXCAVATION** **Spill Number: 0505007** **Close Date: 10/11/2006**
675 MORRIS AVE BRONX, NY TT−Id: 520A−0007−815

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1745 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: NON−MAJOR FACILITY (>1100 GAL)
Notifier Type: Other
Caller Name: DOUG HARM
DEC Investigator: SFRAHMAN

Spiller: DOUG HARM − EXCAVATION
Notifier Name: DOUG HARM
Caller Agency: BRINKERHOFF ENVIR.
Contact for more spill info: DOUG HARM

Spiller Phone: (732) 223−2225
Notifier Phone: (732) 223−2225
Caller Phone: (732) 223−2225
Contact Person Phone: (732) 223−2225

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/22/2005		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

Caller Remarks:

LEAK FROM UNDERGROUND STORAGE TANK:

DEC Investigator Remarks:

7/26/05 − Sangesland spoke to Doug Harm of Brinkerhoff Envir. He said they are developing a vacant site and they found a buried 550 gal UST. Tank was pulled and approx. 300 cubic yards of contamianted soil was stockpiled waiting for disposal. They will take end point samples and compare them to TAGM limits and send it in.

Consultant knew what to do − No Contaminated Soil Letter was sent

10/26/05 − Austin − Project reassigned from Krimgold to Rahman − end 02/27/06 Sharif Rahman− I spoke with Doug Harm,(732)223−2225 and he would send DEC the final closure report in 5/6 weeks. 05/08/06 Sharif Rahman− I spoke with Doug again, he would send me the summary of investigation for review first, then the final report. 10/04/06 Rahman− Nine UST were discovered ranging from 275 gallons to 2,000 gallons in size.Tanks showed evidence of discharge.Brinkerhoff excavated and properly disposed approx. 465 tons of petroleum−impacted soil.Analyticals reuslts showed elevated levels of PAH cmpounds that had historicaly been over the NYS DEC TAGM's soil clean up objectives as a result of historic fill material.Five end point samples were collected.VOCs were non detectable in all samples. Several SVOC PAHs were reported over DEC SCO, but these PAHs are the same PAHs that were identified in the historic fill found throughout the site.Placement of a impermeable cap comprised of concrete is projected to be completed in October 2006.

Map Identification Number 49 **101−125 WEST 147TH ST.** **Spill Number: 9308461** **Close Date: 05/16/1994**

101−125 WEST 147TH ST. MANHATTAN, NY TT−Id: 520A−0098−517

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2380 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10039

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:		Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:	VON STEWART	Caller Agency:	ESPLANADE GARDEN INC.	Caller Phone:	(212) 368−7700
DEC Investigator:	O'DOWD	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/13/1993	05/16/1994	TANK FAILURE	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	0	UNKNOWN	0	UNKNOWN	SURFACE WATER

Caller Remarks:

CRACK IN UNDERGR. TANK LEAKING UNDERGROUND INTO RIVER. ALSO CALLED EPA − UST 3 TANKS ON SITE TRATING 2 BUILDING.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 50 **101−165 W 146TH ST/BX** **Spill Number: 8902952** **Close Date: 12/27/2000**
1010165 WEST 146TH STREET NEW YORK CITY, NY TT−Id: 520A−0100−751

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2402 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: 133 W 146TH ST
Revised zip code: 10039

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: NYC TRANSIT AUTHORITY
Spiller Phone:
Notifier Type: Tank Tester
Notifier Name:
Notifier Phone:
Caller Name: SEBASTIAN LOREFICE
Caller Agency: TANK TESTING
Caller Phone: (718) 789−3770
DEC Investigator: MCTIBBE
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/19/1989		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	GROUNDWATER

Caller Remarks:

(2) 5K TANKS IN SYSTEM, TRIED HORNER EZY CHECK BUT STOPPED TEST WHEN VISIBLE LEAK WAS NOTICED ON TANK TOP OF ONE TANK.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE 11/15/94: REASSIGNED FROM SIGONA TO ZHITOMIRSKY ON 11/15/94. transfered from Hale to Tibbe on 12/27/00. refer to 89−02374. remediation ongoing.

Map Identification Number 51 **775 CONCORSE VILLAGE EAST** **Spill Number: 9709702** **Close Date: 07/13/1998**

775 CONCORSE VILLAGE EAST BRONX, NY TT−Id: 520A−0013−553

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2509 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: 775 E CONCOURSE VILLAGE
Revised zip code: 10451

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	JENNIFER JONES		Spiller Phone: (718) 588−2603
Notifier Type:	Other	Notifier Name:	JOE OSTAYSKI		Notifier Phone: (718) 378−3000
Caller Name:	JERRY WILLIAMS	Caller Agency:	CONTROLED COMBUSTION		Caller Phone: (718) 367−9800
DEC Investigator:	MCTIBBE	Contact for more spill info:	JENNIFER JONES		Contact Person Phone: (718) 588−2603

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/20/1997		TANK FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

4 tanks were tested #2 #3 were leaking they have been shut down and pumped out − spill contained a cement vault

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE SEE FILE. SEE ALSO 97−14390.

Map Identification Number 52 **PATTERSON HOUSES** **Spill Number: 9414368** **Close Date: 03/31/1995**
301 EAST 143RD STREET BRONX, NY TT−Id: 520A−0012−082

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2594 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10451

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: NYC HOUSING AUTHORITY
Spiller Phone: (212) 306−3142
Notifier Type: DEC
Notifier Name:
Notifier Phone:
Caller Name: JANE HEALY
Caller Agency: NYSDEC
Caller Phone: (718) 482−4933
DEC Investigator: HEALY
Contact for more spill info:
Contact Person Phone:

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/19/1995	03/31/1995	TANK FAILURE	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	−1.00	GALLONS	0.00	GALLONS	GROUNDWATER

Caller Remarks:

BROKEN FUEL LINES. SEEPAGE BEGAN IN NOVEMBER, HAS CONTINUED UNABATED. NYCHA TO REPLACE FUEL LINES.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

CLOSED STATUS TANK TEST FAILURES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 53 **USPS VEHICLE MAINT. FAC.** **Spill Number: 9007668** **Close Date: 05/11/2001**
580 GERARD AVENUE NEW YORK CITY, NY TT−Id: 520A−0010−605

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 0 feet

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: GERARD AVE VMF
Spiller Phone: (212) 960−5037
Notifier Type: Tank Tester
Notifier Name:
Notifier Phone:
Caller Name: LLOYD PETERSON
Caller Agency: TANKNOLOGY
Caller Phone: (609) 753−9111
DEC Investigator: SJMILLER
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/13/1990		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

3K TANK FAILED VACUTEST WITH A GROSS LEAK, POSSIBLE VENT LINE, WILL NOTIFY VMF.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was MILLER 5/15/01: OFF HOUR SPILL REPORT OF TANK TEST FAILURE ASSIGNED TO BATTISTA FILE. REASSIGNED TO RESPONDER MILLER. CROSS−REFERENCE TO SPILL REPORT NO. 9213223: SAME FACILITY. ACCORDING TO SUBMITTED ATC REPORTS: 5,000−GAL. FO UST WAS REMOVED AND REPLACED (W/2,500−GAL UST) IN 1993; 2000 SUBSURFACE INVESTIGATION SHOWED NO VISUAL, OLFACTORY, OR PID EVIDENCE OF CONTAMINATION/RELEASE. SOIL ANALYSIS WERE NON−DETECT FOR VOCS, AND PAH LEVELS ARE CONSISTENT WITH OBVIOUS FILL MATERIAL (i.e., COAL/ASPHALT); GROUND WATER WAS NOT ENCOUNTERED BEFORE BEDROCK REFUSAL AT 12 FT DEPTH.

Map Identification Number 54 **NYCDOS TANK TEST FAILURE** **Spill Number: 1204620** **Close Date: 09/18/2012**

545 GERARD AVE / 125 EAST 149TH STREET BRONX, NY TT−Id: 520A−0275−603

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 367 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: 125 EAST 149 STREET
Revised zip code: 10451

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: TJ OCONNOR − NYC SANITATION
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: TJDEMEO
Contact for more spill info: AL MIGNONE
Contact Person Phone: (646) 235−3183

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/08/2012		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	0	GALLONS	0	GALLONS	

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks:

DEMEO needs to send a TTF letter to Sanitation)

8/9/12−Vought−Notes above by DEC Sangesland. Vought primary off−hours responder. Vought noted PBS #2−455660 for site also listed as 125 East 149th Street. As primary off−hours responder, Vought called TJ O'Connor (Dry As A Bone Ph:516−678−5115) to see if failure was wet or dry leak and left message on voicemail to return call as soon as possible. Vought called Al Mignone

(Ph:646−235−3183) for more information and left message to return call. Vought called PBS contact:

NYC Dept. of Sanitation 125 Worth Street Room 823B New York, NY 10013 Attn: M. Bonacorsa Ph:(646)885−4874 Fax:(212)442−8624 or (212)442−8625

Bonacorsa retired from NYCDOS as per receptionist and letter should be sent to Mr. Chingas. Vought sent out TTF letter to above address and faxed letter as well. Vought sent out letter to NYCDOS Chingas and added copy to e−docs and left Demeo copy as well.

9/18/12 TJD File review. NYSDOS (Al Mignone) has provided copies of initial failing tank test report performed on 8/8/12 (Dry as a Bone) and a subsequent passing tank test report performed on 8/13/12 (AARCO). Initial failed test was reported as a dry leak. NYCDOS reports no repairs were made to system and was retested by another contractor and passed. Testing reports and e−mail correspondence have been uploaded to E−DOCS. No further action is required.

Map Identification Number 55 **NYC DEPT OF SANITATION TTF** **Spill Number: 1203859** **Close Date: 09/26/2012**
545 GERARD AVE BRONX, NY TT−Id: 520A−0275−578

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 367 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10451

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: PJ OCONNOR − NYC DEPT OF SANITATION
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: TJDEMEO
Contact for more spill info: WINDMILL − ASK FOR JIM OR LEE
Contact Person Phone: 6313601664

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/19/2012		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	

Caller Remarks:

TTF 0 spilled

DEC Investigator Remarks:

9/26/12 TJD File review. NYCDOS (Al Mignone) has provided required documentation in support of spill closure relating to

reported tank test failure. System failed initial system test (Dry as a Bone)on 7/17/12 − reported as a dry leak. Tank alone was retested on 7/23/12 and passed. Failure determined to be associated with a failed vent pipe which was replaced 9/11/12 by Windmill Tank Service. Additionally threads on interstial space access bung on tank top were also determined to be contributing to an air leak and were repaired by maufacturer (Highland Tank) on 9/11/12. Following repairs entire tank system was retested by AARCO on 9/13/12 and passed. No further action is required. Spill closed.

Map Identification Number 56 **SPARTAN PETROLEUM/ MOBIL STATION** **Spill Number: 9909670** **Close Date: 11/13/2008**

99 EAST 149TH ST BRONX, NY TT−Id: 520A−0008−938

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 475 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION OR PBS FACILITY
Notifier Type: Tank Tester
Caller Name: MATTHEW MATCHETTE
DEC Investigator: jamaison

Spiller: HANK ALPERT − SPARTAN PETROLEUM
Notifier Name: MATTHEW MATCHETTE
Caller Agency: CROMPCO CORPORATION
Contact for more spill info: JAY SEMMELMACHER

Spiller Phone: (516) 365−8700
Notifier Phone: (610) 278−7203
Caller Phone: (610) 278−7203
Contact Person Phone: (516) 295−3400

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/09/1999	02/11/2004	TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL
MTBE (METHYL−TERT−BUTYL ETHER)	HAZARDOUS MATERIAL	0	UNKNOWN	0	UNKNOWN	

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
	4000	USTest 2000/P/LL plus USTest 2000/U	0.00	UNKNOWN

Caller Remarks:

WILL REPAIR AND RE−TEST AS OF TOMMOROW'S DATE 11−10−99

DEC Investigator Remarks:

PBS 2−156590 1/20/04 File review (Foley): Prior to divesting this site in March 1990, a site assessment was performed by Roux (hired by Mobil) which indicated elevated BTEX existed in both groundwater and soil, but no free product was found. Upon transfer of property(8/90), the new owner began to install new USTs. During tank replacement, 875 tons of contaminated soil was removed and disposed of. During construction, two upgradient wells were destroyed. Three downgradient wells remained intact. The two wells which were destroyed showed ND for BTEX during sampling.

In May 1991, there was an apparent vapor problem in the kiosk at the now active Amoco station. Amoco installed a venting system to alleviate the problem. Based on this, Mobil installed two borings and one well in the vicinity of the kiosk. The report indicated that the soils surrounding the kiosk did not contain very high levels of BTEX in soil. The monitoring well installed contained 0.01' of product. This well is upgradient of all former Mobil tank areas. Additional constuction at the site for a car wash has destroyed three downgradient wells. Thus, only one well remains on the property. However, upon completion of the construction, up to ten additional wells shall be installed at the site. Wells will be installed after construction is completed.

11/91 Eleven monitoring wells and a sparge point were installed. 12/9/91 MW−11 had 0.84' of product. 1/22/92 MW−11 had 0.21' of product.

2/20/92 MW−11 had 7.16' of product. A vac truck has been scheduled on a biweekly basis to extract LNAPL from MW−11.

3/92 LNAPL was detected in MW−11 (0.07−3.02'). Approx 70gal was extracted from MW−11 on 3/4, 3/13, 3/16 using vac truck. Trace amounts of LNAPL were hand−bailed from MW−11 on 3/18 & 3/27. Water sample from car wash well was collected by Tyree, analyzed by Method 602, and returned ND.

4/92 MW−11 had 0.08−0.18' of LNAPL and approx 2.5gal LNAPL bailed.

6/8/92 An EZY Skimmer was installed in MW−11.

7/92−6/93 No LNAPL was detected in any wells.

1/94−3/94 MW−10 had 0.28' product. MW−11 had 0.01' product.

5/94 MW−11 had trace amount of product.

7/11/94 SVE started. DTW 16' bgs. 6 combination SVE/AS points. Will sample all MWs before sparge system started.

2/8/95 0.01' product in BD−1. BTEX from ND(MW−1) to 30,000ppb(MW−5).

10/27/99 Cross Deegan Realty notified by station operator of possible inventory loss. Alvin Petroleum exposed portions of system over next two weeks. No system leaks were detected.

11/9/99 Alvin Petro. requests a tightness test be performed. Crompco detected a leak in one of the four tanks and reported the failure.

11/10/99 Alvin Petro. exposed and removed remote fill box on the tank that failed test. A coupling that connects the piping to the overflow box was found cracked. The coupling was replaced and system retested tight.

11/16/99 Crompco retested system with FDNY and passed.

11/22/99 Impact Environmental performed a limited subsurface investigation of soil adjacent to coupling and concluded that gasoline had impacted soil/GW. Report states that current owner only intends on addressing contamination from 10/99 spill and not the 1992 spill.

10/31/00 Three wells sampled and gauged. SVE system removed from service. ORC socks in wells MW−1 and MW−5. BTEX from 15ppb(MW−12) to 868ppb(MW−1). MTBE from 31ppb(MW−11) to 49,000ppb(MW−1).

2/5/01 Seven wells sampled. BTEX from ND(MW−12) to 240ppb(MW−1). MTBE from <1ppb(MW−12) to 64,000ppb(MW−7).

4/26/01 Seven wells sampled. MTBE has increased in monitoring wells hydraulically downgradient from the current dispenser island and USTs. MTBE ranged from 14ppb(MW−11) to 920,000ppb(MW−10). BTEX ranged from 12.8ppb(MW−11) to 6,080ppb(MW−10).

10/23/01 Eight wells sampled. BTEX from 14ppb(MW−6) to 4,750ppb(MW−10). MTBE from 18ppb(MW−11) to 270,000ppb(MW−10).

1/17/02 Eight wells sampled. BTEX from ND(MW−5) to 1,794ppb(MW−10). MTBE from 29(MW−5) to 65,000ppb(MW−7).

4/30/02 Six wells sampled. BTEX from ND(MW−5 & MW−6) to 1173ppb (MW−10). MTBE from 7.6ppb(MW−1) to 24,000ppb(MW−5).

5/15/02 Sensitive Receptor survey identified PS 31 approx 850’ to the southeast. There are residential and commercial buildings with basements immediately adjacent to the site to the north. A subway tunnel is located beneath E 149th St.
−− 03/17/03 REASSIGNED FROM ROMMEL TO VOUGHT.

11/18/03 Received CAP/Remediation Plan, 3rd Quarter 2003 monitoring report, and tank test results(pass).

12/10/03 Reassigned from Vought to Foley. See closed spills #0307681, 9208906.

Review of Remediation Plan:

A SVE/AS system was installed by Handex and operated on the property to address spill #9208906. The system is comprised of four soil vapor extraction wells and six air sparge points. At this time, the system is not operational. A monitoring program is being performed.

11/9/99 Tank system tightness test performed by Crompco indicated a leak near the remote fill box. The leak was repaired. Soil staining and petroleum odor was noted below the fill box. Spill 9909670 was reported.

11/22/99 Impact Environmental started subsurface investigation. Groundwater results exceeded standards.

7/7, 7/25, 10/23/00 Enhanced fluid recovery performed on MW−2 as an IRM.

Impact Environmental proposes 1) monthly EFR on hottest wells for 6 months, 2) replacement/upgrade of air sparge equipment installed to address #9208906, 3) SVES to be modified to include MW−2.

9/3/03 Impact Environmental sampling data (for Amoco): BTEX levels range from ND(MW−5, 11, 12) to 1606ppb(MW−6). MTBE ranges from ND(MW−12) to 650,070ppb(MW−6).

10/6/03 GSC sampling data (for Mobil): BTEX ranged from ND(MW−2) to 3800ppb(MW−6). MTBE ranges from 9.8ppb(MW−11) to 1,240,000ppb(MW−6).

11/26/03 Impact Environmental data from 4Q2003 report shows MW−6 and MW−2 to be hot spots. BTEX ranges from ND(MW−12) to 6923ppb(MW−6). MTBE ranges from ND(MW−12) to 869,600ppb(MW−6).

2/2/04 Faxed stip to Mr. Hank Alpert, Cross Deegan Realty. Due back 2/23/04. (FAX 516−365−1606)

2/11/04 STIP returned. Cover letter states that a previous CAP for spill #9909670 was already approved by DEC and was authorized to develop CAP for spill #0307681 (dated 11/13/03).

2/13/04 STIP fully executed.

3/4/04 Letter received from DDC(Bruce Rottner) to J. Semelmacher. Requests Amoco's participation in DOT reconstruction project instead of reimbursement of cleanup costs.

3/15/04 Called B. Rottner. He explained that he recieved a phonecall from the owners attorney who stated that contamination was from a Dept of Sanitation garage. However, monitoring well on that property was installed and was clean. Spartan will be sending another letter to DDC at which time B. Rottner will forward a copy to me.

3/10/04 Received 1Q04 monitoring report. Need to delineate around MW−6 and MW−2. 6/18/04 Received 2Q2004 monitoring report. 6/30/04 Met with Spartan Petroleum (H. Alpert) and Impact Env. Received hand−delivered letter dated 6/28/04. Site is located on 149th St between Gerard and River Avenues. The site was impacted by a release detected in 1992 while under lease to Mobil Oil. Mobil installed an SVE/AS system. A new release was confirmed and Spartan released Mobil from contractual obligations. As an IRM, EFR was performed on MW−2. Approx 1075gal GW was extracted. An enhanced SVE/AS was run from July 12, 2001 to the present. During the period from 11/9/99 to 3/3/03, there was a steady decline in contaminant concentrations. In May 2003, BTEX concentrations began to increase unexpectedly. A system test was performed and all lines and tanks tested tight. An off−site source was suspected. Identified a NYCDOS truck terminal upgradient. Also found many monitoring wells on the NYSDOS site. Thru a FOIL request, review of the NYSDEC files incidate that the NYCDOS site is impacting 99 E 149th St. Request closure.

10/4/04 Received 3Q04 monitoring report.

11/19/04 Met with K. Kleaka and K. Scroope, Impact Env. NYCDOS property on eastside of Gerard Avenue (DOS Manhattan West 9). See spill #s 9513870, 9910856.

11/23/04 Email from J. Kolleeny− City's consultant, LiRo, had been performing EFR on wells with free product for several years until last year when a multi−phase extraction system went on line. A MW along E 149th St has had product in it which LiRo identified as weathered #2FO. Although they have been willing to vac out this well, and the remedial system now has extraction

wells near it, LiRo has argued that the product in the well was likely coming from off−site because they claimed there was no DOS tanks at that end of their site. However, the PBS list an old 2000gal heating oil tank and a new (4/03) tank at the site. Asked LiRo to locate these tanks. Will keep me updated.

4/13/05 Spoke to K. Kleaka, Impact Env. Will be proposing to shutdown system soon as recovery is decreasing. Still concerned about DOS site having impacts on property. Proposal will include confirmatory soil sampling.

5/6/05 1Q05− GW sample collected on 3/14/05 from MW−8 did not detect any VOCs. Samples from MW−1 and MW−5 detected concentrations of VOCs but not above GWQS. MW−12 was paved over. Several detected concentrations from MW−2,6,7,9,10 & 11 exceeded GWQS. These concentrations are within ROI of system. Told H. Benjamin that it was not necessary to reinstall MW−12.

5/23/05 Sent email to K. Kleaka, Impact Env. After reviewing the July 2004−Sept 2004 and Jan 2005−March 2005 quarterly reports for Manhattan West 9 (operated by NYCDOS at 125 East 149th St, Bronx), it is not clear that the contamination detected at MW−2 is due to impacts from the NYCDOS facility. Historical data for 99 E 149th St shows a significant spike of MTBE at MW−6(869.6ppm) and at MW−2(191.2ppm). The historical data for the NYCDOS facility, dating back to 2000(with some data gaps), does not indicate that the facility is acting as a source of off−site contamination. The only MTBE detection in the NYCDOS wells was in the NW corner of the property(170ppb in 1/00). NYSDOS has been operating a MPE system since 11/12/03.

11/8/05 3Q05 report − Total of 537.84lbs of hydrocarbons removed. Approx 9lbs recovered in last 22 day period. Groundwater concentrations highest in MW−2 at 1420ppb total BTEX and 1500ppb MTBE. MW−6 at 100ppb BTEX and 53ppb MTBE. MW−7 at 10ppb BTEX and 56ppb MTBE.

1/11/06 Met with K. Kleaka and H. Benjamin, Impact. To submit 4Q05 report. Redeveloped sparge points to try and increase efficiency of system which continues to operate.

2/17/06 4Q05 report submitted. SVE continues to operate. Lab analysis from 11/28/05 did not detect VOCs in MW−8. Wells MW−5 and MW−11 had concentrations which did not exceed GWQS. Samples from MW−1,2,6,9,and 10 did exceed GWQS.

3/30/06 1Q06 report submitted. BTEX from ND(MW−1,5,6,8,9,11) to 970ppb(MW−2). MTBE from ND(MW−5,6,8) to 980ppb(MW−2). SVE continues to operate. Total estimated hydrocarbons recovered is 538lbs.

6/30/06 DEC lead transferred from K. Foley to J.A. Maisonave. − JAM

11/27/06 Reviewed 2nd and 3rd Qtr 2006 Monitoring Reports. Groundwater contamination persists in the area of monitoring well MW−2 (~4000ppb). H. Benjamin of Impact Env. proposed performing a pulse test on the system to see if rebound will occur since the system appears to have reached asymptotic conditions. I sent an email to Mr. Benjamin requesting a map showing the radius of influence for each air sparge and SVE point and that GW contamination at MW−2 must be addressed. I also asked if there was soil contamination at the site. If so, has the SVE system effectively treated it? Must prove by confirmatory soil sampling. Email is in the file. − JAM

02/13/07 Reviewed a letter submitted by Impact Env. and dated January 17, 2007. The letter proposes:

1. All monitoring wells will be redeveloped utilizing a surge block and vacuum truck. 2. Monthly Enhanced Fluid Recovery (EFR) events will be performed on MW−2 to reduce the contaminant concentrations in the surrounding area. Said events will be performed

utilizing a 2X4 inch diameter K−Packer on a 2−inch diameter drop pipe to maximize liquid and vapor capture. 3. Groundwater sampling will continue on a quarterly schedule. 4. SVE & Sparge operations will continue with the existing system.

I sent an email approving these proposals. Groundwater sampling data and recommendations will be submitted in the next quarterly report. A hard copy of the email will be in the file. − JAM

3/29/07 Reviewed 4th Qtr 2006 Monitoring Report submitted by Impact Env. and dated March 6, 2007. All wells were sampled on November 29, 2006. Results were non−detect for total VOCs except for MW−2, which shows persistent levels of VOCs (2,675ppb Total VOCs). The SVE/AS system continues to operate at the site. According to the report, monthly EFR events on MW−2 should have begun in February 2007 and results will be included in the next Monitoring Report. − JAM

6/21/07 Reviewed 1st Qtr 2007 Monitoring Report submitted by Impact Env and dated May 30, 2007. On February 28, 2007, all wells were redeveloped and EFR events commenced on MW−2 All wells were then sampled on March 1, 2007. Wells MW−1, MW−6, and MW−9 showed non−detect results for total VOCs. Wells MW−5, MW−7, MW−8, MW−10 and MW−11 had slight exceedences for Napthalene (ranging from 68ppb to 100ppb). MW−2 showed a decrease of total VOCs from last monitoring round to 1,936ppb. The SVE/AS system continues to operate. − JAM

12/04/07 Reviewed 2nd Qtr 2007 Monitoring Report submitted by Impact Env and dated Sept 18, 2007. All wells were sampled on June 14, 2007 and monthly EFR events continue on MW−2. Wells MW−1, MW−2, MW−9, MW−10 and MW−11 showed exceedences for total VOCs. Wells MW−5, MW−6 were not sampled because they were dry. MW−2 still has the highest level of VOCs, however, it showed a decrease from the last monitoring round to 857ppb from 1,936ppb. The SVE/AS system continues to operate. − JAM

Reviewed 3rd Qtr 2007 Monitoring Report submitted by Impact Env and dated Oct 30, 2007. All wells were sampled on Sept 6, 2007 and monthly EFR events continue on MW−2. Results from wells MW−1, MW−2, MW−5, MW−6, MW−7, MW−8 and MW−9 showed non−detect levels for total VOCs. Wells MW−10, MW−11 showed minor exceedences for MTBE (44ppb and 50ppb respectively). Based on the latest result, monthly EFR events appear to have effectively reduced contaminants in MW−2. The SVE/AS system continues to operate. − JAM

4/14/08 Received a call from Hal Benjamin about the Exposure Assessment submitted in March 2008 by Impact Env. They are requesting spill closure and I will get back to him after I review the report. − JAM

5/1/08 Reviewed Exposure Assessment Report. Based on the Exposure Assessment, Impact Env. concludes that the source of contamination has been effectively mitigated and small levels of residual groundwater contamination pose no threat to human health. Impact requests spill closure. I requested a summary of historic soil data associated with this spill. −JAM

6/11/08 Spoke to Hal Benjamin, Impact. An on−site well provides the operating car wash with water. I requested that this well be sampled and results reported in a letter. Spill closure will be reevaluated when results are available. − JAM

8/8/08 Reviewed letter from Spartan dated July 16, 2008. The on−site well that services the carwash was sampled and all analytes were found non−detect. I called Hal and asked the depth at which the car wash well pulls water from and if there are any sampling requirements for that well. He will get back to me. − JAM

11/13/08 Since the on−site car wash supply well did not detect and VOCs and only minor levels of MTBE were detected in two on−site wells, this site poses no threat to human health or the environment. This spill case was closed and an NFA letter was issued to:

Henry Alpert Cross Deegan Realty, Corp. 3333 New Hyde Park Rd, Suite 201 New Hyde Park, NY 11042

NFA letter uploaded to eDocs. − JAM

Map Identification Number 57 **MOBIL** **Spill Number: 8905353** **Close Date: 03/04/2003**
99 EAST 149TH ST BRONX, NY TT−Id: 520A−0007−949

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 475 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: EXXON MOBIL
Spiller Phone:
Notifier Type: Tank Tester
Notifier Name:
Notifier Phone:
Caller Name: ROBERT
Caller Agency: GASOLINE SERVICE MAINT
Caller Phone: (212) 792−4300
DEC Investigator: KMFOLEY
Contact for more spill info:
Contact Person Phone:

Category: Known release which created a fire/explosion hazards (inside or outdoors), drinking water supply contamination, or significant releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/30/1989		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

4K TANK FAILED PETRO−TITE. L R = 1 GAL / 30 MIN.

CLOSED DUE TO LACK OF ANY RECENT INFO − DOES NOT MEET ANY CLEANUP REQUIREMENTS.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was K FOLEY 3/04/2003 − Closed Due To The Nature / Extent Of The Spill Report1/2/03 Reassigned From Sigona To Foley. Investigation Being Performed By Spartan Amoco Under Spill #9909670. Open Mobil #9208906.3/3/04 As Per The Closure Request Report Submitted For Mobil By Gsc, Spill #8905353 Initiated A Subsurface Investigation Conducted From 12/11/89−1/10/90 Which Included Installation Of 5 Mws (Mw−1A Thru Mw−5A). Vocs Were Above Groundwater Standards. This Was Summarized In The February 1990 Roux Subsurface Evaluation Report. Mw−1A Through Mw−5A Were Destroyed (4/90−11/91) Due To Construction Activities Conducted By Amoco. Five 4000Gal Gas Usts, One 550Gal Waste Oil Ust, And One 550Gal Fuel Oil Ust And Piping Were Removed From Site.A Subsurface Investigation Conducted In April 1991 Included Installation Of Two Soil Borings And One Monitoring Well(Mw−6). Results Were Summarized In 6/91 Roux Supplemental Subsurface Investigation Report.A Subsurface Investigation Conducted In November 1991 Included Installation Of 11 Monitoring Wells (Mw−1 Through Mw−5 And Mw−7 Through Mw−12) And One Air Sparge Well (Sp−1). Results Were Summarized In A Gti Report.Spill #9208906 Was Issued To The Site On 11/2/92 As A Result Of Contaminated Soil Observed During Amoco Site Construction Activities.

Map Identification Number 58 **CLOSED−LACKOF RECENT INFO** **Spill Number: 8800476** **Close Date: 03/04/2003**

471 WALTON AVE NEW YORK CITY, NY TT−Id: 520A−0010−616

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1001 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: WIRELESS CABLE NY
Spiller Phone: (212) 665−0426
Notifier Type: Tank Tester
Notifier Name:
Notifier Phone:
Caller Name: WAYNE BARON
Caller Agency: GASOLINE INSTALLATIONS
Caller Phone: (516) 371−2070
DEC Investigator: ADMIN. CLOSED
Contact for more spill info:
Contact Person Phone:

Category: Known release which created a fire/explosion hazards (inside or outdoors), drinking water supply contamination, or significant releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/31/1988		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

3K TANK (OR POSSIBLY 1K TANK) FAILED WITH A LEAK RATE OF −0.5GPH, WILLPUMP OUT TANK, FURTHER ACTION UNKNOWN. CONTACT: CHARLES RAY

(212)−665−0426.

CLOSED DUE TO LACK OF ANY RECENT INFO − DOES NOT MEET ANY CLEANUP REQUIREMENTS.

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

04/14/88: 1K TANK PASSED TEST WITH A LEAK RATE OF +.0210GPH, MEASURED MATERIALIN TANK WHEN PUMPED OUT TO DETERMINE SIZE OF TANK.

Map Identification Number 59 **500 GRAND CONCOURSE** **Spill Number: 9002366** **Close Date: 09/30/1992**

500 GRAND CONCOURSE NEW YORK CITY, NY TT−Id: 520A−0007−980

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1021 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	INSTITUTIONAL, EDUC, GOV, OTHER	Spiller:		Spiller Phone:	
Notifier Type:	Tank Tester	Notifier Name:		Notifier Phone:	
Caller Name:	SEBASTIAN LOREFICE	Caller Agency:	TANK TEST INC	Caller Phone:	(718) 789−3770
DEC Investigator:	BATTISTA	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

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Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
05/31/1990	09/30/1992	TANK TEST FAILURE	2−452319	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

10K TANK (SYSTEM) FAILED HORNER EZY CHECK, VISUAL GROSS LEAK, FUEL

LEAKING THROUGH CONCRETE BASEMENT WALL, TO PUMP TANK, WILL EXCAVATE, ISOLATE & RETEST.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 60 **GERARDO WOODWORKING** **Spill Number: 1509044** **Close Date: 09/01/2016**

168 EAST 144TH STREET BRONX, NY 10451 TT−Id: 520A−0313−107

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1578 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: UNKNOWN

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: GERADO BOHORQUEZ − GERARDO WOODWORKING
Spiller Phone:
Notifier Type: Tank Tester
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: SXMAHAT
Contact for more spill info: GERADO
Contact Person Phone: (718) 401−8584

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/04/2015		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

failed tank test

DEC Investigator Remarks:

12−4−15 − Obligado − DEsk Duty − Called TJ at Heinrech. Left a message to call back the DEC. 550 tank #2 fuel oil UST. Dry leak. The tank is about half full, 240 gallons. It is a simple system, with a remote fill, and a vent pipe. He was unable to determine the casue of the leak. Heinrech was hired by a potential buyer. TTF mail merge list updated. I called Mr. Gerardo Bohorquez. I left a message to call back the spills duty desk.

Spill assigned to Santosh Mahat.

1/14/16 − Austin − I received a call from Ed Townsend (845−249−0958), a consultant representing the owner of this tank. He indicated that this test was done by a prospective buyer of this property. Mr. Townsend wanted to know how to proceed in getting this matter resolved. He had already had a tank−only test done (passed, according to him) and found a problem with the fill line. However, he said that when the fill was dug out for replacement, no soil contamination was encountered. I asked about the tank−to−boiler line (above ground, no leaks) and the vent line (he indicated that that might have had a failurie, as well, but it was replaced, too). I told him to write this all up, include any documentation and photos, and send it to DEC Mahat via e−mail. He indicated he would do so. − end

6/7/16: Mahat T/c : DEC Mahat contacted Ed and request him to send the closure report on the spill case.

8/11/16: Mahat t/c: DEC Mahat talked to Ed and he mentioned that the report will be sent to the Department as soon as he can.

9/1/16: Mahat Spill case is admistratively closed based on the phone conversation RSE had with the contractor on 1/14/16. No paperwork has been submitted to the office as discussed over the phone. Spill case does not warrant any investigation/work on the case. Case closed.

12/20/2016: McPartland Received call to Duty Desk phone from Ed Townsend (845−249−0958). He explained the tank would be abandoned in place and asked if soil samples would need to be taken since it passed a tightness test. I consulted with DEC Piper and told Ed he would not need to take soil samples since the tank was unregulated and it passed a tightness test.

Map Identification Number 61 **COMMERCAIL BUILD** **Spill Number: 0801696** **Close Date: 09/13/2010**
200 EAST 146TH STREET BRONX, NY TT−Id: 520A−0214−655

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1586 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	ROSS SPOSATO − COMMERCAIL BUILD	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	bkfalvey	Contact for more spill info:	ROSS SPOSATO	Contact Person Phone:	(718) 292−0600

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/09/2008		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
	6000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

PBS No: 2−085464 lines in the petromiter failed

DEC Investigator Remarks:

6/18/08 bf: Sent ttf letter to: Ross Sposato Chairmasters, Inc. 200 East 146th St. Bronx, NY 10451

6/30/08 Received letter from Ross Sposato of Chairmasters. Tank tested on 5/9/08 and failed. Tank was excavated and they are in the process of isolating lines. Also received message from him on 6/26/08 stating the same. (718)292−0600 x−205. bf

7/29/08 On 7/14/08, received letter from Ross Sposato of Chairmasters. Advanced Tank retested tank and tank passed. Piping will be replaced. After he receives test results, he will send test results and PBS Application. Called Ross S. (718)292−0600 x−205. Returning his call. Left message that there is no fee for tank test processing. Also, noted that a reply to my letter for tank test failure is required to be prepared by third party and needs to explain contamination and repairs made. bf

8/25/08 Received passing tank test report. on 7/31/08. Reviewed and found it not acceptable because technician did not sign the report. Sent tt return letter to Ross Sposato at address above and included request for tank test failure letter response. bf

9/5/08 Yesterday, received message from Ross of Chairmasters. Info was mailed yesterday. bf

9/13/10 Received call from Ross of Chairmasters. He wanted the status of his tightness test report. I told him I have not received the report nor did I receive a response to the ttf letter. He said that he will fax letter and report to me. bf

9/13/10 This afternoon received fax from ATS that the piping was replaced and there was no spill. Tank tightness test report is still needed to close this case. bf

9/13/10 later this afternoon, received passing tank test report by fax. NFA. bf

9/20/10 Received call from Ross Sposato requesting letter for closure. Faxed amnd mailed it to him. Fax:(718)292−0613. bf

Map Identification Number 62 **APARTMENT** **Spill Number: 0800658** **Close Date: 06/12/2008**
635 MORRIS AVE BRONX, NY TT−Id: 520A−0214−639

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1603 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Tank Tester
Caller Name:
DEC Investigator: bkfalvey

Spiller: JESSE CURLL − APARTMENT
Notifier Name:
Caller Agency:
Contact for more spill info: JESSE CURLL

Spiller Phone:
Notifier Phone:
Caller Phone:
Contact Person Phone: (781) 849−1471 ext. 1
ext: 105

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/16/2008		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
	15000	Unknown	0.00	UNKNOWN
		Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

PBS No: 2−605314 UNCOVER REPAIR AND RETEST: AIR LEAK

DEC Investigator Remarks:

4/29/08 Received letter from Stuart Schwartz, of SNS Energy Distribution Corp., on 4/28/08. Tank was excavated and isolated and retested. Isolation revealed leak was at vent line. No contaminated soil associated with this spill. Tank retested on 4/25/08 and passed. They are waiting for authorization from owner to replace all piping and will retest. bf

5/1/08 bf: sent ttf letter to: Urbanization Maria Lopez Housing 580 White Plains Road, 6th Floor Tarrytown, NY 10591

Sent copy to: Stuart N. Schwartz, Chief Executive officer SNS Energy Corporation 221 Broadway, Suite 205 Amityville, NY 11701

6/4/08 On 6/3/08, received fax of letter dated 5/23/08 from Stuart Schwartz of SNS Energy. All oil distribution piping at the site was replaced even though only the vent line failed. Tightness test was done 5/22/08 and passed. I called Mr. Schwartz (631)691−1700 and left message with secretary to call me back. When he calls back I will request another letter regarding contamination, if any, and the tank test is deficient because of gw determination. bf

6/10/08 On 6/9/08, received revised tank test report. Report is satisfactory. Need letter regarding contamination. Called him at (631)926−2196 and left message requesting letter. bf

6/11/08 Yesterday, received fax from S. Schwartz stating no oil contamination found and piping was replaced due to its age. NFA. bf

Map Identification Number 63 **LINCOLN HOSPITAL TTF** **Spill Number: 1206812** **Close Date: 08/28/2015**

234 EAST 149TH STREET BRONX, NY TT−Id: 520A−0277−924

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1701 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: 234 E 149TH ST
Revised zip code: 10451

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: LINCOLN HOSPITAL
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: HRPATEL
Contact for more spill info: JOHN HEALEY
Contact Person Phone: (718) 579−5680

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/10/2012		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

Tank test fail

DEC Investigator Remarks:

Ricky told me that this is a 'Dry Leak', loose gasket.No oil spill observed. Next step:To call John to confirm gasket has been repaired and tank passed the test.(sr)

11/5/12 Passing and failing ttt reports for Tank 005 put in e−docs. Passing test was processed today. bf

08/28/15−Hiralkumar Patel. while reviewing spill/pbs database for the subject site as part of investigation under spill #: 0204573, found this open spill case.

the subject spill was reported on 10/10/12 as 10,000 gal diesel tank (tank #6) failed a tightness test. as per the caller, a dry leak was noted due to loose gasket and no spill was observed. found a passing test result for tank # 6 dated 11/30/2012 on PBS record.

based on record available on PBS file, case closed.

Map Identification Number 64 **LINCOLN MEDICAL CENTER** **Spill Number: 0313236** **Close Date: 01/06/2006**

234 EAST 149TH ST BRONX, NY TT−Id: 520A−0007−679

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1701 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10451

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Notifier Type: Other
Caller Name: ROBERT BRAGG
DEC Investigator: BKFALVEY

Spiller: EDWARD ZAMNETT − LINCOLN MEDICAL CENTER
Notifier Name: ROBERT BRAGG
Caller Agency: TANKNOLOGY
Contact for more spill info: EDWARD ZAMNETT

Spiller Phone: (718) 579−5683
Notifier Phone: (800) 666−1215
Caller Phone: (800) 666−1215
Contact Person Phone: (718) 579−5683

Category: Investigation indicates there was no spill.
Class: Any Type of RP, Including No RP − DEC Field Response − Corrective Action Not Required or Not Possible

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/02/2004		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	POUNDS	0	POUNDS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
4	50000	VacuTest	0.00	UNKNOWN

Caller Remarks:

tank test failure. they are unable to reach a pressure set type.possible man way gasket leak.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIPPLE 8/18/04 tipple updating////Island tank 718−967−9424
doing work//investigating tank #1///tank #4 failed/////

Spill assigned to James Drumm for SCI 11/7/05 tank was repaired and re−tested. passed. report in file

08/29/06−Vought−Received message from Brian Shaw (212−922−0777) asking whether tanks could be used. Vought returned call and unable to leave message as number left is not correct number for Shaw.

9/26/06 spoke to J. Drumm of CO. Spill was closed 1/06: report reviewed by Reg. 2 staff prior to 1/06. sent NFA letter at request of Edward Zammet of lincoln Medical Center. bf

Map Identification Number 65 **PARKING GARAGE − TTF** **Spill Number: 1215394** **Close Date: 11/24/2015**
751 CONCOURSE VILLAGE WEST BRONX, NY TT−Id: 520A−0286−202

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1736 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: 751 W CONCOURSE VILLAGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: MIKE − ENVIRO COMPANY FOR PROPERTY OWNER − PARK
Spiller Phone:
Notifier Type: Tank Tester
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: TJDEMEO
Contact for more spill info: MIKE − ENVIRO COMPANY FOR PROPERTY OWNER
Contact Person Phone: (516) 242−4981

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/07/2013		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

Failed test. Removal being scheduled for valuted above ground being made.

DEC Investigator Remarks:

3/27/13 AFrischeisen intern TTF letter sent.

11/24/15 TJD File review. Teleconference with Mr. John Lee (Attorney for purchaser). As per Mr. Lee, due diligence conducted prior to this property transfer revealed an open spill file associated with 751 Concourse Village West, Bronx. Upon further investigation the following background information was provided:

By a way of background, from 1950, the subject property had four (4) 550 gallon tanks that was removed in 1960 and consolidated and with one (1) concrete enclosed 4,000 gallon that was also closed in 2007 under DEC No. PBS 2−610694. At the same time all piping and underground infrastructure was also removed from the property. At the present time the only source energy used for A/C and Heat is electric.

The Spill No. 1215394 references a Tank Test Failure associated with a test that was conducted on February 7, 2013 that indicates that an underground tank was tested. However, this information is inaccurate and contradictory since all the underground tank were either removed and/or officially closed by 2007 as recorded by DEC. Therefore, an underground test of a tank would be physically impossible. Subject property has in the past been confused with other property in the area and we strongly believe that the Spill No. 1215394 has been assigned to the subject property in error.

Finally, my clients are conduction a closing tomorrow at Wilshire Bank in Midtown to purchase the subject property and the Spill No. 1215394 has caused Wilshire Bank to escrow $950,000.00 pending the closure of the open Spill No. 1215394. As evidenced by the attached Commitment Letter from Wilshire Bank, the open environmental issue on the property required the escrow of the

$950,000.00.

Based upon the documentation provided and confirmation of same through PBS records − the property address is listed incorrectly on the initial spill report. All provided documentation has been uploaded to DECDOCS. As such, spill file is administratively closed.

Map Identification Number 66 **PREMIER METALS** **Spill Number: 9903367** **Close Date: 05/15/2015**
381 CANAL PLACE BRONX, NY 10451 TT−Id: 520A−0012−092

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1872 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Tank Tester
Caller Name: MATTHEW MATCHETTE
DEC Investigator: VXBREVDO

Spiller: GINA CONSTANTINI − PREMIER METALS
Notifier Name: MATTHEW MATCHETTE
Caller Agency: CROMPCO CORPORATION
Contact for more spill info: GINA CONSTANTINI

Spiller Phone: (516) 249−3150
Notifier Phone: (610) 278−7203
Caller Phone: (610) 278−7203
Contact Person Phone: (516) 249−3150

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/23/1999		TANK TEST FAILURE	NO	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
	2000	USTest 2000/P/LL plus USTest 2000/U	0.00	UNKNOWN

Caller Remarks:

tank contained #2 oil − gross fail

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was SAWYER 9/08/03 1541 Hrs Sawyer forwarded pbs report to Sigona for inspection. The pbs registation is overdue.

9/17/03 Rossan performed PBS inspection and found them removing tank for closure which opened another spill because of the contamination.

9/23/03 − Sawyer − Sent contaminated soil letter to 381 Canal Place Management.

2/11/04 1030 Hrs − Sawyer − Sent contaminated soil letter to Pride Funiture, Attention: Joseph Muller.

6/24/05 − Spill Lead_DEC Field changed to Grathwol .

After repeated efforts by M. Haggerty to contact owner (received no cooperation) and 30−day Department letter requesting information was ignored, J. Grathwol visited the site on 2/16/06. Talked with employees of Pride Furniture. They stated they had no knowledge of the spill. Asked me to call back and discuss with owner. Called several times with no success, Pride Furniture staff stated the owner would call me directly, but it did not happen. Pride Furniture is heated by salamanders , torpedo−shaped heaters − no oil heat. Spill #8709462 is 3 tank failures with gross leaks and was closed because of the multiple spills at the same address. Pride Furniture phone number: 718−585−1400. Recommend this project as potential PIN project. {Grathwol}

9/11/06 assigned to bf

9/11/06 sent ttf old spill letter. bf

Undated notes from telephone conference with Schretzmayer in the hard file, entered here 4/22/10: J. Urda case 4/30/09 report − no delineation done yet, wants site visit Phase II investigation Sept. '03 not in file (e−docs). Proposal is to delineate soil and groundwater determination. Will plan be approved by DEC? J. Schretzmayer wants site visit for boring locations. Last page − will send investigation report.

−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−

9/23/03 cont. soil letter sent ttf

001 & 002 closed removed 10/18/03 (not processed) 003 closed in placed 9/17/03

send cont soil letter?

+++++++++++++++++++++

NOTE: Report referred to above is not in the file. bf

8/7/12 bf: On 8/2/12 received call from Stephanie Davis of FPM Group (631)737−6200 ext.228. She is preparing a proposal for either investigation or remediation. She called back on8/6/12. She wanted to know where this case is as far as investigation and remediation. I told her that I needed to review the file and called her back on 8/7/12. Very little documentation found in e−docs. Found reports dated 10/1/03 (soil sampling), 12/3/03 (tank closure), and 4/30/09 (work plan) in OGC file. Ms. Davis requested copies of any reports regarding the ivestigation. Documents were e−mailed to her today . She sent the following

e−mail: Brian ˇ As per our discussion, please provide a copy of the available technical reports for the above−referenced spill such that we may develop an appropriate scope of work for further investigation and/or remediation, as needed. If you have any questions, please contact me via email or the phone number below. Thanks again for your help in this matter.

Stephanie O. Davis, CPG

Hydrogeology Department Manager

FPM Group

909 Marconi Avenue

Ronkonkoma, NY 11779

(631) 737−6200, ext. 228

Fax (631) 737−2410

−−−−−−−−−−−−−−−−−−−−−−−−−−−end−−−−−−−−−−−−−−−−−−−−−−−−−

1/24/13 On 11/26/12, received sub−surface investigation work plan. bf

1/28/13 OGC sent letter to James Rigano, attorney, requesting an approvable work plan and notification for the continuing violation of a Commissioner's Order. Work plan is due in 45 days. bf

2/1/13 Yesterday, received updated work plan dated January 30, 2013. Sent approval of the plan to Stephanie Davis, consultant. bf

07/16/13 − Spill Case is transferred from Brian Falvey (PBS Unit) to V. Brevdo (Section B) as per DER Region 2 decision − Tank Test Failure Spill Case. VB

11/12/2013 − V. Brevdo Called Stephanie Davis of FPM Group, left voice mail inquring about the status of the project. V.B.

11/12/2013 − V. Brevdo Received call from Stephanie Davis of FPM Group. FPM implemented investigation work plan dated January 30, 2013 and previously approved by the Department (PBS Unit − Brian Falvey). FPM also submitted May 23, 2013 Subsurface Investigation Report, Tank Compliance, and Remedial Action Work Plan. Stephanie Davis e−mailed May 23, 2013 report via e−mail (previosuly was submitted to PBS Unit), which needs Department's review and approval. VB

11/13/2013 − V. Brevdo

Current Status of the Project:

Industrial / Commercial Building at 381 Canal Place, Bronx (Spill No. 9903367) (a.k.a. Gladiator Realty Corp. and Canal Management Corp.) This property is investigated and remediated under the January 14, 2010 Commissioner´s Order in Matter of

Gladiator Realty Corp. and Canal Management Corp. The Order requires, among other things, that Gladiator Realty Corp. investigate and remediate petroleum contamination at the site, and correct violations of State´s PBS regulations. Historically the building on the site was used as a factory and warehouse. At present the building has several tenants, including a woodworking operation, a market and a warehouse. FPM Group has performed a subsurface investigation at the property in accordance with the Department−approved Subsurface Investigation Work Plan dated January 30, 2013. The investigation was conducted on March 19 to March 21, 2013. Although the investigation results indicated the presence of visibly impacted soil in proximity to the closed in−place USTs from between approximately 5 and 15 feet below the building floor, the soil sampling data demonstrated no exceedances of the Department−recommended soil cleanup objectives. The groundwater sampling indicated presence of VOCs and SVOCs at concentrations lower than NY State drinking water standards. FPM Group has proposed removal of free product on a monthly basis using bailers and/or absorbent materials until no product is detectable or until the thickness of product is reduced to a feasible minimum. A compliance issue associated with the closed tanks was also assessed during the course of this work. Subsurface Investigation Report, Tank Compliance, and Remedial Action Plan document dated May 23, 2013 was submitted to the Department for review and approval. On November 13, 2013 the Department has provided FPM group with comments on the May 23, 2013 document, requested submission of the detailed RAWP, including schedule of proposed remedial activities and Health and Safety Plan. FPM advised the Department they will submit a detailed RAWP that addresses Department´s comments.

VB

11/26/2013 − V. Brevdo

e−mail from the Department to FPM, consultant for RP.

November 26, 2013

Dear Ms. Davis:

Could you please give me and estimated date when you think FPM will submit the detailed RAWP and address my November 13, 2013 comments on May 23, 2013 Investigation Report?

Happy Thanksgiving to you.

Vadim Brevdo

12/11/2013 − V. Brevdo Called Stephanie Davis of FPM group − left voice mail inquiring on the status of submission of the detailed RAWP for the project. V.B.

01/23/2014 − FPM submitted RAWP. VB

01/23/2014 − Completed reviw of January 23, 2014 RAWP. Sent e−mail to FPM containing questions and/or comments on RAWP.

Current project status:

Industrial / Commercial Building at 381 Canal Place, Bronx (Spill No. 9903367) (a.k.a. Gladiator Realty Corp. and Canal Management Corp.) This property is investigated and remediated under the January 14, 2010 Commissioner´s Order in Matter of

Gladiator Realty Corp. and Canal Management Corp. The Order requires, among other things, that Gladiator Realty Corp. investigate and remediate petroleum contamination at the site, and correct violations of State´s PBS regulations. Historically, the building on the site was used as a factory and warehouse. At present the building has several tenants, including a woodworking operation, a market and a warehouse. FPM Group has performed a subsurface investigation at the property in accordance with the Department−approved Subsurface Investigation Work Plan dated January 30, 2013. The investigation was conducted on March 19 to March 21, 2013. Although the investigation results indicated the presence of visibly impacted soil in proximity to the closed in−place USTs from between approximately 5 and 15 feet below the building floor, the soil sampling data demonstrated no exceedances of the Department−recommended soil cleanup objectives. The groundwater sampling indicated presence of VOCs and SVOCs at concentrations lower than NY State drinking water standards. FPM Group has proposed removal of free product on a monthly basis using bailers and/or absorbent materials until no product is detectable or until the thickness of product is reduced to a feasible minimum. A compliance issue associated with the closed tanks was also assessed during the course of this work. Subsurface Investigation Report, Tank Compliance, and Remedial Action Plan document dated May 23, 2013 was submitted to the Department for review and approval. On November 13, 2013 the Department has provided FPM group with comments on the May 23, 2013 document, requested submission of the detailed RAWP, including schedule of proposed remedial activities and Health and Safety Plan. FPM submitted a detailed RAWP on January 23, 2014. The proposed remedial action includes removal and proper disposal of free−phase petroleum product identified in three monitoring wells in proximity to the closed in−place USTs and associated fill port. Product monitoring, removal and disposal activities will be conducted under a site−specific Health and Safety Plan, which includes procedures to ensure the safety of remedial personnel, on−site workers, and the nearby community. Two months pilot test is proposed to ascertain the effectiveness of the proposed remediation. The Department reviewed RAWP on January 23, 2014 and requested several clarifications/revisions to the document. Clarifications/revisions are pertinent to verification of no residual free product remaining in closed−in−place tanks and description of the remedial goal. VB

02/05/2014 − V. Brevdo Recevied Revised RAWP from FPM dated February 5, 2014. All the Department's January 23, 2014 comments (sent via e−mail) are addressed satisfactorily to the Department in the revised RAWP. Revised RAWP can be approved, but approval will be contingent on the successful completion of the pilot test and demonstration that the proposed remediation has reasonalbe expectation to be effective as a full−scale long term remedial approach. V.B.

02/05/2014 − V. Brevdo Reviewed Revised RAWP and issued approval letter. VB

04/15/2014 − V. Brevdo e−mail from FPM:

Vadim,

Please find attached the results for the product monitoring pilot test we conducted for the above−referenced site in March 2014. In general, we found that product levels decreased over the testing period and recommend that monthly monitoring be continued. Please feel free to contact me with any questions.

Ben

Ben T. Cancemi, CPG Senior Hydrogeologist Department Manager

FPM group 909 Marconi Avenue Ronkonkoma, NY 11779 (631) 737−6200, ext. 209

04/16/2014 − V. Brevdo e−mail to FPM

April 16, 2014

Dear Mr. Cancemi:

I reviewed Product Monitoring Pilot Test Report prepared by FPM, dated April 15, 2014.

I have the following questions pertinent to the report:

1) According to the approved Remedial Action Work Plan (dated February 5, 2014), the expected duration of the pilot test is two months. Given the pilot test commencement appears to be March 6, 2014, the pilot test should be completed by around May 6, 2014. Do you expect to complete pilot test by May 6, 2014? If not, when is the expected remedial pilot test completion date?

2) According to the schedule in the RAWP, A Pilot Test Report is supposed to be submitted to the Department upon completion of the pilot test. It is my understanding that the pilot test has not yet been completed and April 15, 2014 report is not submitted as a final pilot test report or in leau of final pilot test report. Final pilot test report is yet to be submitted. If my understanding is incorrect, please let me know.

3) The Department's February 5, 2014 RAWP approval letter states the following:

Please note that this approval of the Remedial Action Work Plan is contingent on the successful completion of the pilot test and demonstration that the proposed remediation has reasonable expectation to be effective as a full scale / long term remedial approach.

Review of the Table 1 Product monitoring data reveals that the amount of product recovered from well MW−1 during the March 2014 is 480 milliliters which is equal to 0.13 gallons.

Total volume of product removed from all wells is 770 milliliters or 0.2 gallons. To me this appears as a very small volume. Have FPM evaluated a total volume of free product present in the subsurface at the site? Have FPM concluded whether this product removal rate is effective and whether this removal rate will ensure product removal completion within a reasonable time frame?

Thank you,

Vadim Brevdo

07/28/2014 − V. Brevdo FPM Group submitted product monitoring report dated July 28, 2014. VB

11/03/2014 − V. Brevdo FPM submitted Product Monitoring Third Quarter Report dated November 3, 2014. VB

03/03/2015 − V. Brevdo FPM submitted Product Monitoring Third Quarter Report dated March 2, 2015. FPM continues monitoring and product removal activities, and submitted Product Monitoring and Removal Report for the fourth quarter of 2014 on March 3, 2015. Over the course of monthly monitoring/removal events from July 2014 throughout December 2014, the thickness of product and removed product volumes in wells situated in the proximity to the closed in−place USTs continued to decrease. One of three

recovery wells no longer contains free product. FPM will continue to perform the product monitoring and removal activities on a monthly basis. VB

03−24−2015 − V. Brevdo Ms. Mishelle Gambetta called and represented herself as doing research on the property at 388 Canal Place which they want to buy. Ms. Gandetta inquired about the contamiantion at 381 Canal Place. I (Vadim Brevdo) explained that 381 Canal Place has open petroleum spill case with NYSDEC, and the Department is overseeing the investigation and cleanup of 381 Canal Place. Remediation is currently in progress. With regard to detailed questions about the contamination I suggested that Ms. Gandetta can apply for the project files review under the Freedom of Information Law. I provided for the phone number and fax number to apply for FOIL. V. Brevdo

05−15−2015 − V. Brevdo Spill Case Closure Decision Industrial / Commercial Building at 381 Canal Place, Bronx (Spill No. 9903367) (a.k.a. Gladiator Realty Corp. and Canal Management Corp.) This property is investigated and remediated under the January 14, 2010 Commissioner´s Order in Matter of Gladiator Realty Corp. and Canal Management Corp. The Order requires that Gladiator Realty Corp. investigate and remediate petroleum contamination at the site, and correct violations of State´s PBS regulations. Historically, the building on the site was used as a factory and warehouse. At present the building has several tenants, including a woodworking operation, a market and a warehouse. FPM Group has performed a subsurface investigation at the property in accordance with the Department−approved Subsurface Investigation Work Plan dated January 30, 2013. The investigation was conducted from March 19 to March 21, 2013. The soil sampling data demonstrated no exceedances of the Department−recommended soil cleanup objectives. The groundwater sampling indicated presence of VOCs and SVOCs at concentrations lower than NY State drinking water standards. FPM Group has proposed removal of free product on a monthly basis using bailers and/or absorbent materials until no product is detectable or until the thickness of product is reduced to a feasible minimum. A compliance issue associated with the closed tanks was also assessed during the course of this work. FPM submitted a detailed RAWP on January 23, 2014 which the Department approved on February 5, 2014. The proposed remedial action included removal and proper disposal of free−phase petroleum product identified in three monitoring wells in proximity to the closed in−place USTs and associated fill port. Two months pilot test was proposed to ascertain the effectiveness of the proposed remediation. On April 16, 2014, FPM submitted the Remedial Pilot Test Report following a series of pilot test product monitoring and removal events implemented throughout March 2014. FPM determined that the product thickness decreased over the testing period and recommended that monthly product monitoring and removal activities continue. The Department approved FPM´s recommendation. FPM continued monitoring and product removal activities throughout 2014 and winter/spring 2015. On May 14, 2015, FPM submitted Product Monitoring and Removal Report for the first quarter of 2015, including Spill Case Closure Petition. Based on review of the free product monitoring and removal data, FPM has reached the following conclusions: Free−phase product is contained onsite to the proximity of the closed−in−place USTs and associated fill port. The product is confined to the property and is not migrating.
Groundwater and soil have been sampled in the product area and downgradient and no exceedances of recommended cleanup values have been detected. Free product has been observed in two wells but has not been observed in four other wells, two of which are downgradient of the product area. Product thickness and removed product volumes declined early in the monitoring and removal process and have remained low ˘ 0.1 foot or less ˘ since that time. FPM concluded that product has been removed to the extent feasible. The completed remediation is protective of human health and the environment for the contemplated use of the site as a commercial warehouse, woodworking operations and market. The Department agreed with FPM that the spill case can be closed at this time. Spill Case is closed effective May 18, 2015. VB

Map Identification Number 67 **381 CANAL PLACE** **Spill Number: 8709462** **Close Date: 03/21/1995**
381 CANAL PLACE BRONX, NY 10451 TT−Id: 520A−0012−091

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1872 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: PPA INDUSTRIES
Spiller Phone: (212) 993−9200
Notifier Type: Tank Tester
Notifier Name:
Notifier Phone:
Caller Name: WAYNE COLLHIN
Caller Agency: COLBERT TANK
Caller Phone: (718) 979−6800
DEC Investigator: BATTISTA
Contact for more spill info:
Contact Person Phone:

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
02/02/1988	09/30/1992	TANK TEST FAILURE	2−342017	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	−1.00	GALLONS	0.00	GALLONS	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

3 TANKS TANK 1−−2K & GROSS LEAK TANK 2−−2K,LEAK RATE = −.271GPH TANK 3−−5K, LEAK RATE = −1.424GPH 8/11/88 : 5K TANK FAILED RETEST, L R=−0.061 GPH.

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

/ / : RESP. PARTY WILL PUMP OUT, EXCAVATE AND RETEST.

04/01/88: REPAIRS WERE MADE −04/01/88 THE TANK −2,000 GALLON PASSED PETROTITE AT RATE OF −0.032 GPH.

03/21/95: SPILL CLOSED ON MIKE MULQUEEN'S RECOMMENDATION. INACTIVE STATUS SINCE 9/20/92 CHANGED TO 3/21/95 BY SMM.

Map Identification Number 68 **146TH ST & LENOX AVE** **Spill Number: 9106264** **Close Date: 12/27/2000**
721 LENOX AVE MANHATTAN, NY TT−Id: 520A−0100−726

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2402 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10039

Source of Spill: NON−MAJOR FACILITY (>1100 GAL) Spiller: NYCTA Spiller Phone:
Notifier Type: Tank Tester Notifier Name: Notifier Phone:
Caller Name: STEPHEN MCGUIRE Caller Agency: TANK TECH CORP Caller Phone: (800) 966−8265
DEC Investigator: MCTIBBE Contact for more spill info: Contact Person Phone:

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/10/1991		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	−1.00	GALLONS	0.00	GALLONS	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

TWO 5000 GAL TANKS MANIFOLDED. PETROTITE −.280GPH. ISOLATING & INVESTIGATING PIPING.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE 11/18/94: REASSIGNED FROM SIGONA TO ZHITOMIRSKY ON

11/18/94. DEC SIGONA REASSIGNED TO KEVIN HALE ON 1/23/98 transfered from Hale to Tibbe on 12/27/00. refer to 89−02374. remediation ongoing.

Map Identification Number 69 **MOTHER CLARA HALE (146TH ST) DEPOT −NYCT** **Spill Number: 8904241** **Close Date: 06/30/2005**
721 LENOX AVE MANHATTAN, NY TT−Id: 520A−0100−745

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2402 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10039

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: TRANSIT AUTH BUS GARAGE
Spiller Phone:
Notifier Type: Tank Tester
Notifier Name:
Notifier Phone:
Caller Name: SEBASTIAN LOREFICE
Caller Agency: TANK TESTING INC
Caller Phone: (718) 789−3770
DEC Investigator: MCTIBBE
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/28/1989		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

8K TANK FAILED HORNER EZY CHECK WITH A GROSS LEAK, WILL EMPTY TANK & INTERNALLY INSPECT.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE 11/15/94: REASSIGNED FROM SIGONA TO ZHITOMIRSKY ON 11/15/94.

transfered from Hale to Tibbe on 12/27/00. tanks replace/repaired/upgraded. investigation pending. See also 89−02374, 91−06264, 93−04003, 96−06076, 98−13017 & 01−02743.

Refer to 8902374.

Map Identification Number 70 **MOTHER CLARA HALE (146TH ST) DEPOT −NYCT** **Spill Number: 8902374** **Close Date: 10/04/2017**
721 LENOX AVE MANHATTAN, NY 10039 TT−Id: 520A−0100−730

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2402 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL Spiller: NYCTA Spiller Phone:
Notifier Type: Responsible Party Notifier Name: Notifier Phone:
Caller Name: JOE PRESSER Caller Agency: NYCTA Caller Phone: (718) 330−4891
DEC Investigator: RVKETANI Contact for more spill info: Contact Person Phone:

Category: Known release which created a fire/explosion hazards (inside or outdoors), drinking water supply contamination, or significant releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/07/1989		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	−1.00	GALLONS	−1.00	GALLONS	SOIL, GROUNDWATER
DIESEL	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	GROUNDWATER
HYDRAULIC OIL	PETROLEUM	−1.00	GALLONS	−1.00	GALLONS	SOIL, GROUNDWATER
WASTE OIL/USED OIL	PETROLEUM	−1.00	GALLONS	−1.00	GALLONS	SOIL, GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

FOUR 5K TANKS LEAKING INTO VAULT. GROUNDWATER DISCOVERED IN VAULT.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE transfered from Hale to Tibbe on 12/27/00. see also 89−02952,89−04241, 91−06264, 93−04003, 96−06076, 01−02743. tanks repaired/replaced/upgraded. remediation ongoing.

See also 98−13017 for waste oil plume.

12/19/07: Since the depot is slated to be demolished, NYCT has decided to remove as much of the contaminated soil and LNAPL as physically possible. They submitted an SSRP/RD for excavation, which was approved. At the time of the remediation, Spill #s 05−13028, 07−03983 & 06−10604 will be investigated and if necessary remediated.

06−17−08: Spill #s 9813017, 0513028, 0610604 & 0703983 have been closed and consolidated under this number because all of the spills will be remediated at the same time.

11/12/10 − spill re−assigned from Tibbe to Joe O'Connell

5/19/2011 The spill was reassigned from Joe O'Connell to Linda Ross

2/27/12 − Raphael Ketani. Site was transferred to me during February 2012.

4/26/12 − Raphael Ketani. The DEC was informed during the monthly meeting that depot construction is still taking place.

5/28/13 − Raphael Ketani. I reviewed the March 2013 Monthly Status Report for all of the subject NYCT bus depot sites. More wells were destroyed as a result of the ongoing construction. Only two wells are left. These are at the east end of the property.

5/29/13 − Raphael Ketani. Gregory Mathelier (212) 252−3470/cell (646) 765−0336, Construction Administrator for the NYCT bus depot sites, sent me the May 2013 Engineering Report for Site Remediation Through In−situ Solidification/Stabilization of the oil contaminated soil (prepared by URS).

Mr. Mathelier stated in the text of his e−mail that:

The subject Final Engineering Report (FER) prepared by our consultant (URS) for the In−situ Solidification/Stabilization (ISS) performed at the Mother Clara Hale Bus Depot is attached. This report presents a background of remedial investigations performed at the site, the bench scale study conducted prior to the ISS and documents the pilot tests and full scale open−pit mixing for ISS performed within the footprint of the site. The goal of the ISS Program was to solidify contaminated petroleum−impacted soil within the footprint of the site as a means of remediation; this method was approved by the NYSDEC. The ISS program was implemented by Hayward Baker, a subcontractor to NYCT´s Remediation Contractor, Franklin, through a bench scale study, a pilot study and a full−scale treatment (ISS) that covered delineated areas of petroleum−impact within the footprint of the site. The results of the bench scale study confirmed the effectiveness of the ISS for the established criteria for unconfined compressive strength, permeability and reduced leaching potential.

I reviewed the report.

5/31/13 − Raphael Ketani. I finished reviewing the ISS report. The Site Specific Remedial Plan was approved during July 2009. The remedial method specified is in−situ solidification/stabilization (ISS). Franklin Company Contractors substantially completed the work by October 4, 2010. The report was prepared in compliance with Subparagraph III.E.4.i of the Consent Order. From 1993 to 2010, numerous investigations were performed. Various product recycling methods were used with limited success. The old building was demolished, but long sections of the 9 foot high retaining walls were left in place. Subsurface structures were also present within the old footprint.

DEC agreed to using solidification/stabilization if it could be demonstrated that unconfined compressive strength equal to or greater than 50 psi, permeability of equal to or less than 1 X 10−6 cm/sec and reduced leaching potential towards achieveing groundwater standards could be achieved. First, bench scale tests were done. Two design mixes were successful − one for diesel oil areas, and one for waste oil and hydraulic fluid areas. They used a 3:1 ratio dry mix of slag and Portland cement. A 6% mix with soil was used for the waste oil and hydraulic lift areas. An 8.5% mix with soil was used for the diesel oil areas.

Hayward Baker Inc. performed the solidification/stabilization work. The work started on 2/3/10 and finished on 10/7/10. The work took place with maximum volume 100 cu. yd. cells and each cell had to be completed the same day. The treatments were in 6’ x 20’ cells aligned perpendicular to the walls. Interior cells were 10’ x 25’. A minimum period of 7 days was required between treatment in a given cell and treatment of an adjacent cell. The work was done by removing the surficial structures, removing the overburden and structures on a cell by cell basis, pre−clearing the treatment zone on a cell by cell basis via excavation and structure removal, and finally the application and mixing of the ISS mix. The soil was mixed in an open pit with a mixing head. The soil was mixed with grout consisting of type I/II Portland cement, granular blast furnace slag and water. The pit was mixed from bottom to top of each cell. There were 19 subareas of mixing.

The DEC required sampling of the grout to insure that the results were unifiorm and compliant. Tests were done regarding permeability and 56 day breaks for data regarding the curing. Four wet samples were obtained from each cell − 2 from the bottom and 2 from the top. The samples were formed into 3 in. by 6 in. cylinders for strength testing via ASTM D2166. Cylinders were formed 3 in. by 3 in. for permeability testing via ASTM D5084. Other cylinders were formed 2 in. by 4 in. for leachability testing via method ANS/NSI 16.1. Slump tests were performed by Franklin staff for bottom samples only.

Pilot tests were done by Hayward Baker on 11 cells in diesel oil area H on 3/18/10, but it rained heavily during the tests and the cells ended up with 2 feet of water at the top. New pilot tests were performed on 3/19/10 in waste oil area A and a second test and a third test were performed in diesel oil area D on 3/19/10 and 3/22/10, respectively. The fourth pilot test was performed in hydraulic lift area P.

Full scale work started with a rich mix as a contingency against excessive water. The full scale mixing started on 3/22/10. A retaining wall was found in front of the west wall. This required a change from the open pit mixing method. The new method involved the installation of 2 rows of grout columns (secant piles). Each column was 36 inches in diameter and 16 feet deep. There were 33 columns per row. Also, holes were drilled through the toe of the retaining wall and grout was injected beneath the wall and between the columns and foundation wall. Seventy six 6 inch diameter holes were drilled. The grout columns were installed from 8/11/10 to 8/17/10. Later, from 8/19/10 to 9/7/10, another 66 columns were installed − most of which were 26 inches in diameter as the larger diameter cutting head had broken. The open pit mixing east of the columns was completed on 9/13/10 and grouting in the toe holes was completed on 9/28/10.

Only 2 of the 1,000 grout samples did not meet the 50 psi compressive strength criteria. However, the 28 day break samples were

satifactory. So no action was required. Thirteen of the 1,000 grout samples did not meet the permeability criteria. URS staff expected that they would meet the criteria as they would cure. So no action was warranted. The leachability results were given to the DEC, but not included in the report. All of the samples were deemed to have met the reduced leaching potential such that the goal of meeting the groundwater standards was achieved, if practicable.

About 26,500 cu. yds. of soil was treated through ISS. An additional 100 cu. yds. was treated using low pressure grouting. Areas were backfilled with treated soil and 6,100 tons of recycled concrete aggregate to the level of the pre−remediation grades.

Scope variance: due to the groundwater rise as a result of the heavy rain, clean soil layers nearer to the surface were contaminated. An agreement was reached between the DEC and the NYCT to raise the vertical limit for soil treatment. Due to staining along the southern wall of the excavation, a 21’ x 23’ x 12’ area south of areas O and P was treated. About 7,300 tons of unimpacted structures and debris were disposed of off site. Additionally, 6,100 tons of fill were imported to bring the site up to grade. A larger than anticipated quantity of overburden soil was treated − 4,575 cu. yds. In order to address the variances, the contract was extended to 10/18/10.

I found the report to be acceptable and approved it without comment.

1/28/15 − Raphael Ketani. I reviewed the January 5, 2015 Site Specific Investigation Work Plan for the Confirmatory Soil and Groundwater Investigation. The investigation is being implemented in order to verify current contamination conditions beneath the sidewalks on the north and east sides of the building and in order to gather information to develope alternative recommendations, if warranted, to address any residual contamination. Fifteen (15)borings will be installed using the direct push method. Up to 4 will be groundwater probes. These will be performed where there is no soil contamination in order to be able to sample just dissolved analytes in the groundwater. Up to 3 borings will become wells. Groundwater is 8 to 10 feet bgs. Soil and groundwater samples will be collected and will be processed via methods 8260 and 8270. The soil samples will be taken with 4 foot macrocores. The borings will end at 20 feet bgs. If contamination is found, then the borings will continue until clean material is encountered. The wells will be screened from 5 to 17 feet below grade. The wells will be sampled one week after development. Purging and sampling will use a low flow method. One composite soil sample from the waste material drums will be collected and sent off to the lab for waste characterization.

I found the SSIWP to be acceptable with one comment. The waiting time between well development and sampling of one week was too short. By general environmental practice, well sampling should not take place any sooner than one month after development. Preferably, sampling should take place at least 3 months after development.

I drafted a letter stating that the DEC was approving the SSIWP, but that well sampling must not take place any sooner than one month after well development. The letter was submitted to Hassan Hussein, EE III and head of Unit C, for his review and approval.

2/5/14 − Raphael Ketani. Mr. Hussein approved the letter and it was sent out today.

9/29/15 − Raphael Ketani. There have been repeated attempts by the NYCT to gain access to well MW−30R in order to conduct groundwater monitoring. However, these attempts had all failed as the superintendent of the building had continuously refused to grant access to the well which is behind a locked fence. Yesterday, Ms. Cadecia Josephs, assistant to Gregory Mathelier, sent me an email with the names of two people in the NYCHA who may be able to provide access to this locked location. These people were Brian Honan (brian.honan@nycha.nyc.gov) and Keith Mitchell (keith.mitchell@nycha.nyc.gov). Today, I sent an email to Mr. Honan and Mr. Mitchell requesting their help with the situation.

11/16/15 − Raphael Ketani. As I had not received an email from Mr. Honan or Mr. Mitchell regarding providing access to well MW−30R, I sent another email to them requesting their assistance. I included Mr. Mathelier [(212) 252−3470/cell (646) 765−0336, Construction Administrator] as a c−c.

Soon afterwards, Mr. Honan sent me an email asking when the NYCT would need to gain access to MW−30R. I responded that he should coordinate access with Mr. Mathelier of the MTA−NYCT.

Mr. Honan is the Director of the Office of Intergovernmental Relations (212) 306−8108. Mr. Honan added Luis Ponce and Brian Clarke to the email he had sent when responding to me.

Later, Mr. Ponce sent me an email stating that he will contact Mr. Mathelier in order to resolve the matter.

4/20/16 − Raphael Ketani. Ms. Cadecia Josephs, assistant to Mr. Mathelier, sent me an email containing the following work schedule:

Below is our proposed initial schedule for the Mother Clara Hale Supplemental Investigation:

Monday, May 2, 2016 Geophysical survey. Initiate sidewalk saw−cutting and guzzler pre−clearing activities.

Tuesday, May 3, 2016 and Wednesday, May 4, 2016 Continue sidewalk saw−cutting and guzzler pre−clearing activities.

Thursday, May 5, 2016 through Tuesday, May 10, 2016 Soil boring and groundwater probe installation activities.

Wednesday, May 11, 2016 through Monday, May 16, 2016 Soil boring and groundwater monitoring well installation activities.

Tuesday, May 17, 2016 through Tuesday, May 24, 2016 Sidewalk flag repair

Tuesday, May 31, 2016 Well development and survey of sample locations.

Thursday, June 30, 2016 Groundwater sampling of newly−installed monitoring wells.

Please note that these dates may change based on the findings of the investigation and/or any input from the Depot AGM during our site meeting next week.

AARCO is currently coordinating for NYCDOT permits, which will take some time and is driving the start date 2 weeks from now.

9/28/17 − Raphael Ketani. Today, at a general remedial progress meeting for NYCT bus depots and related properties, Mr. Mathelier gave me the NYCT September 2017 Confirmatory Soil and Groundwater Investigation/Petition for Spill Closure Report for the site that was written by staff from Dvirka & Bartilucci Engineers and Architects. I gave the report today's date as the date of publication as none was indicated.

10/2/17 − Raphael Ketani. I began my review of the Confirmatory Soil and Groundwater Investigation/Petition for Spill Closure Report.

10/3/17 − Raphael Ketani. I finished my review of the Confirmatory Soil and Groundwater Investigation/Petition for Spill Closure Report. The Mother Clara Hale depot had 3 known types of subsurface petroleum impacts: diesel fuel, waste oil and hydraulic oil. An estimated 44,354 gallons of total liquid was released from leaking USTs, their associated piping and the oil/water separator system. A total of 7016 gallons of product was recovered, but only during the early years of the remediation process. Only wells MW−13R and MW−30R remained after the new depot building had been constructed. Petroleum impacts were identified at 3 to 16 feet below grade. The majority of the impacts were within the zone of groundwater fluctuation which was at 8 to 10 feet below grade. Up to 3.6 feet of product had been measured in one well (MW−12) in the southeast corner of the site. No free product was found in the hydraulic lift areas. On site impacts were addressed through In Situ Soil Stabilization (ISS).

The intent of ISS was to immobilize the residual soil contamination. Before ISS could be performed, all subsurface structures were removed (i.e. foundations) and clean soil. Contaminated soil was mixed with water, cement and ground furnace slag. ISS was initiated during February 2010. Off site impacts found at MW−10R, MW−11R and MW−12 were addressed as a separate remedial activity. URS (previous consulting company) did an off site delineation investigation during February 2010. It consisted of conducting 15 soil borings within the sidewalk and street to the north and east of the depot.

Free product was found at borings B−84, B−85 and B−86. These locations were identified as the former area of the remote diesel fills. Samples from B−77, B−78, B−84 and M−86 had soil VOC exceedances above the clean up criteria. Samples from B−87 and B−90 exceeded the SVOC cleanup criteria. Though the draft Shallow Excavation and Surfactant Flushing SSRP/RD dated September 2010 was written by URS, it could not be implemented as the new depot construction was taking place. Dvirka & Bartilucci (D&B; the current consulting company) wrote an SSIWP for conducting confirmatory borings and a groundwater investigation in order to verify the current conditions in these areas. The SSIWP was approved by the NYS DEC on 2/5/15. The program was implemented by D&B from May 9th to the 26th of 2016. A total of 24 borings, 4 groundwater probes (MCSB−04, 09, 13 and 18 and later renamed MWGP−01 to MWGP−04), 4 wells and soil and groundwater sampling were conducted along the northeast sidewalk and around the southeast corner. The total depths of the borings varied from 20 to 25 feet below grade. Both the soil samples and the groundwater samples were analyzed for VOCs and SVOCs. The screens for the groundwater probes and wells were installed from 5 to 20 feet below grade. The wells were sampled on 7/13/16. The free product program took place based on the results of this investigation.

The enhanced petroleum monitoring and recovery program took place from May 2016 to June 2017 and consisted mostly of VEFRing from May 2016 to May 2017. It was implemented due to the appearance of free product at MCMW−02 and MCMW−03.

Forty seven soil samples and 9 groundwater samples were collected from 5/6/16 to 7/13/16 as part of the confirmatory soil and groundwater investigation. The soil under the site was determined to be tan to brown with fine to medium subangular sand with varying amounts of fine to medium gravel, silt, cobbles. A thin layer of anthropogeneic fill covered the natural soil. Groundwater was encountered at 9 to 13.75 feet below grade. Oil staining and odors were found in 22 of the 24 soil samples at depths from 6 to 22 feet below grade. The borings with the most significant contamination were at MCSB−16 to 22 and 24 at depths of 10 to 15 feet bgs. Hydrocarbon odors were present in the purge water from MCMW−01 to MCMW−04. Nine groundwater samples were taken from groundwater probe locations MCGP−01 to 04, MCMW−01, 02 and 04 and MW−13R and MW−30R. MCMW−03 consistently had product from 0.13’ to 2.29’ (1/11/16 sample) thick and MCMW−02 had 0.01’ of product on 9/9/17. Product was recovered using manual methods during the last month of monitoring. The product in MCMW−03 was reduced to 0.01 feet thick or less since the 4/20/17 monitoring event. No product was observed in any well on 5/26/17. An additional 15 gallons of product was recovered at MCMW−02 and MCMW−03, which brought the total amount of product recovered for the site to 7044 gallons.

I reviewed Appendix B − Boring Logs and Appendix C − Monitoring Well Construction Logs and had no comments. Next, I reviewed

Appendix D − Investigation Analytical Data Tables. Here were listed the soil and groundwater analytical results from sampling which had taken place during May 2016. Specifically, the soil sampling took place on 5/6/16, 5/9/16, 5/10/16, 5/13/16 and 5/23/16 to 5/25/16. The VOC concentrations for the soil samples from locations MCSB−01 to MCSB−25 were either entirely non−detect, mostly non−detect or had mostly very low results which did not exceed the CP−51 unrestricted residential standards. Exceptions to this were MCSB−01 (10−11.5 foot interval) with 4 exceedences to 20 ppm, MCSB−04 (10'−12') with 1 exceedence to 2.5 ppm and MCSB−09 (10'−12'), MCSB−10 (6'−8'), MCSB−11 (6.5'−8.5'), MCSB−12 (7'−9'), MCSB−16 (10'−12'), MCSB−17 (10.5'−12.5') and MCSB−18 (10.5'−12.5') each with 4 low to moderate (0.13 ppm to 76 ppm) VOC exceedences consisting of isopropylbenzene, n−butylbenzene, n−propylbenzene and sec−butylbenzene. MCSB−09 had 4 VOC exceedences which were in addition to those previously mentioned. The SVOC soil results for all of the samples were almost entirely non−detect, except for MCSB−07 (10'−12') and MCSB−15 (6'−7.5').

Groundwater was sampled from MCGP−01 to MCGP−04 on 5/13/16 and from MCMW−01 and MCMW−02 on 6/13/16. The VOC analytical results were mostly non−detect or below the TOGS 1.1.1 standards, except for the VOC results for benzene (2.8 ppb to 15 ppb), isopropylbenzene (12 ppb to 40 ppb), n−butylbenzene (7.2 ppb to 16 ppb), n−propylbenzene (8.5 ppb to 72 ppb) and sec−butylbenzene (6.5 ppb to 25 ppb). Also, MCGP−02 had 130 ppb of naphthalene and MCMW−02 had 24 ppb of naphthalene. The SVOC results were almost entirely non−detect for all of the samples mentioned above, except for 3 low exceedences in the sample from MW−13R.

Samples were analyzed for soil DRO (diesel range organics) on 5/9/16 and 5/25/16. The results were 180 ppm to 20,000 ppm. [Reviewers note: the results indicate the presence of low to moderate contamination under the northeast and southeast sidewalks, but removing it would be difficult due to the utilities just under these areas].

Appendix E − Data Validation Checklist was reviewed. The Organic Analyses were determined to be mostly acceptable in performance with only a small number of unacceptable performances. The exceptions to the acceptable determination were internal standard areas below or above the QC limits for various analytes for a number of soil sample VOCs and SVOCs.

Appendix F − Waste Disposal Documents. I found the documents to be fully signed and, thus, acceptable.

In the Conclusions and Recommendations section, D&B found that the soil contamination had been either immobilized or stabilized. They recommended no further investigating or remediation of the soil and the groundwater. They also stated that the spill is not migrating from the site. As per the above information, staff from D&B asked that the spill case be closed.

10/4/17 − Raphael Ketani. Based upon my review of the case file and the information in the Confirmatory Soil and Groundwater Investigation/Petition for Spill Closure Report, I determined that as much free product had been collected as was feasible, that the great majority of the soil contamination was permanently contained by the solidification and stabilization process, the groundwater contamination was very low and that there was little or no risk of the residual contamination affecting the public or the environment. I wrote a Spill Closure Letter and sent it to Mr. Mathelier for closing spill #8902374, Mother Clara Hale bus depot. I closed the spill case effective 10/4/17.

12/20/17 − Raphael Ketani. Today Mr. DeVinney [MDeVinney@db−eng.com/(516) 364−9890 X 3054] sent me the following email:

As you are aware, D&B is currently in the process of properly decommissioning the monitoring wells at Mother Clara Hale Depot following closure of the open spill number at the site. During the decommissioning process, we identified approximately 1.4´ of free−phase petroleum in MCMW−03. All other monitoring wells did not contain any measureable free−phase petroleum. As a result, we halted decommissioning activities at MCMW−03 and would like to setup a conference call with NYSDEC to discuss this issue. Please let us know your availability for a call today and what time would be good for you, and I will distribute call−in

information.

I responded by email and asked what the reason could be for the sudden appearance of so much oil in the well. I suggested illegal dumping of waste oil or a spill from a neighboring building. Next, I suggested a conference call anytime up to 4 PM today and up to 2:30 PM tomorrow. I noted that I would be out all day Friday.

Later, a conference call was held at 2 PM. In attendance were Gregory Mathelier, Construction Administrator at the NYCT, Cadecia Josephs, Geologist at the NYCT and assistant to Mr. Mathelier, Matt DeVinney and Stephen Tauss from Dvirka & Bartilucci, Vadim Brevdo and myself. Mr. DeVinney led the discussion.

He proposed fingerprinting the oil. Mr. Mathelier asked whether the oil looked like the same product that had been seen earlier in the year. Mr. DeVinney stated that they had opened up well MCMW−03 during the summer and had seen the same product. However, he wasn't sure whether this was hydraulic oil from the pocket on the other side of the depot. Mr. DeVinney added that large concrete structures were installed below the depot and that the oil may have traveled across the top of them. The oil sample was already sent to the lab for a 48 hour turnaround analysis. Mr. DeVinney also said that for a long time, the well didn't have product as the recharge was very slow. Mr. Mathelier stated that he wondered whether the spill would need to be opened up again. I responded that Dvirka & Bartilucci should go back to the well in several days and see whether the oil has returned. Mr. DeVinney stated that they could monitor the well every 2 weeks for a couple of months, see whether the oil has returned and collect it by hand pump if it appears. Both Mr. Brevdo and myself stated that this plan of action was acceptable to the Department. With that, the conversation ended.

Map Identification Number 71 **CONTAINMENT AREA** **Spill Number: 1602684** **Close Date: 06/27/2016**
721 LENOX AVE NEW YORK, NY TT−Id: 520A−0318−790

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2402 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	DANIEL − NYC TRANSIT	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	RMOMAR	Contact for more spill info:	DANIEL	Contact Person Phone:	(646) 252−5763

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/16/2016		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
OTHER	OTHER	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

tank failure unknown amount spilled PBS 2−189995

DEC Investigator Remarks:

6/16/2016: Rashad PBS 2−189995. Called Daniel he said tank test was on tank DSL−3A which is a 10,000 gallon diesel tank. There was no discharge and the tank is now out of service. His email is danielyu@nyct.com (send TTL to Francine and cc Daniel).

6/17/2016: Rashad Emailed TTF letter to Francine and uploaded it to D2. 721 Lenox Ave has alternate addresses of 721−735 Esplande Gardens Plaza, 101−165 West 46th Street, and 100−162 West 47th Street. Numerous previous spills exist for depot.

6/27/2016: Rashad Received email from Francine with closure letter. As per the report A petroleum release did not occur from the primary piping of the underground storage tank UST. The cause of the failure was a faulty diaphragm valve. The UST was temporarily taken out of service on June 16, 2016. The line leak detector and diaphragm were replaced on June 20, 2016 and retested on the same date. The test passed and the system was put back into service. Report uploaded to D2. Spill closed as no release occurred and repairs made.

Map Identification Number 72 **MOTHER CLARA HALE DEPOT** **Spill Number: 1511105** **Close Date: 04/25/2016**

721 LENOX AVE NEW YORK, NY TT−Id: 520A−0318−789

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2402 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: NYCTA
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: HRPATEL
Contact for more spill info: RICHARD IYASERE
Contact Person Phone: 6462525777

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/18/2016		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	0	UNKNOWN	0	UNKNOWN	
MOTOR OIL	PETROLEUM	0	UNKNOWN	0	UNKNOWN	
ANTIFREEZE	OTHER	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

there was 2 tank test failure.

DEC Investigator Remarks:

Obligado − Desk Duty − 2−18−16 − I called Richard Isayere. Left a message to call back the NYSDEC.

Richard Called me back. They are all underground tanks. According to Franklin, the testing company, there was no loss of product, No sign of leak. They will conduct further investigation. Richard said they will conduct more tests tomorrow and will update us upon completion of the tests if any additional tanks failed.

Summary for PBS # 2−189995

3 tanks failed tightness test 1 antifreeze − failed hydrostatic test GEN1 − failed Hydrostatic test DSL−2A − Over fill prevention valve on diesel tank

Assigned to Kumar Patel.

2−24−16 − Obligado − Update from Richard. One additional Motor Oil tank M/O−1A also failed the tightness test. No apparent spill or loss of product to the environment.

03/28/16−Hiralkumar Patel. 1:37 PM:− left message for Richard. 3:33 PM:− received message from Richard.

03/29/16−Hiralkumar Patel. 9:02 AM:− left message for Richard. 3:24 PM:− received message from Richard.

04/20/16−Hiralkumar Patel. 1:47 PM:− left message for Richard. 2:56 PM:− received call from Richard. he asked to contact Josephine Brown. 3:03 PM:− spoke with Ms. Brown and inquired her about tank test failures. she will review record and submit information/documents.

Josephine Brown MTA Ph. (718) 566−3415 email: Josephine.brown@nyct.com

3:22 PM:− sent email to Ms. Brown and asked to submit information about tank size, tank location, cause of failure, repair activities and cleanup of any petroleum discharge. also asked to submit copy of result of subsequent tank system test confirming its integrity.

04/25/16−Hiralkumar Patel. received email from Ms. Brown (at 5:08 PM on 04/21/16) including document confirming cause of failure

and actions taken. − 1,000 gal tank for waste anti−freeze (tank # WANTI−1) failed hydrostatic sump test due to sump seam walls and penetration fitting not being tight. containment sump seams repaired by using a fiberglass made adhesive and penetration boot repaired with by installing a new penetration boot. there was no release to the environment. containment sump passed the integrity test after repairs. − 2,500 gal tank for motor oil (tank # M/O−1A) failed hydrostatic sump test due to sump walls not being tight. repaired by using a fiberglass made adhesive. there was no release to the environment. containment sump passed the integrity test after repairs. − 10,000 gal tank for diesel (tank # DSL−2A) failed overfill prevention inspection due to piece of 2 inch pipe (drop tube) missing on bottom of overfill prevention valve. a section of 2 inch pipe was installed to the bottom of overfill prevention valve. there was no release to the environment.

as per the submitted document, a fourth tank (5,000 gal diesel tank # GEN−1) also failed hydrostatic test due to penetration boots not being tight. there is no information about repairs made on tank # GEN−1.

as per discussion between DEC Andrea and Richard, three underground tanks [1 antifreeze and two diesel tanks (GEN−1 and DSL−2A)] failed test. on 02/24/16, Richard called DEC Andrea and informed him about failure of one more tank (motor oil tank # M/O−1A).

11:51 AM:− sent email to Ms. Brown inquiring about status on 5,000 gal diesel tank (GEN−1).

after discussing with DEC Leszek about 5,000 gal diesel tank system failing hydrostatic test due to penetration boot not being tight, no further investigation needed and case can be closed on available information.

case closed based on available information.

Map Identification Number 73 **MOTHER CLARA HALE DEPOT** **Spill Number: 0405011** **Close Date: 01/10/2005**

721 LENOX AVE MANHATTAN, NY TT−Id: 520A−0100−743

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2402 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: 721 MALCOLM X BLVD
Revised zip code: 10030

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	PASHKO KAMAJ − MOTHER CLARA HILL DEPOT	Spiller Phone:	(718) 243−4581
Notifier Type:	Responsible Party	Notifier Name:	FRANK OCELLO	Notifier Phone:	(718) 243−4581
Caller Name:	PASHKO KAMAJ	Caller Agency:	NYC TRANSIT	Caller Phone:	(718) 243−4581
DEC Investigator:	MCTIBBE	Contact for more spill info:	PASHKO KAMAJ	Contact Person Phone:	(718) 243−4581

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Any Type of RP Including No RP − No DEC Field Response − Corrective Action by Spill Response Not Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/06/2004		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
WASTE OIL/USED OIL	PETROLEUM	0	UNKNOWN	0	UNKNOWN	GROUNDWATER
WASTE OIL/USED OIL	PETROLEUM	0	POUNDS	0	POUNDS	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
1	1000	Alert Model 1000 plus 1050 (Formerly Gilbarc	0.00	UNKNOWN
1	1000	Alert Model 1000 plus 1050 (Formerly Gilbarc	0.00	UNKNOWN

Caller Remarks:

Precision Test Failure on the waste oil tank. No actual release of material.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE see also 03−00236. Primary tank failed testing. Put air on tank and filled piping sump with water. Bubbles indicated a leaking union. Union was tightened and tank was retested and passed. Sump was tested and passed.

Map Identification Number 74 **NYC TRANSIT** **Spill Number: 0009127** **Close Date: 07/10/2002**

146TH ST & LENOX NEW YORK, NY TT−Id: 520A−0100−748

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2402 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: W 146TH ST / ESPLANADE GARDENS PLZ
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: NYC TRANSIT
Spiller Phone:
Notifier Type: Tank Tester
Notifier Name:
Notifier Phone:
Caller Name: RICKY ROUSS
Caller Agency: STATE ENVIORMENTAL
Caller Phone: (718) 265−3555
DEC Investigator: MCTIBBE
Contact for more spill info: LENNY
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/07/2000		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
3	10000	Horner EZ Check I or II	0.50	UNKNOWN

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE LEAK IN ABOVEGROUND VENT LINE. NO SPILL. REPAIRED AND RETESTED AND PASSED.

Map Identification Number 75 **YANKEE STADIUM** **Spill Number: 9813424** **Close Date: 07/18/2013**
800 RUPPERT PLACE BRONX, NY 10451 TT−Id: 520A−0013−561

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2414 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: 800 RUPPERT PL
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Notifier Type: Tank Tester
Caller Name: TOM GALLINGER
DEC Investigator: VXBREVDO

Spiller: TOM GALLINGER − YANKEE STADIUM
Notifier Name: TOM GALLINGER
Caller Agency: DORSON ENVIRONMENTAL
Contact for more spill info: TOM GALLINGER

Spiller Phone: (914) 592−3117
Notifier Phone: (914) 592−3117
Caller Phone: (914) 592−3117
Contact Person Phone: (914) 592−3117

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/02/1999		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
2	15000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

WILL EXCAVATE TOP OF TANK AND RE−TEST

APRIL 8, 1999 LETTER FROM DORSON ENVIRONMENTAL SAYS REPAIRS TO RETURN LINE WILL NOT BE MADE UNTIL FALL 1999. TANK #2 WILL REMAIN OUT OF SERVICE UNTIL THEN.**

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was SANGESLAND DORSON ENVIRONMENTAL TESTED TANKS #1 AND #2 ON 1/20/99

TANK #1 PAST, TANK #2 FAILED (CALLED IN THIS SPILL REPORT)

ON 2/11/99 THE TOP OF TANK #2 WAS OPENED AND THE TANK WAS ISOLATED AND RETESTED AND PASSED. THE FEED AND RETURN LINES TO TANK #2 WERE TESTED INDIVIDUALLY AND THE RETURN LINE FAILED.

TANK #2 WAS TAKEN OUT OF SERVICE AND WILL REMAIN OUT OF SERVICE UNTIL THE RETURN LINE IS REPAIRED IN THE FALL OF 1999.

RECHECK IN FALL 1999

2/8/2000 CALL FROM DORSON ENVIR

SYSTEM TESTED ON 1/20/1999 #2 TANK SYSTEM FAILED

SECOND TEST (2/1/99) SEPARATED TANK AND LINES

TANK #2 PAST, RETURN LINE ON #2 LINE FAILED

TANK #2 (SOUTHERN TANK)

3/1/2000 WILL EXPOSE TOP OF TANK, PULLING OUT ALL PIPING AND INSTALL ALL NEW PIPING

TANK #1 TANK IS OK BUT CONTRACTOR IS GOING TO RIP OUT ALL PIPING AND UPGRADE ALL PIPES ON THIS TANK ALSO

8/22/05 − spoke with Tom Gallinger from Dorson Environmental (914−592−3117). Tank was retested and soil cleaned up. He is sending me info. Left follow message for Tom on 9/6−Tom to fax me something on 9/9. On 9/15, called Tom again since I received nothing. On 9/26, left a message w/secretary.

11/15/05 − sent letter to Tom G, asking for response in 30 days.

12/28/05 − since no response to 11/15/05 letter, spill to remain open.

9/16/06 − called Gorson Environmental. T. Gallinger no longer with company. Someone to get back to me regarding this. Records for case are located off−site. bf

11/8/06 bf: sent ttf letter to: Gabe Ramos NYC Dept. of Parks and Recreation 5−Boro Operation Randalls Island, NY 10035

11/13/06 Spoke to Michael Byrne of LiRo Engineers (718)321−3136 ext. 246. He referred me to Steve Asquith of LiRo Engineers(917)217−4765. He has an office at Yankee Stadium and will be working on the dismantling of the stadium. I told him that the tanks are overdue for tightness testing and in order to close the spill, the tanks need to be tested and pass. He referred me to Ben Kramer of NYC Parks (212)410−8353. I explained the Mr. Kramer about the requirement to have the tanks tested. He was not aware that that was a requirement and did not know how to have test done. I told him a contractor can do it and one can be found in the yellow pages and if he has a problem finding a contractor, to call me back. He said that he would get testing done in order to close out the spill. bf

11/14/06 Spoke to Mr. Kramer from NYC Parks. He told me one tank was closed. He referred me to Steve Asquith who referred me to Martin Wesolowski of LiRo. Phone: (718)321−3136 Fax: (718)321−3422. PBS closure application was not submitted for the closed tank. Faxed application to him. He will reply within next few days. bf

11/17/06 spoke to Mr. Kramer from Parks. Apparently, NY Yankees had had a tank tightness test done in 2006. He will fax the test reults to me. bf.

12/1/06 received tank test for tank T−01. Tank passed. Still need to submit tank closure application for tank 002. Called Ben Kramer about this and he said he will check with Steve Asquith to submit the closure application. bf

6/21/07 received message from Martin Lozowlowski, consultant, (718)321−3136 ext. 242. Called him back and told him DEC needs clarification regarding the tank numbers, closurte of tank 2, explain the 300 gallon loss noted above, and an application to reline tank 1. bf

3/12/10 Received message from Becky Kinal AKRF(914)922−2362 of AK. Tanks to be pulled at Tuesday. Samples taken on all sides and bottom of tanks every 20 feet. She will check that contractor sent PBS Notification Form. I told her that closure

application muyst indicte both tanks removed since one is already closed in place. bf

2/4/11 Yesterday went to site to confirm Tank 002 is closed. Issued NOV by mail. See PBS file in database. bf

5/11/11 Received request for closure from AKRF. bf

7/8/11 Reviewed report. tanks were removed. Contaminated soil was taken away. All copntaminant levels are below clean−up standards. Two samples show exceedance of TAGM 4046: benzo(a)antracene [224 ppb vs. 330ppb] and benzo(a)pyrene [61 ppb vs. 85 ppb, 61 ppb vs.290 ppb, 61 ppb vs. 140 ppb, and 61 ppb vs. 97 ppb] Report attributes the exceedances to the site underlain by fill material 17 to 35 feet deep which consists of cinders, brick, concrete, gravel, and asphalt in a matrix of fine coarse sand.

07/16/13 − Spill Case is transferred from Brian Falvey (PBS Unit) to V. Brevdo (Section B) as per DER Region 2 decision − Tank Test Failure Spill Case. VB

07/18/13 − V. Brevdo Reviewed May 11, 2011 Underground Storage Tank (UST) and Spill Closure Report prepared by AKRF. Report review demonstrated that site was properly investigated, tanks removed and contaminated soil associated with the USTs has been successfully remediated. AKRF recommended no further action and requsted closure of spill case. Department agrees with conclusions of the report and recommendation of no further action with regard to spill case. Spill is closed effective July 18, 2013. V. Brevdo

07/18/2013 V. Brevdo Sent e−mail to Rebecca Kinal of AKRF with attached copy of spill case closure letter:

July 18, 2013

Dear Ms. Kinal:

Spill Closure Letter for the subject spill case is attached to this e−mail. Spill is closed effective 7/18/2013.

Contact me if you have questions.

Sincerely,

Vadim Brevdo

Map Identification Number 76 **YANKEE STADIUM** **Spill Number: 0511070** **Close Date: 11/10/2008**
161 STREET/RIVER AVE BRONX, NY TT−Id: 520A−0013−563

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2414 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: E 161ST ST / RIVER AVE
Revised zip code: 10451

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	JOE − YANKEE STADIUM		Spiller Phone: (718) 893−3100
Notifier Type:	Tank Tester	Notifier Name:	KRISTIN CIAZURRI		Notifier Phone: (718) 981−5710
Caller Name:	KRISTIN CIAZURRI	Caller Agency:	USA ENVIROMENTAL		Caller Phone: (718) 981−5710
DEC Investigator:	bkfalvey	Contact for more spill info:	JOE		Contact Person Phone: (718) 893−3100

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/21/2005		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks:

December 23, 2005

A Tank Test Failure Letter was sent to:

(NYC Dept Of Parks 5 Boro Operation Randalls Island New York, NY 10035)

12/29/05−Vought−Left message for Gabe Ramos (NYC Parks 212−410−8916).

05/17/06−Vought−Spill transferred from DEC Vought to DEC Piper as per DEC Austin.

5/19/06− DEC Piper spoke with MArtin W. PM for Liro Engineers. They will be conducting a subsurface investigation via Geoprobe on May 30, 31, 2006. Report will be submitted afterwards.

5/30/06− DEC Piper responded to site to oversee Geoprob ops. Met with Steve Asquith of Liro Eng− 917−217−4765cell. Of the three borings completed, only one location had a hit for fuel oil contamination. Three more borings will be installed by the end of the day. A report will be submitted afterwards.

11/10/08 This spill was transferred to me on 11/8/06 as part of Spill 9813424. This spill will be administratively closed. Refer to Spill 9813424. bf

Map Identification Number 77 **MELROSE−NYCHA** **Spill Number: 9906432** **Close Date: 11/29/2005**
304 E 156TH ST BRONX, NY TT−Id: 520A−0010−680

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 2434 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10451

Source of Spill: PRIVATE DWELLING
Spiller: NYC HOUSING AUTHORITY
Spiller Phone:
Notifier Type: Tank Tester
Notifier Name: SEBASTIAN LOREFICE
Notifier Phone: (212) 306−3229
Caller Name: SEBASTIAN LOREFICE
Caller Agency: NEW YORK CITY HOUSING AUT
Caller Phone: (212) 306−3229
DEC Investigator: SWKRASZE
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/30/1999		TANK TEST FAILURE	NO	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
001	23000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

EXCAVATE AND ISOLATE

DEC Investigator Remarks:

11/29/05: This spill transferred from J.Kolleeny to S.Kraszewski.

This spill closed to consolidate with open spill #0207044.

Map Identification Number 78 **MELROSE HOUSES** **Spill Number: 9815516** **Close Date: 06/02/1999**
304 E 156TH ST BRONX, NY TT−Id: 520A−0010−677

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 2434 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10451

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: FRANK OCELLO − NYC HOUSING AUTHORITY
Spiller Phone: (212) 306−3229
Notifier Type: Responsible Party
Notifier Name: SABASTIAN LOREFICE
Notifier Phone: (212) 306−3233
Caller Name: SABASTIAN LOREFICE
Caller Agency: NYC HOUSING
Caller Phone: (212) 306−3233
DEC Investigator: SACCACIO
Contact for more spill info:
Contact Person Phone:

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
03/30/1999		TANK TEST FAILURE	' −473286'	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
1	23000	Horner EZ Check I or II	0.00	FAIL

Caller Remarks:

tank test failure

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

6/2/99 −Saccacio− Subsequent tank test failure. Previous tank test failure (9300349) on 4/14/93 closed and (9006284) on 9/7/90 will be reopened. Spill closed 6/2/99.

Map Identification Number 79 **MELROSE HOUSES** **Spill Number: 9712621** **Close Date: 06/02/1999**
304 E 156TH ST BRONX, NY TT−Id: 520A−0010−678

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 2434 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10451

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: FRANK OCELLO − NYC HOUSING AUTHORITY
Spiller Phone: (212) 306−3229
Notifier Type: Affected Persons
Notifier Name: SAME
Notifier Phone:
Caller Name: SABATIAN LOREFICE
Caller Agency: NYC HOUSING AUTHORITY
Caller Phone: (212) 306−3229
DEC Investigator: SACCACIO
Contact for more spill info: FRANK OCELLO
Contact Person Phone: (212) 306−3229

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
02/11/1998		TANK TEST FAILURE	' −473286'	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
2	23500	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

TANK FAILED/ISOLATE AND RETEST

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

6/2/99 −Saccacio− Subsequent tank test failure. Previous tank test failure (9300349) on 4/14/93 closed and (9006284) on 9/7/90 will be reopened. Spill closed 6/2/99.

Map Identification Number 80 **MELROSE HOUSES −NYCHA** **Spill Number: 9311327** **Close Date: 01/10/2006**
304 E 156TH ST BRONX, NY TT−Id: 520A−0010−679

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 2434 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10451

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: NYC HOUSING
Spiller Phone: (212) 306−3142
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name: PAT NERO
Caller Agency: NYC HOUSING
Caller Phone: (212) 306−3142
DEC Investigator: SWKRASZE
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/20/1993		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

TO EMPTY TANK & CHECK LINES.

DEC Investigator Remarks:

01/10/06: This spill transferred from J.Kolleeny to S.Kraszewski.

This spill closed to consolidate with open spill #0207044. − SK

Map Identification Number 81 **MELROSE HOUSES** **Spill Number: 9300349** **Close Date: 06/02/1999**
304 E 156TH ST BRONX, NY TT−Id: 520A−0010−675

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 2434 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10451

Source of Spill: NON−MAJOR FACILITY (>1100 GAL) Spiller: NYC HOUSING AUTHORITY Spiller Phone: (212) 306−3142
Notifier Type: Tank Tester Notifier Name: Notifier Phone:
Caller Name: SEBASTIAN LORIFICE Caller Agency: TANK TESTING INC Caller Phone: (718) 789−3770
DEC Investigator: SACCACIO Contact for more spill info: Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
04/07/1993		TANK TEST FAILURE	' −473286'	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
001		Unknown	0.00	UNKNOWN
002		Unknown	0.00	UNKNOWN

Caller Remarks:

TANK # 002 − WILL E/I/R. UPDAT 4/14/93 − TANK # 001 TESTED AND FAILED

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

11/25/94: REASSIGNED FROM SIGONA TO HEALY ON 11/25/94.

TANK # 1
−−−−−−−−−

6/2/99 −Saccacio− Subsequent tank test failure. Previous tank test failure (9006284) on 9/7/90 will be reopened. Spill closed 6/2/99.

TANK # 2
−−−−−−−−−
6/2/99 −Saccacio− Subsequent tank test failure. Previous tank test failure (9006284) on 9/7/90 will be reopened. Spill closed 6/2/99.

Map Identification Number 82 **MELROSE HOUSES −NYCHA** **Spill Number: 9006284** **Close Date: 11/29/2005**
304 E 156TH ST BRONX, NY TT−Id: 520A−0010−673

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 2434 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10451

Source of Spill: COMMERCIAL/INDUSTRIAL Spiller: NYC HOUSING AUTHORITY Spiller Phone: (212) 306−3142
Notifier Type: Tank Tester Notifier Name: Notifier Phone:
Caller Name: ROBERT GANDOLFO Caller Agency: TANK TESTING, INC Caller Phone: (718) 789−3770
DEC Investigator: SWKRASZE Contact for more spill info: Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/07/1990		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
001		Unknown	0.00	UNKNOWN
002		Unknown	0.00	UNKNOWN

Caller Remarks:

2OK TANK FAILED HORNER EZY CHECK WITH A GROSS LEAK, WILL ISOLATE &

RETEST. SEE SPILL # 9300349

DEC Investigator Remarks:

11/29/05: This spill transferred from J.Kolleeny to S.Kraszewski.

This spill closed to consolidate with open spill #0207044.

Map Identification Number 83 **BROWNS CO COURT HOUSE** **Spill Number: 0101258** **Close Date: 09/12/2005**

851 GRAND CONCOURSE BRONX, NY TT−Id: 520A−0007−365

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2485 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: NASSAR − BROWNS CO COURT HOUSE
Spiller Phone: (212) 897−2674
Notifier Type: Tank Tester
Notifier Name: RICKY ROUFF
Notifier Phone: (718) 265−3355
Caller Name: RICKY ROUFF
Caller Agency: STATE ENV SERVICES
Caller Phone: (718) 265−3355
DEC Investigator: RJCOZZY
Contact for more spill info: NASSAR
Contact Person Phone: (212) 897−2674

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

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Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/02/2001		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
2	20000	Horner EZ Check I or II	0.00	UNKNOWN

Caller Remarks:

LEAK IS COMING FROM THE MANHOLE COVER ACCORDING TO TANK TESTER.

DEC Investigator Remarks:

9/12/05 − Cozzy − The contact for the Bronx Co. Court House (Nassar Ahmed) faxed documentation that repairs were made to tank #2 (the tank which failed a leak test). The manhole gasket, nuts and bolts were replaced along with some other piping hardware which enabled this tank to pass the next test. Spill closed.

Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIPPLE

11/30/04 letter sent requesting documentation

Map Identification Number 84 **GASETERIA** **Spill Number: 0207682** **Close Date: 08/06/2013**
115 EAST 138TH STREET BRONX, NY TT−Id: 520A−0013−276

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2508 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION OR PBS FACILITY
Spiller: PAULA SKRYJA − GASETERIA
Spiller Phone:
Notifier Type: Tank Tester
Notifier Name:
Notifier Phone:
Caller Name: JEFF BEAUDETTE
Caller Agency: TANKNOLOGY
Caller Phone: (800) 666−2605
DEC Investigator: aaobliga
Contact for more spill info: JEFF BEAUDETTE
Contact Person Phone: (800) 666−2605

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/24/2002		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
1−4	4000	VacuTest	0.00	FAIL

Caller Remarks:

PIPING PROBLEM − RECOMMEND UNCOVER ISOLATE AND RETEST

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT DEC Sigona sent a notice regarding the tank test failure on 10/24/2002.

BP PRODUCTS NORTH AMERICA, INC.

SUITE 410, 1 WEST PENNSYLVANIA AVENUE

TOWSON, MD 21204

ATTN: PAULA SKRYJA

see also spill 9408104

10/24/02 Tightness test on tanks/lines and leak detectors − Two regular USTs and two super USTs failed on ullage bubbles. Stage II was not tested because of ullage problems on the tanks. Dispenser #8 taken out of service because it pumps gas into vapor line when pump handle is off.

Reviewed 11/20/02 tank re−test results (received 1/8/03). Retested two regular unleaded and two premium unleaded USTs. All passed. Stage II was not tested because piping system needs to be reconfigured.

12/15/03 Left Paula Skryja voicemail message inquiring about status of site. PBS information shows five unleaded gas USTs were removed.

12/15/03 Spoke with Paula Skryja. Site was taken over from Gaseteria in August 2002. Some repairs were made to risers, no tank problems. Station was temporarily shut down until raze and rebuild. Gaseteria removed tanks 1.5 weeks ago. BP was on−site to oversee tank removal. Station to be back in service March 2004. Paula to forward information regarding initial TTF. (KMF)

12/26/03 Received information from Paula Skryja, BP regulatory assurance specialist. Tanks retested and passed on 11/20/02. Details of UST removal should be obtained from Gaseteria. (KMF)

9/19/05 − Spill transferred from Vought to Obligado

12/5/05 − Obligado − File Review:

Baseline Assessment Report, submitted by Delta, 12/2/05. At time of assessment, site was an active GAseteria service station with 4 4000 gallon gasoline USTs and 1 4000 gallon diesel USTs, 3 pump islands. Surrounding landuse is commercial. Sensitive receptor show Harlem River 500 ft soughwest of site. Closest school is 1400 ft northeast of site. Bedrock located at 8 to 12 ft below ground surface. Water is located in bedrock fractures between 8 and 15 ft bgs. Gw flows to southwest. Five soil borings

conducted on Dec. 20, 2001. Only soil exceedences in one soil boring SB−3 (9−10.2) with 5880 ppb xylenes and 16,100 ppb napthalene. Total VOCs 81,402 ppb. Three temporary wells installed.

Notable ground water results in ppb: (2/6 and 4/19/02) MW1 − benzene 233, ethylbenzene 539, MTBE 3070 MW2 − benzene 52.3, toluene 48, ethylbenzene 575, xylenes 1810, MTBE 122 MW3 − MTBE 50.2 (8/15/02) MW1 − benzene 205, ethlybenzene 435, MTBE 11000 MW2 − benzene 168, ethlybenzene 203, xylene 84.8 MW3 − MTBE 294

UST Closure Report, submitted by AGS, 12/03. On 11/20/03, 5 4000 gallon tanks excavated, Pump islands, piping, vent lines removed. 5 endpoint soil samples collected. IMpacts in only one soil sample, UST − SW Bottom, showing 5200 ppb xylenes. SVOC exceedences as well. One gw sample collected from pit water, showing 6.8 ppb benzene, 27 ppb ethylbenzene, 181 ppb xyelens, 89 ppb toluene. Excavated soil was reused as backfill. Recommends peparation of a Subsurface Investigation Work Plan to investigate and delineate the detected contaminates.

UST Closure Report Addendum, submitted by AGS, 12/03. Letter report documents collection of seven samples below former seven despensers and collection of 5 samples at various pipin glocations. VOCs impacts were not detected. SVOCs were detected mostly PAHs.

UST Closure Report Addendum No. 2, submitted by AGS, 9/04. Details discovery and abandonment of 3 unregistered and abandoned 550 gallon USTS. PBS registration number 2−191361 assigned on 9/3/04. 425 gallons of non DOT regulated waste liquid was removed from the two tanks. 3 soil samples were collected around the UST. USTs abandoned by filling with concrete slurry. No VOC exceedences detected from soil samples, minor PAH exceedences. Upon completion of the rebuiling activities AGS will prepare a Subsurface Investigation Work Plan to investigate and delineate athe detected contaminants.

12/7/05 − Meeting with ASR, Gaseteria, DEC. This site is scheduled for investigation in summmer 2006.

9/12/06 − Obligado − Emailed multi−site stipulation agreement to Gaseteria on 9/8/06. Sent original on 9/12/06. Due date for workplan is 4/1/06.

6/1/07 − Obligado − Phone conversation with Steve Muller to discuss schedule. New due date for workplan is 8/1/07.

9/25/07 − Obligado − Spoke to Steve Muller about this site. He requested proposing a workplan to collect samples from tank mat wells to determine if there is ground water contamination. I told him I would not accept this work plan and he must submit a workplan for well installation. He said he would submit the workplan today.

9/26/07 − Obligado − Received the Investigation Work Plan.

10/26/07 − Obligado − Reviewed the Subsurface Investigation Workplan. It proposes installation of 4 monitoring wells, collection of soil and ground water samples for 8260/8270 , well survey, and submission of summary report within 60 days. Sent approval email to Steve Muller.

1/30/08 − Obigado − Reviewed Subsurface Investigation Report. 3 monitoring wells were installed. Tank mat wells MWNW and MWSE were also sampled. Soil borings performed above bedrock and samples collected. MWs were installed into bedrock. No VOC impacts in soil above bedrock was above standards, minor SVOC impacts which may be attibutable to fill. Ground water impacts in 2 of 5 wells. Tank mat wells MWNW and MWSE were also sampled. Max BTEX is 579 at MW3, 247 at MWSE. The report recommneds

monitoring for 2 more quarters. I approved the report but required monitoring for 4 quarters at minimum.

5/20/08 − Obligado − Review 1Q08 monitoirng report. BTEX from ND to 272 ug/L. MTBE from ND to 9 ug/L. Will continue monitoring.

12/15/08 − Obligado − Meeting with Gaseteria/ASR/DEC. Gaseteria will submit Closure Petition.

2/2/09 − Obligado − Closure petition submitted.

9/14/09 − Obligado − Sent letter rejecting closure petition. Required soil borings in the vicinity of the tanks to document complete removal of contaminated soil, continued sampling of ground water for at least 2 more quarters.

3/12/10 − Obligado − JCB submitted a work plan to install 2 borings and collect soil and ground water samples in the vicinity of ht eUSTs to document contaminated soil removal. I sent an approval letter to JCB via email. I report will be submitted within 90 days.

4/7/11 − Obligado − I reviewed the RIR report. Soil contamination found in soil boring SB4 adjacent to MWSE. GW samples were collected and BTEX in SB4 was 287 ug/l. During the most recent monitoring event, elevated ground water concentrations detected in MWSE. BTEX was detected at 1591 ug/L in MWSE, including 560 ug/L Benzene. Concentrations in this well have been steadily increasing throughout 2010. I emailed Steve Muller to request the most recent data.

8/7/13 − Obligado − I reviewed the 1st Quarter 2013 report. Maximum BTEX concentrations are 51 ug/L. The report requests closures due to minimal exceeences. Concentrations have been consistently decreasing. This spill no longer appears to be a threat to human health and the environment. This spill is closed. Spill Closure Letter sent to Porcelli.

Map Identification Number 85 **120−128 WEST 145TH STREET** **Spill Number: 9210186** **Close Date: 07/22/1994**

120−128 WEST 145TH STREET MANHATTAN, NY TT−Id: 520A−0093−708

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2583 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	GASOLINE STATION OR PBS FACILITY	Spiller:		Spiller Phone:	
Notifier Type:	Tank Tester	Notifier Name:		Notifier Phone:	
Caller Name:	WILLIAM KLEIN	Caller Agency:	FRANKLIN CO.	Caller Phone:	(718) 762−5200
DEC Investigator:	O'DOWD	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/02/1992	07/22/1994	TANK TEST FAILURE	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

2X4K AND 1X2K−MANIFOLDED−NO ACTION YET−WILL EIR TOMORROW

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 86 **120−128 W.145TH ST** **Spill Number: 8606425** **Close Date: 08/21/1987**

120−128 W.145TH ST NEW YORK CITY, NY TT−Id: 520A−0093−706

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2583 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION OR PBS FACILITY
Spiller: MERIT SERVICE
Spiller Phone: (212) 283−9354
Notifier Type: Tank Tester
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: UNASSIGNED
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/13/1987	08/21/1987	TANK TEST FAILURE	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

4K AND 2K UNDERGROUND TANK SYSTEM PREMIUM NO LEAD WOULD NOT HOLD IN STANDPIPE.2K AND TWO 4K UNDERGROUND TANK SYSTEM.SEE HISTORY

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was

10/10/95: This is additional information about material spilled from the translation of the old spill file: UNKNOWN AMOUNT.

Map Identification Number 87 **PATTERSON HOUSES −NYCHA** **Spill Number: 9504190** **Close Date: 12/02/2005**

301 EAST 143RD STREET BRONX, NY TT−Id: 520A−0012−083

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2594 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10451

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: NYC HOUSING AUTHORITY
Spiller Phone: (212) 306−3142
Notifier Type: Tank Tester
Notifier Name:
Notifier Phone:
Caller Name: PAUL GOLDSTEIN
Caller Agency: NYC HOUSING AUTHORITY
Caller Phone: (212) 306−3233
DEC Investigator: SWKRASZE
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/07/1995		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	−1.00	GALLONS	0.00	GALLONS	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
002		Unknown	0.00	UNKNOWN

Caller Remarks:

TANK #2 − GROSS FAILURE

DEC Investigator Remarks:

12/02/05: This spill transferred from J.Kolleeny to S.Kraszewski.

This spill closed to consolidate with open spill #0506695.

Map Identification Number 88 **RESIDENTIAL** **Spill Number: 1408973** **Close Date: 02/20/2015**

2300 5TH AVE NEW YORK, NY TT−Id: 520A−0303−443

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2638 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: CHRIS STEELE − UNKNOWN
Spiller Phone:
Notifier Type: Tank Tester
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: vszhune
Contact for more spill info: CHRIS STEELE
Contact Person Phone: (718) 624−4842

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/04/2014		TANK TEST FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

tank failure, unk pbs #

DEC Investigator Remarks:

12/4/14− Spoke to Ray Lara from PTC. He said they cleaned and emptied he tank. They tested the tank and failed. They are going to perform the isolation test.

2/20/15−Mark Salamack from PTC sent an email dated 2/9/15 with the following information. The one on Lenox Avenue and the one on 5th Avenue are both in the same complex called the Savoy...whose main address is 45 West 139th Street in Manhattan...these are both above ground tanks that were tested when they went from #6 oil to #2 oil...both had a problem with the way an electronic gauge was connected on top of each tank...there was no contamination or spilled oil in either case...they have both been retested and passed the tightness tests...as we have not been paid yet for the job we have not sent anything to you to get the spill #s closed. Based on the information that the gauge was repaired, there was no contamination or spill in this site and the tank system was retested and past the test this spill is closed

CLOSED STATUS UNKNOWN CAUSE SPILLS AND OTHER CAUSE SPILLS IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 89 **TM625** **Spill Number: 9909034** **Close Date: 02/22/2002**
GERARD AV / E 150TH ST BRONX, NY TT−Id: 520A−0010−607

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 213 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: CON EDISON
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name: TRAYNOR
Notifier Phone: (212) 580−6763
Caller Name: STEVE ROMERO
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: CAENGELH
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/25/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
TRANSMISSION FLUID	PETROLEUM	20.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

OIL IS IN THE SUMP − UNK IF IT DISCHARGED ANYWHERE

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was ENGELHARDT FAXED TO ECS.

Spoke to Andrea Johnson of Con Ed. 130 gallons believed to have escaped based on inventory of remains of unit and amount in vault.

Map Identification Number 90 **221625; GERARD AVENUE** **Spill Number: 1009116** **Close Date: 06/27/2010**

GERARD AVENUE BRONX, NY TT−Id: 520A−0265−642

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 213 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: GERARD AV / E 150TH ST
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	ERT DESK − CON EDISON	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	DMPOKRZY	Contact for more spill info:	ERT DESK	Contact Person Phone:	(212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/25/2010		UNKNOWN		

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	UTILITY

Caller Remarks:

Street Address = Gerard Avenue & East 150 Street Spill Volume = 1 Unit of Measure = Pint Substance Name = Unknown Oil Cause Reason = Unknown Status Reason = Agency Approval Not Required

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 91 **208501; WALTON AVE & E150 ST** **Spill Number: 0890266** **Close Date: 10/29/2007**

WALTON AVE & E150 ST BRONX, NY TT−Id: 520A−0214−689
sec Walton Ave & E150 St

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 274 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: WALTON AVE / E 150TH ST
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: ERT DESK − CON EDISON
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: Unassigned
Contact for more spill info: ERT DESK
Contact Person Phone: (212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/15/2007		UNKNOWN		

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0.05	GALLONS	0.00	GALLONS	UTILITY

Caller Remarks:

MH9505 6 oz of unknown oil on 50 gallons of water Closed: Agency Approval Not Required

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 92 **214322; WALTON AVE & E150 ST** **Spill Number: 0814560** **Close Date: 10/31/2008**

WALTON AVE & E150 ST NEW YORK, NY TT−Id: 520A−0248−118

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 274 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: WALTON AVE / E 150TH ST
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: ERT DESK − CON EDISON
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: DMPOKRZY
Contact for more spill info: ERT DESK
Contact Person Phone: (212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/24/2008		UNKNOWN		

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	UTILITY

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 93 **MANHATTAN WEST 09 DOS −DDC** **Spill Number: 9910856** **Close Date: 09/12/2008**
125 EAST 149TH STREET BRONX, NY 10451 TT−Id: 520A−0008−950

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 367 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: NYC DEPT OF SANITATION
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: BILL DEBLASI
Caller Agency: TYREE ENVIRONMENTAL
Caller Phone: (516) 249−3150
DEC Investigator: ADZHITOM
Contact for more spill info:
Contact Person Phone:

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/13/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

Caller Remarks:

called in for site assessment on closed tanks and found contaminated soil and groundwater, poss sewer.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was KOLLEENY FUEL OIL UST WAS CLOSED IN PLACE BY TYREE, LATER THEY DID 4 CLOSURE BORINGS, 3 TO 10 FEET (REFUSAL), 1 TO GROUNDWATER AT 16 FEET. BORING TO GW FOUND SOIL CONTAM. AND GW CONTAM, INCLUDING FLOATING PRODUCT. KOLLEENY ASKED TYREE TO FORWARD CLOSURE RPT. WHEN AVAILABLE; ALSO CONTACTED LIRO−KASSNER, DDC'S CONSTRUCTION MGR. FOR SITE, AND REQUESTED EXPEDITED INVEST. OF SITE AND INCLUSION OF HEATING OIL TANK.

8−22−2005 Reviewed a Monitoring Report dated July 29, 2005. The report presented remedial system performance and groundwater monitoring data. In the report LiRo proposed to modify the current groundwater sampling schedule. Also, LiRo recommended completing proposed soil borings LBR−9 and LBR−10 with shallow screens to allow them to serve as pressure monitoring points in order to better evaluate system performance. The Department concured with these proposals.AZ

7/5/2006 Reviewed a Monitoring Report for the remedial system dated April 21, 2006. The site was formerly managed by Jonathan Kolleeny (NYSDEC). The report presents remedial system performance monitoring data. Groundwater samples were collected from monitoring wells MW−2, MW−6 and MW−10 on March 1, 2006. TVOCs in MW−6 is 139 ppb which is the highest number observed in this well. The numbers are on the clear upward trend in this well. MW−10 − TVOCs − 91 ppb, MW− 2 − TVOCs − 91 ppb − upward trend. AZ

11−20−2006 AZ reviewed a Monitoring Report for the remedial system dated August 9, 2006. URS proposed to advance a confirmation soil boring SB−5 near MW−04, LBR−02 and PM−01. DEC concurred with proposal. In a conversation with Jane Staten (URS)on 11/8/2006 I discussed the necessity of additional of the fuel oil spill. URS will send their people and will try to locate the source of this spill. AZ

12−18−2006 Reviewed a Monitoring Report for the remedial system dated August 10, 2006. MPE is operated at the site. The vacuum measurements ranged from 0 (MW−07) to 3.1 The closest extraction well to MW−07 has been shut off. Total VOCs and naphthalene ranged from 1 ppb to 56 ppb in MW−02. Low volumes of gw were extracted and treated during this monitoring period. URS has instructed Franklin to adjust the drop tubes in an effort to extract more groundwater. AZ

1−9−2007 Reviewed a Monitoring Report July through October 2006 for the remedial system dated November 14, 2006. MPE is operated at the site. Flowmeter broke at the end of September. It was not fixed; therefore, the total amount of gallons treated is unknown. Vacuum readings in MW−14 is 0 on 3 occasions. GW results − 65 ppb of total VOC in MW−02. AZ

1/23/2007 At the meeting with DDC/URS on January 10, 2007, the site was discussed. The firm, ATC Associates, will be taking over operation of Manhattan West 9. DEC requested that URS will analyze and improve performance of MW−14. AZ

7−6−2007 Reviewed a Monitoring Report for the remedial system for the period of November 2006 through January 2007 and dated

February 15, 2007. MPE is operated at the site. The MPE flowmeter continues to malfunction and requires replacement, but ATC will replace the flowmeter at this time. According to the report, only monitring well MW−02 is exhibiting contaminant concentrations above DEC GW Quality Criteria. The minor exceedances in MW−02 are too low for remedial treatment. On December 2007 URS advanced two soil borings. The analytical results showed VOC exceedances of TAGM #4046 in each soil sample. Total VOCs ranged from 403,400 to 446,260 ppb. Based on the latest sampling resultsURS will operate MPE system using only extraction well EW−09. Also, drop tubes will be raised to 5' above GWT to focus on vadose zone contamination. If MPE modifications are not effective, URS will excavate any remaining vadose zone soil contamination. AZ

11−30−2007 11/30/2007 I have reviewed System Performance Monitoring Report for the period April through August 2007. An e−mail was sent to DDC/URS/V. Brevdo: ...URS will sample all monitoring wells during the next quarterly groundwater event. Also, URS will advance a soil boring near the location of boring SB−05. URS requested NYSDEC permission to shut down the MPE system while samples are collected. This recommendation is rejected. Neither soil sampling results of the previous sampling round nor a figure with estimated extent of soil contamination were included in the report. Soil sampling data should be included in proposals for future borings and/or proposals for the system shutdown. Soil sampling performed in December 2006 showed total VOC contamination in a range of 400, 000 ppb. These high levels of soil contamination justify continuing operation of the MPE system. AZ

6−5−2008 An e−mail was sent to DDC/URS/V.B.: There is a spill #9910856 which was issued for this location and associated with the #2 fuel oil tank. This tank should be identified and the spill addressed. AZ

6/9/08. Address was corrected from 99 East 149 to 125 East 149th to match PBS registration. JMK.

6−11−−2008 I updated Jane Staten on the DEC Spill Records. According to the spill records h#2 fuel oil tank was closed in place and closure borings confirmed soil and groundwater contamination. DEC requested investigation/remediation of the heating oil tank. Information regarding investigation/remediation of the heating oil tank has yet to be submitted to DEC. According to Jane Staten (URS), the tank information and the site plan do not match 125 East 149th Street address. They will investigate and report their findings to DEC. AZ

9−12−2008 Reviewed URS report dated June 12, 2008. The report summarized existing information regarding spill #9910856 associated with the #2 fuel oil tank. In investigation Summary and Remedial Plan (ISRP) Addendum 2, dated May 2, 2008, LiRo addressed the issue of the 2,000−gallon heating oil tank closed in−place in December 1999. Closure soil samples were collected on December 13, 1999. LiRo considered the closure data during the design of the MPE system and placed extraction well EW−03 adjacent to TB−02, the only contaminated tank closure sample. The analytical data for LBR−03 was clean, which demonstrated that the soil in in the area had been remediated. Since this spill was addressed by the MPE remediation system URS recommended that spill #9910856 be closed. I concurred with this proposal and based on the above information closed this spill. An e−mail was sent to DDC/URS/V. Brevdo. AZ

Map Identification Number 94 **SPILL NUMBER 0406130** **Spill Number: 0406130** **Close Date: 09/07/2004**
CEDAR LANE/EAST 151 ST BRONX, NY TT−Id: 520A−0010−594

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 399 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: CEDAR LN / E 151ST ST
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Notifier Type: Other
Caller Name: SEAN DONOHUE
DEC Investigator: SMSANGES

Spiller: SONYA BARBOSA
Notifier Name: SEAN DONOHUE
Caller Agency: NY DEP
Contact for more spill info: SONYA BARBOSA

Spiller Phone: (718) 213−9643
Notifier Phone: (212) 689−1520
Caller Phone: (212) 689−1520
Contact Person Phone: (718) 213−9643

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/03/2004		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	UNKNOWN	0	UNKNOWN	SOIL

Caller Remarks:

a block long oil spill in the street.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was SANGESLAND 9/3/2004 NYC Sanitation was called to sand the area.

Map Identification Number 95 **MOBIL** **Spill Number: 8902416** **Close Date: 06/08/1989**
611 GRAND CONCOURSE BRONX, NY TT−Id: 520A−0007−940

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 457 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION OR PBS FACILITY
Spiller: NONE
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name: SHEILA HARPER
Caller Agency: MOBIL
Caller Phone: (703) 849−5384
DEC Investigator: TAYLOR
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/08/1989	06/08/1989	UNKNOWN	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	UNKNOWN	0	UNKNOWN	SOIL

Caller Remarks:

SOIL STOCKPILED ON SITE − NO CONTAMINATION DETECTED.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 96 **MOBIL GAS 12971(17−KTA)** **Spill Number: 0912104** **Close Date: 11/03/2010**
611 GRAND CONCOURSE BRONX, NY TT−Id: 520A−0248−006

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 457 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION OR PBS FACILITY
Spiller: MOBIL GAS 12971(17−KTA)
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: SFRAHMAN
Contact for more spill info: KEVIN BRADLEY
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/18/2010		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

soil test results

DEC Investigator Remarks:

Report in edocs. 09/24/10−Farrell−Report review requested by S. Rahman.

Spill closure request for Spill #09−12104 by (Kleinfelder East, Inc.−Joel Adrian/Alex Wirth−(845)−567−6530) June 18, 2010

SAR prepared by (Groundwater & Environmental Service, Inc.−Kelly McBride/Kevin Bradley−(866)−839−5195) March 22, 2010 for ExxonMobil Environmental Services Company, Fairfax, VA.

Location of interest: ExxonMobil Station No.12971 (17−KTA) 611 Grand Concourse Bronx, NY

GES (listed above) evaluated recognized environmental conditions (REC) conducted in 12/08 by Kleinfelder East, Inc. Property consists of a retail petroleum filling station. Grand Concourse followed further by commercial buildings and Cardinal Hayes High School (east), 151st Street with a McDonalds beyond (south), multi−family residential housing (west), & railroad tracks followed by a New York City Park (north). Ground surface elevation is about 101´ above sea level, groundwater found at depths of 11.72−38.90´bgs, northeast flow determined. Four (4) tank field observation wells are monitoring points at the corners of the tank field.

KEI (above) reported no public water−supply wells on the property or adjoining properties & no private potable within 1,000 ft of the property. REC´s include (5) current 4,000 gal gasoline USTs with piping and dispensing units. The property was also found to be potentially down gradient of other known spills.

Three (3) previous spill cases: NYSDEC #8902680 (contamination found during UST excavation) ˘ opened 6/5/89 ˘ closed 3/21/91 (400 cu yds of soil removed), NYSDEC #8902416 (presence of stockpiled soil; no contamination found) ˘ opened 6/8/89 ˘ closed 6/8/89, NYSDEC #9209173 (indication of leaks at all probe sites from UST alarm system) ˘ opened 11/6/92 ˘ closed 3/22/95.

GES began Phase II ESA on 12/2/09 with site−wide GPR survey. Three (3) monitoring wells were installed; soil & groundwater samples were taken and analyzed. Results of soil sample analysis included:

SVOC detect above NYSDEC TAGM: Benzo(a)pyrene ˘ in MW−1 (.165ppm), in MW−3 (.106ppm), & in MW−4 (.0706ppm) Lead & Chromium detect

On 1/4/2010 groundwater samples were collected and analyzed, no free−phase product was observed. Three of four field tank observation wells (TF−1 ˘ TF−3) were gauged on 1/4/2010. The wells were dry with no presence of LPH. Results of groundwater sample analysis included: VOC detect in MW−4: Benzene(23.1ppb) VOC detect in MW−1: MTBE (44.5ppb) SVOC detect in MW−1:

Benzo(b)fluoranthene (4.0ppb)

11/03/10 Residual contamination slightly above the limit.Case can be closed.(sr)

Map Identification Number 97 **MANHATTAN WEST 09 DOS −DDC** **Spill Number: 9513870** **Close Date: 10/13/2011**
99 EAST 149TH ST BRONX, NY TT−Id: 520A−0008−453

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 475 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Notifier Type: Other
Caller Name: SUSAN HECKEL
DEC Investigator: ADZHITOM

Spiller: PETER CASLER − NYC SANITATION DEPT
Notifier Name: SUSAN HECKEL
Caller Agency: PAULUS SOKOLOWSKI SARTOR
Contact for more spill info: PETER CASLER

Spiller Phone: (212) 703−3700
Notifier Phone: (908) 560−9700
Caller Phone: (908) 560−9700
Contact Person Phone: (212) 703−3700

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/31/1996		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
WASTE OIL/USED OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL
MTBE (METHYL−TERT−BUTYL ETHER)	HAZARDOUS MATERIAL	0	UNKNOWN	0	UNKNOWN	

Caller Remarks:

under ground tanks with unk petroleum or waste oil have caused soil to be contaminated−still under investigation

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was KOLLEENY

LiRo installed and is currently operating a multi−phase extraction system to address soil and groundwater contamination and recover free product. Product in some wells may be from off−site source (?), there's a nearby gas station and it's possible that some product in wells at the gas station may be coming from Manhattan 9. See Kerry Foley for details.

Kolleeny approved boring locations for LiRo's semi−annual soil monitoring on October 26, 2004.

This site transferred from Kolleeny to A. Zhitomirsky on 4/15/05. − JK

4/20/2005 AZ reviewed a Monitoring Report for the remedial system dated January 28, 2005. The site was formerly managed by Jonathan Kolleeny (NYSDEC). The report presents remedial system performance monitoring data. The report states that based on the site monitoring data, the MPE system is effectively treating contamination. Induced vacuum measurements from monitoring wells MW−3, MW−4 and MW−14 were observed to be below desirable levels. Vacuum should be increased in these wells. LiRo has proposed to shut down extraction wells EW−1, EW−3 and EW−5 since analytical data indicate that no apparent VOC contamination persists in that portion of the site. The Department concured with this proposal.AZ

6−7−2005 AZ reviewed a Monitoring Report received on May 3, 2005. The report presented remedial system performance and groundwater monitoring data. The report stated that based on the site monitoring data, the MPE system is effectively treating contamination. In the report LiRo proposed to shut down extraction wells EW−1 through EW−6, EW−13 and EW−14, since soil and groundwater data indicate that no apparent VOC contamination persists away from the Gerard Avenue sidewalk portion of the site. The Department concured with shutting down EW−1, EW−2, EW−3, and EW−13. The other extraction wells should continue to operate to address the remaining soil and groundwater contamination. However, the induced vacuum measurements from monitoring wells along Gerard Avenue were observed to be below desirable levels. The vacuum in nearby extraction wells should be increased to improve the induced vacuum in these monitoring wells. AZ

8−22−2005 Reviewed a Monitoring Report dated July 29, 2005. The report presented remedial system performance and groundwater monitoring data. In the report LiRo proposed to modify the current groundwater sampling schedule. Also, LiRo recommended completing proposed soil borings LBR−9 and LBR−10 with shallow screens to allow them to serve as pressure monitoring points in order to better evaluate system performance. The Department concured with these proposals.AZ

1−3−2006 Reviewed a Monitoring Report dated November 30, 2005. The report presents remedial system performance and groundwater monitoring data. The report states that elevated VOC concentrations persist in the area of PM−1. Naphthalene was also observed to exceed NYSDEC guidance value at PM−1. Results of recent groundwater sampling indicate that MW−10 continue to exceed 100 ppb total VOCs. In the report LiRo proposes to shut down several extraction wells. The Department concurred with shutting down wells EW−4, EW−6 and EW−14. The remainder of extraction wells should continue to operate to address the remaining soil and groundwater contamination. AZ

4−10−2006 Reviewed a Monitoring Report dated February 27, 2006. LiRo recommended continued operation of extraction wells EW−8,9 and 10 to continue rmediation of the soil contamination recently observed at LBR−9/PM−1. AZ

7/5/2006 Reviewed a Monitoring Report for the remedial system dated April 21, 2006. The site was formerly managed by Jonathan Kolleeny (NYSDEC). The report presents remedial system performance monitoring data. Groundwater samples were collected from monitoring wells MW−2, MW−6 and MW−10 on March 1, 2006. TVOCs in MW−6 is 139 ppb which is the highest number observed in this well. The numbers are on the clear upward trend in this well. MW−10 − TVOCs − 91 ppb, MW− 2 − TVOCs − 91 ppb − upward trend. AZ

11−20−2006 Reviewed a Monitoring Report for the remedial system dated August 9, 2006. URS proposed to advance a confirmation soil boring SB−5 near MW−04, LBR−02 and PM−01. I called J. Staten (URS)and concurred with this proposal. E−mail with the approval for the soil sampling plan was sent to Jane Staten (URS). AZ

12−18−2006 Reviewed a Monitoring Report for the remedial system dated August 10, 2006. MPE is operated at the site. The vacuum measurements ranged from 0 (MW−07) to 3.1 The closest extraction well to MW−07 has been shut off. Total VOCs and naphthalene ranged from 1 ppb to 56 ppb in MW−02. Low volumes of gw were extracted and treated during this monitoring period. URS has instructed Franklin to adjust the drop tubes in an effort to extract more groundwater. AZ

1−9−2007 Reviewed a Monitoring Report July through October 2006 for the remedial system dated November 14, 2006. MPE is operated at the site. Flowmeter broke at the end of September. It was not fixed; therefore, the total amount of gallons treated is unknown. Vacuum readings in MW−14 is 0 on 3 occasions. GW results − 65 ppb of total VOC in MW−02. AZ

1/23/2007 At the meeting with DDC/URS on January 10, 2007, the site was discussed. The firm, ATC Associates, will be taking over operation of Manhattan West 9. DEC requested that URS will analyze and improve performance of MW−14. AZ

7−6−2007 Reviewed a Monitoring Report for the remedial system for the period of November 2006 through January 2007 and dated February 15, 2007. MPE is operated at the site. The MPE flowmeter continues to malfunction and requires replacement, but ATC will replace the flowmeter at this time. According to the report, only monitring well MW−02 is exhibiting contaminant concentrations above DEC GW Quality Criteria. The minor exceedances in MW−02 are too low for remedial treatment. On December 2006 URS advanced two soil borings. The analytical results showed VOC exceedances of TAGM #4046 in each soil sample. Total VOCs ranged from 403,400 to 446,260 ppb. Based on the latest sampling resultsURS will operate MPE system using only extraction well EW−09. Also, drop tubes will be raised to 5’ above GWT to focus on vadose zone contamination. If MPE modifications are not effective, URS will excavate any remaining vadose zone soil contamination. AZ

11/30/2007 I have reviewed System Performance Monitoring Report for the period April through August 2007. An e−mail was sent to DDC/URS/V. Brevdo: ...URS will sample all monitoring wells during the next quarterly groundwater event. Also, URS will advance a soil boring near the location of boring SB−05. URS requested NYSDEC permission to shut down the MPE system while samples are collected. This recommendation is rejected. Neither soil sampling results of the previous sampling round nor a figure with estimated extent of soil contamination were included in the report. Soil sampling data should be included in proposals for future borings and/or proposals for the system shutdown. Soil sampling performed in December 2006 showed total VOC contamination in a range of 400, 000 ppb. These high levels of soil contamination justify continuing operation of the MPE system. AZ

6−5−2008 An e−mail sent to Jane Staten: I have reviewed the System Performance Monitoring Report and Confirmation Soil Sampling results for the above site. I have a few questions/comments: 1. It seems that the contaminated interval is soil is between 5’ and 7’ in the area of MW−04. However, you proposing excavation to the depth of five feet. I suggest performing the excavation to the depth of seven feet underground structures and utilities allowing. Also, the area near soil borings B−3.5, LBR−4 and well MW−10 is not covered by your excavation plan. What are your suggestions for this area? Could you submit to DEC soil plume map so we can decide on the extent of the excavation or other soil remediation strategy? AZ

7−18−2008 An e−mail was sento to URS: DEC concurs to the removal of the MPE system under the condition that the remaining contaminated soil be removed via excavation and end−point samples will be taken to confirm complete removal of the contamination. Also, a soil plume map showing historical contaminant concentrations throughout the site should be included in the post excavation remedial report. AZ

9−12−2008 I contacted Jane Staten. She advised me that URS is preparing documentation for soil excavation. They received DEC approval for excavation. AZ

1−5−2009 Reviewed a Monitoring Report through the 3rd Quarter 2008 and dated October 2, 2008. MPE system was operating since April 2004. Currently MPE system is being removed. On July 28 and 29, 2008, URS sampled groundwater monitoring wells. Total VOCs concentrations ranged from non detect to 80 ppb. DEC approved hot spot excavation on September 12, 2008. According to the report, URS is currently preparing the bid documents for the excavation work. Due to the low contaminant concentrations in groundwater, DEC suggests decreasing frequency of groundwater sampling from quarterly to semi−annual. An e−mail was sent to DDC/URS/V.Brevdo. AZ

3−3−2009 An e−mail was sent to J. Staten (URS): It seems that monitoring well MW−16 should be decommissioned. If the floor of the garage is covered in oily sludge then a new spill should be called in by the City or URS. Hot spot excavation should be performed as planned. Full round of groundwater sampling should be performed before petitioning for the spill closure. A temporary well (groundwater sampling point) might be installed at the location of MW−16 (which exhibited 83 ppb of the total VOC). AZ

4−23−2009 An e−mail was sent to J. Staten (URS): I have reviewed a Monitoring Report for this site for the 4th Quarter of 2008. The report stated that monitoring well MW−10 will be removed from the monitoring list because no components exceeded the quality criteria. However, downgradient wells should be monitored regardless of the contaminants presence. Since this site has groundwater flowing in northern and western directions, at least one downgradient well should be monitored in each direction. MW−10 should be monitored. Also, one downgradient well should be monitored at the western edge of the plume. AZ

9−10−2009 An e−mail was sent to J. Staten (URS): I have reviewed report for the above site. The report stated that well MW−16 was decommissioned because URS observed that it was filled to the top of the riser with dirt and water. This well consistently showed elevated reading for VOCs. This well should be re−installed. Also, a well downgradient from the contaminated wells should monitored. URS should add a downgradient well to their monitoring schedule. AZ

9−14−09 Based on the latest URS's submissions (report for the 2nd quarter 2009 dated June 10−2009) and on a correspondence from J. Staten, downgradient wells were sampled. MW−16 was sampled over 8−year period. Over this time, well MW−16 did not exhibit compounds above Groundwater Quality Criteria until a minor exceedance occurred in December 2007. Subsequent samples collected in 2008 also showed a couple of compounds above Groundwater Quality Criteria, but the concentrations were not significant (total VOC concentration under 100 ppb). AZ

12−1−09 An e−mail was sent to Jane Staten/Afsar Samani/Marcy Abzagh/Vadim Brevdo: Dear Jane, I have reviewed Summary of the Excavation Activities and Request for Spill Closure for the above site dated August 19, 2009. Also, I'm in receipt of your e−mail dated Nov. 20, 2009. The e−mail stated that the City, through DCAS, is involved with the owner of the Manhattan West 9 Garage (a private party) in an extensive renovation of that building. DDC stated that the planned renovation work is imminent and includes partial replacement of the Garage floor slab which will destroy the monitoring wells inside the garage. The hot spot excavation found that no VOCs or SVOCs were detected in any soil samples. The results of the excavation are approved. Please make sure that grab samples are taken when performing any soil sampling. Composite samples could be taken only in addition to grab samples.

Groundwater samples were collected from 19 wells. No groundwater samples were taken from wells MW−15 and MW−16 because they were destroyed. The latest site−wide groundwater sampling results showed that MW−06 had exceedances of VOCs. Also, the latest available results from MW−16, which is destroyed, showed that it had VOCs exceedances. Groundwater natural attenuation is being used at this site as a remedial strategy for groundwater. Since the groundwater wells will be destroyed at this facility during floor slab replacement and the City would like to close this spill, I request that soil sampling should be performed while doing garage floor replacement. Special attention should be given to the area where MW− 06 and MW−16 are located. These activities

should be coordinated between DCAS and NYCDDC. Environmental consultant should be present at the time of the excavation and perform soil sampling. If signs of contaminated soil/groundwater are observed during the excavation, A NEW SPILL SHOULD BE CALLED IN TO NYSDEC HOTLINE. If contaminated soil is discovered it should be removed to the extent possible, end point samples taken and activities immediately reported to NYSDEC. AZ

3−5−2010 Discussed with Jane Staten sampling plan for MW−9 site. She asked for directions for locations of soil sampling points. If utilities, underground structures and the scope of future work allow, samples should be taken in the area of MW−06, MW−16, diesel dispenser, 550 gal gasoline UST (removed), 4,000 gal diesel UST (removed), 4,000 gal diesel UST, 550 hoist oil, 550 kerosene, 550 motor oil and 550 gasoline USTs (abandoned in place). About 23 samples will be taken. AZ

8−3−2010 An e−mail was sent to H. Roberts: Harvey,Request regarding closure of spill 9513870 was denied as per my letter dated 12/01/2009. Soil sampling should be performed at the site as per my letter. If you have any questions regarding this matter please contact me at 718−482−6387. Thank you, AZ

8−3−2010 An e−mail from H. Roberts: Alex, We've been in touch with DOS regarding the renovation work at the Manhattan West 9 Garage. There is no schedule yet for floor slab replacement (see emails below). We'll let you know when the floor replacement gets scheduled. AZ

10−11−2011 I was contacted by K. Shenahan. The current site owner is postponing work on breaking the existing floor and sampling the soil due to the lack of funds.

10/13/2011 an e−mail was received from K. Shenahan: Alex, NYCDDC´s environmental consultants have been successfully implementing site remediation at this site since 2004. Remediation technologies included a multi−phase extraction system, natural attenuation and excavation.

Recently, the owner of the property informed NYCDDC that the financing of a proposed facility rehabilitation project would not be approved until the spill number was closed. Therefore, URS has prepared this e−mail to summarize the current situation at this site and formally request closure of spill #9513870.

Background There has been no activity on this site since late 2009.

The MPE system began operating in April 2004 and consisted of a network of 14 extraction wells. By February 2005, site monitoring data showed that free product was no longer present at the site and groundwater contaminant levels were significantly reduced. In addition, soil borings showed significant decreases in soil contamination. Based on these results, three of the extraction wells were shut off. In October and November 2005, LiRo advanced an additional five soil borings to evaluate system performance. Two of the five borings showed the presence of minor residual contamination.

In December 2006, URS completed another round of confirmation soil sampling and the data was clean except for one boring near well EW−09. As a result, operation of the MPE system was focused on the area around EW−09. In October 2007, URS advanced another confirmation soil boring and collected two soil samples from the area that was previously found to be contaminated. This data also indicated the presence of residual soil contamination. On January 24, 2008, URS issued an investigation summary report with recommendations for a ˆhot spot˜ excavation for soil and natural attenuation for groundwater. In an e−mail dated June 5, 2008, the NYSDEC responded to the report with several comments to which URS responded in a letter dated June 12, 2008. In an e−mail dated July 18, 2008, the NYSDEC approved removal of the MPE system, hot spot excavation, and natural attenuation for

groundwater. In addition, the NYSDEC approved closure of spill #9910856 in an e−mail dated September 12, 2008.

The ˆhot spot˜ excavation work was performed by Franklin on June 23, 2009. On August 19, 2009, URS issued a report to the NYSDEC documenting the results of soil excavation work conducted to remediate petroleum contaminated soil (soil confirmation sampling results are attached). The As−Built drawing illustrated the limits of soil excavation. The report also included a formal request to close spill #9513870 assigned to the site. The request to close the spill number was based on the fact that the remedial excavation was successful and there was only trace concentrations of volatile organic compounds (VOCs) detected in groundwater samples collected from the site (groundwater data for the past 5 years is attached). On November 20, 2009, URS also sent the NYSDEC an e−mail notifying them that owner of the facility was planning an extensive renovation of the site including replacement of the concrete floor slab which would destroy the monitoring wells located inside the garage.

On December 1, 2009, the NYSDEC sent an e−mail to URS indicating the favorable results of soil excavation were acceptable. In addition, the NYSDEC deferred approving the request for spill number closure until after floor slab replacement project. The NYSDEC requested that field screening and soil sampling be conducted during the concrete floor slab replacement project especially in the area of monitoring wells MW−06 and MW−16.

The most recent groundwater data collected at the site indicates very low concentrations of VOC in the following wells: MW−02 (14 ppb, no exceedances)

MW−06 (42 ppb, 4 exceedances)

MW−14 (2 ppb, no exceedances)

MW−15 (4 ppb, no exceedances)

MW−16 (65 ppb, 2 exceedances)

MW−20 (13 ppb, no exceedances)

MW−21 (9 ppb, no exceedances)

Summary

URS is formally requesting spill #9513870 be closed since it appears that the groundwater and soil have been remediated to the limits of the effectiveness of the approved remedial technologies. We hope this summary and attached data provides you with sufficient information to evaluate this request. URS will reiterate to the property owner that if and when he performs the facility rehabilitation project, he is required by law to notify the NYSDEC if petroleum contaminated soils are encountered. AZ

The following e−mail was sent to K. Shenahan/V. Brevdo/M. Asbagh:

Dear Kevin,

I have reviewed the Technical Memo dated October 12, 2011. The Memo stated that NYCDDC's Environmental Consultants have been successfully implementing site remediation since 2004. Remediation technologies included a multi−phase extraction (MPE) system

and excavation.

MPE system was operating at the site in 2004−2008. As a result, free phase product was no longer present at the site and groundwater contaminant levels were significantly reduced. The hot spot excavation work was performed in 2009. Post excavation end point sampling detected that no VOCs or SVOCs were detected in any soil samples. The remedial excavation was successful and there was only trace concentrations of volatile organic compounds (VOC) detected in groundwater. Based on the most recent groundwater sampling results, only six minor exceedances of groundwater standards were detected.

A current owner of the facility is planning an extensive renovation of the site including replacement of the concrete floor slab which would destroy the monitoring wells located inside the garage. If contamination is encountered during the slab replacement, a spill should be called in.

Based on the documentation provided to date, spill case 9513870 has been closed. All monitoring wells associated with this project should be closed according to the Department's Groundwater Monitoring Well Decommissioning Procedures .

The Department hereby reserves all of its rights concerning, and such forbearance shall not extend to, any further investigation or remedial action the Department deems necessary due to:

I. The off−site migration of petroleum contaminants that was not addressed by this evaluation.

II. Environmental conditions related to the Site which were unknown to the Department at the time of

this approval.

III. Information received, in whole or in part, after the Department's spill case closure, which indicates that the corrective action was not sufficiently protective of human health for the reasonably anticipated use(s) of the site; or

IV. Fraud in obtaining this approval for inactivation.

Please be advised that you should maintain a permanent file of all documentation and correspondence regarding this case for future use. The Department's files regarding this release may not be maintained indefinitely.

Sincerely,

Alex Zhitomirsky

NYSDEC FALL 1998 MTBE SURVEY INFORMATION FOR 9513870

Maximum MTBE concentration: 470.0 PPB
Current MTBE concentration: 470.0 PPB
BTEX offsite: No

Source of MTBE

Number of private drinking water wells impacted: 0
Number of public water supply wells impacted: 0

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  Steel Underground Storage Tank −                    Number of private drinking water wells impacted: 0
  Fiberglass Underground Tank    −                    Number of replacement wells drilled: 0
  Aboveground Storage Tank       −                    Number of water main extensions: 0
  Piping                         −                    Number of water main hookups: 0
  Source not identified          − X                  Number of residences provided w/ bottled water: 0
  Other source                   −                    Number of people affected: 0

Indoor Air Impacts : No
Aquifer Impacts    : No

Ongoing remediation: No

Monitoring Frequency
  Monthly −          Quarterly −          Semi−annual −          Annual −          Other −

Remedial Action used
  No Action −

  Groundwater                                         Soil
    Pump and Treat        −                             Soil Vapor extraction       −
    Air sparging          −                             Excavation and disposal     −
    Bioreactor            −                             Bioremediation              −
    Natural attenuation   −                             Low temp thermal desorption −
    Oxygen injection      −                             Oxygen injection            −
    Biosparging           −                             Other                       −
    Dual phase extraction −
    Other                 −

Under investigation: Yes
Dept. of Health involvement: No
-------------------------------------------------------------------------------------------------------------------------------
Dept. of Health Remarks: No remarks given for this spill
-------------------------------------------------------------------------------------------------------------------------------
General Remarks: No remarks given for this spill
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Map Identification Number 98 **MOBIL** **Spill Number: 9208906** **Close Date: 04/06/2004**

99 EAST 149TH ST BRONX, NY TT−Id: 520A−0008−109

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 475 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	GASOLINE STATION OR PBS FACILITY	Spiller:	exxon mobil	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:	DAWN MEDAGLIA	Caller Agency:	TYREE BROS.	Caller Phone:	(516) 249−3150
DEC Investigator:	KMFOLEY	Contact for more spill info:		Contact Person Phone:	

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.

Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
11/02/1992		UNKNOWN	2−156590	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	GROUNDWATER

Caller Remarks:

FROM PRIOR TO MAR 90 CONTAM. SOIL EXISTS−OLD MONITORING WELLS(3)DESTROYED DURING CONSTRUCTION EXCAV.−CONTAM.SOIL EXCAV.OR TO BE EXCAV & STOCKPILED ON POLY−TEST

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was K FOLEY 10/10/95: This is additional information about material spilled from the translation of the old spill file: CONTAM. SOIL G/W.

12/10/03 Reassigned from Sigona to Foley.

1/28/04 Spoke to Brian Melancon of GSC (845−561−9890), Mobil's consultant. Mobil wants to close out spills. They divested property in March 1990 but have been active in remediating their spill. Cross Deegan Realty only plans on addressing their spill #9909670 (by restoring to pre−spill conditions). I requested that GSC send in a formal closure request with data justifying closure of Mobil spills.

3/1/04 GSC submitted closure request report.

7/94−10/00 ExxonMobil operated an SVE/AS system removing approx 8861 lbs of VOCs. Four air sparge/vapor extraction wells and one air sparge well were installed. In October 2000, the system was shut down due to asymptotic recovery rates. DEC was notified of system deactivation in March 2001 Handex Site Status Report.

Spill #9708729 was issued to the site on 10/25/97 in response to dumping of oil into sewer system.

Spill #9909670 was issued to the site on 11/9/99 for petrotite failure on 4000gal gas UST.

4/6/04 NFA letter to be hand delivered at Albany meeting 4/7. Reviewed GSC's closure request report(3/1/04). Concentrations were decreasing to ND prior to Spartan's tank test failure.

See Spartan files (spill #9909670)

Map Identification Number 99 **MOBIL** **Spill Number: 8911938** **Close Date: 04/10/1990**
99 EAST 149TH STREET NEW YORK CITY, NY TT−Id: 520A−0007−976

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 475 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION OR PBS FACILITY
Spiller: EXXON MOBIL
Spiller Phone: (212) 292−4400
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name: JOAN LUCIA
Caller Agency: MOBIL
Caller Phone: (703) 849−5405
DEC Investigator: O'DOWD
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/01/1990	04/10/1990	UNKNOWN	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	GROUNDWATER

Caller Remarks:

SITE ASESSMENT SHOWS CONTAMINATED SOIL, WILL PULL TANKS ON 4/6/90.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 100 **AMOCO SERVICE STATION** **Spill Number: 0311549** **Close Date: 01/14/2004**
99 EAST 149TH STREET BRONX, NY TT−Id: 520A−0007−654

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 475 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION OR PBS FACILITY
Spiller: HANK ALPERT − SPARTAN PETROLEUM
Spiller Phone: (516) 365−8700
Notifier Type: Other
Notifier Name: BARRY SCHWARTZ
Notifier Phone: (718) 391−1333
Caller Name: BARRY SCHWARTZ
Caller Agency: NYC DEPT. OF DESIGN & CON
Caller Phone: (718) 391−1333
DEC Investigator: KMFOLEY
Contact for more spill info: BARRY SCHWARTZ
Contact Person Phone: (718) 391−1333

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
01/07/2004		OTHER	2−600626	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	POUNDS	0	POUNDS	SOIL

Caller Remarks:

DOING SUB SURFACE INVESTIGATION ,FOUND CONTAMINATED SOIL. DIGGING FOR A SEWER PROJECT. WILL NOT BE DOING ANYTHING FURTHER.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was K FOLEY 1/14/2004 contaminated soil letter will be sent to Amaco

1/14/04 To be investigated and remediated under spill #9909670 (KMF)

Map Identification Number 101 **AMOCO** **Spill Number: 0307681** **Close Date: 12/10/2003**
99 EAST 149TH ST BRONX, NY TT−Id: 520A−0007−629

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 475 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION OR PBS FACILITY
Spiller: SPARTAN PETROLEUM & MOBIL
Spiller Phone:
Notifier Type: Other
Notifier Name: SAME
Notifier Phone:
Caller Name: BRIAN MELANCON
Caller Agency: GSC
Caller Phone: (845) 561−9890
DEC Investigator: KMFOLEY
Contact for more spill info: IMPACT ENVIROMENTAL
Contact Person Phone: (631) 269−8800

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
10/21/2003		UNKNOWN	2−600626	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

Caller Remarks:

Ground water samples taken at above location reveal contamination. No further information available at time of call.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was K FOLEY 10/21/03 TJD @duty desk Soil contamination letter sent to Amoco.

11/7/03 CALL FROM IMPACT ENV. //REQUESTING INFO// 11/18/03 Received CAP, 3rd Quarter 2003 monitoring report, and tank test results(pass). 11/21/03 transferred from tipple to vought

12/10/03 Reassigned from Vought to Foley. To be investigated and remediated under spill #9909670.(KMF)

Map Identification Number 102 **COMMERCIAL PROPERTY** **Spill Number: 0601001** **Close Date: 05/18/2006**
557 GRAND CONCOURSE BRONX, NY TT−Id: 520A−0006−772

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 568 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: BRUCE BECK − COMMERCIA PROPERTY
Spiller Phone: (631) 422−3370
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: KSTANG
Contact for more spill info: BRUCE BECK
Contact Person Phone: (631) 422−3370

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/26/2006		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks:

4/28/06− DEC Piper spoke w. Bruce Beck of NAtional. aS per conversation he has completed a phase II on an E designated site. VOC asn ,metal contamination in GW. LEft message for Bruce requesting copy of report fro review. Afterwards a meeting can be held.

05/18/06 − Reviewed Site Investigation Report. NYCDEP is dealing with the contaminated soil under the Hazardous Materials E Designation provision. The highest TVOCs in GW is 1.5 ppm. NYCDEP has required vapor barrier and sub−slab venting system to be installed beneath the proposed new building. The residual GW contaminations do not pose any immediate risk to the environment and should biodegrade over time. This spill is inactivated. − KST

Map Identification Number 103 **MANHOLE #4506** **Spill Number: 0503997** **Close Date: 01/09/2006**
149TH & GERARD AVE BRONX, NY TT−Id: 520A−0010−596

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 571 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: E 149TH ST / GERARD AVE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN AT THIS TIME
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name: TIMOTHY PARKER
Notifier Phone: (212) 580−8383
Caller Name: TIMOTHY PARKER
Caller Agency: CONED
Caller Phone: (212) 580−8383
DEC Investigator: GDBREEN
Contact for more spill info: ERT DESK MIKE DAUGHTERY
Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/05/2005		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

coming off 24 hour due to a default in manhole: coned # 159570: no to 5 questions;

DEC Investigator Remarks:

159570.000

05−Jul−2005 05:15 hrs. Flush Mechanic, Jonh Maloney (05863) while preparing to flush MH−4506 located at SWC e149 St & Gerard Ave, Bronx, NY, reports finding ~ 6 oz of unknown oil in the dirt of a dry manhole. No fire/smoke is/was involved. No sewers, waterways or private property were affected. No injuries were reported at this time. Crew hung environmental tag # 40794 in structure. Crew took 2 samples for PCB & OIL ID on chain of custody (dd−09490). Clean up pending sample results. L Fischer 55784

05−July−2005 09:20 hrs. At 09:15 hrs. Bx/West Underground OS. D. Scarimbolo # 87659 reported that the oil in the manhole is leaking from a primary joint on the floor of the manhole and will require a feeder outage to make repairs. This incident has been changed to a reportable spill due to this and that the cleanup will no longer meet the 24 hr. deminimis time criteria. CIG. Rep. T. Parker # 87739 notified. R. Browne # 21646

Map Identification Number 104 **MANHOLE 3889** **Spill Number: 9912518** **Close Date: 11/15/2004**
EXTERIOR ST/150TH ST BRONX, NY TT−Id: 520A−0014−275

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 638 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10451

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Other
Notifier Name: MR MARKET
Notifier Phone: (914) 925−6205
Caller Name: TONY LOPEZ
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: JHOCONNE
Contact for more spill info: TONY LOPEZ
Contact Person Phone: (212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/02/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

1 gal oil on 500 gals of water contained in manhole. clean up pending con ed 129−830

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was O'CONNELL

e2mis no. 129830:

02/02/00 @ 11:00 Hrs. Operating supervisor L. Fischer reports finding approx (1) gallon of unknown oil on top of approx. (500) gallons of water in manhole # 3889 Exterior St. 850' n/o 150th Street in the Bronx. Conduit plate 12−A indicates no sewer connections at this manhole, water is stagnent. Mr. Fischer took sample and placed environmental tag # 24429 in manhole. No sewers or water ways are affected, clean up pending sample results.

02/02/00 @ 17:50 Hrs Lab Sequence Number: 00−00956 PCB <1.00 PPM

02/03/00 @ 11:30 Hrs. Operating supervisor L. Fischer reports that the clean up in manhole # 3889 is complete, Corporate tanker removed approx (500) gallons of water and (1) gallon of unknown oil from structure. The manhole was power washed and the wash

water was removed by the corporate tanker. The solid debris was removed by the flush vactor truck. The sump was verified as a concrete sump. Environmental tag # 24429 was removed.

Map Identification Number 105 **208591; EXTERIOR ST** **Spill Number: 0890401** **Close Date: 08/16/2010**
EXTERIOR ST , NY TT−Id: 520A−0218−728
725 EXTERIOR ST & W. 150TH STREET

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 638 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: 725 EXTERIOR ST
Revised zip code: 10451

Source of Spill: COMMERCIAL/INDUSTRIAL Spiller: ERT DESK − CON EDISON Spiller Phone:
Notifier Type: Responsible Party Notifier Name: Notifier Phone:
Caller Name: Caller Agency: Caller Phone:
DEC Investigator: JMZALEWS Contact for more spill info: ERT DESK Contact Person Phone: (212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/22/2007		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0.50	GALLONS	0.00	GALLONS	UTILITY

Caller Remarks:

V−2889 2 qts oil on 300 gallons water− feeder 2x28− restricted access, construction Pending: Cleanup

DEC Investigator Remarks:

08/16/2010 See eDocs for Con Ed report detailing cleanup and closure DMP

Map Identification Number 106 **204710; EXTERIOR ST** **Spill Number: 0890003** **Close Date: 07/03/2007**
EXTERIOR ST , NY TT−Id: 520A−0218−078
CROMWEL AVE MAJOR DEEGAN EXPWY

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 638 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: EXTERIOR ST
Revised zip code: 10451

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: ERT DESK − CON EDISON
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: Unassigned
Contact for more spill info: ERT DESK
Contact Person Phone: (212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/26/2007		UNKNOWN		

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0.38	GALLONS	0.00	GALLONS	UTILITY

Caller Remarks:

MH3899 ~ 3 pints of unknown oil on water Closed: Agency Approval Not Required

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 107 **NEXT TO YANKEE STADIUM** **Spill Number: 0605936** **Close Date: 06/21/2007**
150TH /EXTERIOR STREET SOUTH BRONX, NY TT−Id: 520A−0012−146

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 638 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: E 150TH ST / EXTERIOR ST
Revised zip code: 10451

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: REBECCA DARR
Spiller Phone: (718) 344−3853 ext. C
ext: CELL
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: SFRAHMAN
Contact for more spill info: REBECCA DARR
Contact Person Phone: (718) 344−3853 ext. C
ext: CELL

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/23/2006		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

Caller Remarks:

DEC MUST CALL FIRST BEFORE GOING, IT IS A LOCKED SITE: WHILE DIGGING FOUND CONTAMINATED SOIL;

DEC Investigator Remarks:

Sangesland spoke to Rebecca Darr of the New York City Economic Development Corportation. Her group is involved with the construction of the New Yankee Stadium next to the existing stadium. As part of this project, the city needed to replace some neighborhood parkland and ball fields that were being taken over by the new stadium construction. The City is rebuilding several old piers along the waterfront and turning them into parkland and ball fields. During the effort to rebuild these piers, the city found several buried tanks used 50 years ago when this was part of a railroad parking area. Trench work done on these piers finds that the fill material is contaminated with petroleum. A sheen was found on the Ground Water at approx 5 ft depth. Langen Engineering has been hired by the city to Deal With the contamination issues. It has not yet been determined how the remediation will be done. 12/12/06 Rahman− Jason Hayes from Langan Engineering(917.859.4908/212.479.5427,jahayes@langan.com) called to say they have found one additional UST while removing those previously discovered USTs.New PBS application will be submitted to DEC. 02/26/07 Rahman−Email from Langan describe the following: 1) The Pier 3 excavation is nearly complete and has resulted in the removal of the vast majority of the source area; current remedial excavation size is approximately 170 feet by 170 feet.A portion of the western sidewall, approximately 80 to 90 linear feet adjacent to the Harlem River, contains grossly contaminated soil that can not be feasibly removed.The sidewall contamination can not be feasibly removed due to the risk of compromising existing waterfront structures (i.e., crib wall, rip rap) that hold the shoreline in−tact and separates the Harlem River from the excavation.The shoreline opposite this sidewall section has been carefully observed at varying tide elevations and no indication of contamination (visual or olfactory) has been observed. Endpoint samples were collected on either side of the contaminated sidewall to delineate its extent. Previous investigation samples and endpoint samples (TCL VOCs and TCL SVOCs) in the area show SVOC exceedances characteristic of historic urban fill and occasional slight VOC exceedances. Given the large

amount of source area removed from the pier and considering protection of the existing waterfront structures, the limited area of grossly contaminated material associated with the sidewall will be left in−place and is expected to naturally attenuate over time.The contaminated layer in the sidewall is approx. 2 to 8 inches thick and is at a depth of approximately 6 to 10 feet below surface grade.

2) The Pier 2 excavation is roughly 80 percent delineated, with the grossly−contaminated material removal area currently estimated at 60 feet by 90 feet. As discussed, a portion of the northern sidewall,approximately 40 to 50 linear feet adjacent to an inlet (interpier) shared with the Harlem River, contains grossly contaminated soil that can not be feasibly removed. The sidewall contamination can not be feasibly removed due to the risk of compromising existing waterfront structures (i.e., crib wall, bulkhead) that hold the shoreline in−tact and separates the Harlem River interpier from the excavation. Note that the interpier shoreline opposite this sidewall section has been carefully observed at varying tide elevations and no indication of contamination (visual or olfactory) has been observed. Endpoint samples were collected on either side of the contaminated sidewall to delineate its extent. Previous investigation samples and endpoint samples (TCL VOCs, TCL SVOCs, lead) in the area show SVOC exceedances characteristic of historic urban fill, and VOC exceedances (previous investigation samples). Given the large amount of source area to be removed from the pier and considering protection of the existing waterfront structures,the limited area of grossly contaminated material associated with the sidewall will be left in−place. Because of the presence of VOCs observed in the soil during the previous investigation, a chemical oxidant (Oxygen Release Compound) will be added to the remedial excavation and on the grossly−contaminated sidewall material to be left in−place. The Oxygen Release Compound (ORC) will be added prior to backfill of the excavation and will consist of approximately 600 pounds of compound; 300 pounds of RegenOX Oxidizer Complex and 300 pounds of RegenOX activator complex. Note that the contaminated layer in the sidewall is approximately 2 to 6 inches thick and is at a depth of approximately 6 feet below surface grade.

3) Backfill of the remedial excavations shall consist of crushed 3/4−inch stone to approx. 1 foot above the water table, geotextile fabric on top of the gravel layer (to keep the soil backfill separate),and compacted soil to grade level. All Soil brought on−site to be used as backfill will contain no exceedances of the NYSDEC Technical and Administrative Guidance Memorandum 4046 Recommended Soil Cleanup Objectives (TAGM 4046 RSCOs), which will be demonstrated by one composite soil sample per 1,000 cubic yards of backfill.

06/21/07 Closure report from Langan Engineering dated May 2007.Remediaiton activities included: removal and disposal of 13,368.88 tons of non hazardous contaminated soil, removal and disposal of 8,195.57 tons of concrete, asphalt and general construction and demolition debris,removal and disposal of nine USTs, removal and disposal of 4,477 gallons of product and UST cleaning fluids, application of chemical oxidant to the pier 2 excavation, post excavation end point sampling and backfill ofthe piers 2 & 3 remediation excavation.At pier 2,approx. 40−50 linear ft of northern excavation sidewall,contained petroleum contaminated soil that could not be feasibly removed due to the risk of compromising existing waterfront structures that hold the shoreline in−tact and separate the Harlem river from the excavation.ORC was applied in that area to remediate.Eighteen end point samples were taken from pier 2− no VOC was detected above TAGM RSCOs.SVOC exceedances typical of historic fill were detected in the samples.Fifty six end point samples were collected from Pier 3. VOC/SVOCs were within acceptable limit.Details report in edocs.

Map Identification Number 108 **SPILL NUMBER 0204235** **Spill Number: 0204235** **Close Date: 07/23/2002**

MAJOR DEEGAN/150TH ST BRONX, NY TT−Id: 520A−0006−946

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 638 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: MAJOR DEEGAN EXPWY / E 150TH ST
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL VEHICLE	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Local Agency	Notifier Name:	FDNY	Notifier Phone:	
Caller Name:	CHERELLE	Caller Agency:	NYC DEP	Caller Phone:	(718) 595−6777
DEC Investigator:	JBVOUGHT	Contact for more spill info:	FDNY	Contact Person Phone:	(718) 430−0200

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/23/2002		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

req dec to respond..material is going over the side of the roadway and onto a building.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT 7/23/2002−VOUGHT−Spoke with Lt. Calahan of Engine Company 60 who responded to spill.Spill did not go over side of raodway as remarks stated. FDNY checked both inside and outside of building for diesel. SPill went down storm drain on highway which empties onto street. Spill on highway and street cleaned using speedy dry. DOS was notified to sweep street. Spill on asphalt. Spill closed by Vought.

Map Identification Number 109 **BRONX HOUSE OF DETENTION** **Spill Number: 0504695** **Close Date: 04/04/2006**
653 RIVER AVE. BRONX, NY TT−Id: 520A−0007−813

MAP LOCATION INFORMATION
Site location mapped by:
Approximate distance from property: 654 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10451

Source of Spill: UNKNOWN
Spiller: GENE BIFULCO − BRONX HOUSE OF DETENTION
Spiller Phone: (516) 938−5476
Notifier Type: Other
Notifier Name: BOB LAGA
Notifier Phone: (718) 762−5200
Caller Name: BOB LAGA
Caller Agency: FRANKLIN CO. CONTRACTORS
Caller Phone: (718) 762−5200
DEC Investigator: SFRAHMAN
Contact for more spill info: GENE BIFULCO
Contact Person Phone: (516) 938−5476

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/19/2005		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

Took soil samples found contam. No groundwater affected. Unknown who is doing clean up.

DEC Investigator Remarks:

Cross reference to Spill#0103521 A contaminated soil letter needs to be prepared Find address of property manager 07/25/05 Sharif Rahman− A CSL was sent to PBS address. 02/27/06 Sharif Rahman− I spoke with Andrew Bowie,(718)546−2804 of NYC Dept. of Correction and he said he would look in to it , have concerned person contact with DEC regarding the final report. 03/20/06 Sharif Rahman−DEC has n't received any call/correspondence regarding the site.Left another messege for Andrew Bowie.Later on, Andrew got back to me and indicated that Max Rigaud,(718)728−3550 of DDC is responsible to send DEC the report. He will communicate with Max shortly. 03/30/06 Sharif Rahman− This is a duplicate of spill#0103521.Spill#0103521 is associated with leaking underground piping to the boiler system.As part of investigation work for spill # 0103521, consultant came across visible stain and elevated PID readings and spill# 0504695 was called in.Consolidated with the initial spill case−End.

Map Identification Number 110 **TRANSFORMER MANHOLE 644** **Spill Number: 0313571** **Close Date: 07/15/2004**
EAST 149TH ST BRONX, NY TT−Id: 520A−0014−314

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 702 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: EXTERIOR ST / E 149TH ST
Revised zip code: 10451

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Other
Notifier Name: PAUL DINONATO
Notifier Phone: (212) 580−6764
Caller Name: PAUL DINONATO
Caller Agency: CON ED
Caller Phone: (212) 580−6764
DEC Investigator: SKARAKHA
Contact for more spill info: ENVIRONMENTAL DEST
Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/10/2004		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	3.00	POUNDS	0.00	POUNDS	SURFACE WATER

Caller Remarks:

3 gallons of unknown oil type product on 200 gallopns of water & humas waste in transformer manhole. All contained. Clean up pending crew availability.

DEC Investigator Remarks:

e2mis 152443

Fld Ops. Mechanic. A. Martucci # 27971 reported discovering ~ 3 gallons of unknown oil on ~ 200 gallons of water. The crew took an oil sample (COC # DD08128) and hung an environmental tag # 239. Due to feeder constraints this cleanup will be conducted as assumed 50 − 499ppm. PCB. as per the shift Mgr.

FOD A. Martucci reported that there was also human waste in the hole. Clean Harbors was contacted and a tanker was dispatched to remove any liquids. A full crew will be available and on location at 07:00 to start the cleanup.

Lab Sequence Number: 04−01854−001 PCBs < 1 ppm

Clean Harbors tanker removed 1200 gallons of non−hazardous possible sewage liquid and was complete with that at 23:00

Mar−10−2004. Clean Harbors to be on location at 07:00 and I&A crew needed to pressure test TM−644 right after cleanup is complete.

Oper. Supvr Larry Sutherland 16840 reports transf failed to hold pressure and CFR. Clean Harbors on location conducting a partial cleanup.

Perugini reports Clean Harbor Environmental Cusco truck finished removing 4 yards of non−hazardous solid waste debris. The structure was double washed and rinsed. The final clean up is pending the removal of the defective transformer.

25−Apr−2004 05:30 hrs Flush mechanic Ed Cedeno reports CFS tanker removed 1940 gallons of liquid from the structure. Flush truck removed 600 lbs of non−hazardous solid debris from the structure. Entire structure was double washed with Bio−Gen 760. All waste water was removed by the CFS tanker. The defective transformer was removed and replaced. Environmental tag # 23936 was removed. Clean up is complete.

Map Identification Number 111 **NORTHBOUD SERVICE RD** **Spill Number: 0610701** **Close Date: 07/25/2007**
EXIT 4 MAJOR DEAGAN BRONX, NY TT−Id: 520A−0014−593

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 762 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: MAJOR DEEGAN EXWY
Revised zip code: 10451

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: DOAN CAFFERTY − NORTHBOUD SERVICE RD
Spiller Phone: (917) 882−7164
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: rmpiper
Contact for more spill info: DOAN CAFFERTY
Contact Person Phone: (917) 882−7164

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/21/2006		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

NEAR THE BROWNFIELD PROJECT− FOUND CONTAMINATION WHILE DIGGING FOR A SEWER LINE: TOOK SAMPLES AND STOCK PILED AND HAVE NOT REMOVED MATERIAL

DEC Investigator Remarks:

Sangesland left a voice message with Mr. Cafferty asking for more information on what contamination was found during this digging AND which Brownfields case this site is associated with. If this is part of a Brownfields project, this spill can be closed out and the project forwarded to that Brownfields manager here at the DEC.

This site is under separate contract and is nopt associated with the brownfield project. While digging excessive contamiantion was found. PID results were pinned at 2000ppb. Piper left message for chief Engineer of Deegan Project. MAzher Usmani−973−441−7225. requesting callback. need to send csl.

7/26/07− DEC Piper recieved and reviewed closure report. While diggigng a sewer contruction crew observed cont soil in trench. Trench was 110' long zx 8' wide x 15' deep. Cont soil was stockpioled and disposed of. 365 tons of soil was disposed of. ENdpoints revealed no VOC's and exceedances in SVOC's which is most likely due to fill material. A slab was put in the trench and a slab capped the trench. Closed. See e−docs if warranted.

Map Identification Number 112 **475 WALTON AVENUE** **Spill Number: 9512362** **Close Date: 02/11/2003**

475 WALTON AVENUE BRONX, NY TT−Id: 520A−0010−615

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (4)
Approximate distance from property: 982 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Fire Department	Notifier Name:	FIREFIGHTER REGAN	Notifier Phone:	
Caller Name:	FIREFIGHTER REGAN	Caller Agency:	NYC FIRE DEPARTMENT	Caller Phone:	
DEC Investigator:	TOMASELLO	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/03/1996		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	30.00	GALLONS	30.00	GALLONS	SOIL

Caller Remarks:

SPILL FOUND IN ROADWAY IFO HOSTOS COMMUNITY COLLEGE. UNKNOWN SOURCE. NO SEWERS. FIRE DEPARTMENT ON SCENE. NYC DEP NOTIFIED AND RESPONDING.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 113 **MANHOLE 4526** **Spill Number: 0012262** **Close Date: 08/17/2001**

EAST 153RD STREET+GERARD BRONX, NY TT−Id: 520A−0009−080

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1007 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: E 153RD ST / GERARD AVE
Revised zip code: 10451

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Affected Persons	Notifier Name:	SAME	Notifier Phone:	
Caller Name:	RICHARD ROACH	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	OKWUOHA	Contact for more spill info:	RICHARD ROACH	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/14/2001		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
OTHER	OTHER	1.00	GALLONS	1.00	GALLONS	SOIL
The following material(s) was dropped or revised by the NYS DEC. Call Toxics Targeting for more information						
OTHER PETROLEUM	UNKNOWN	1.00	GALLONS	0.00	GALLONS	

Caller Remarks:

THEY FOUND A SPILL IN THIER MANHOLE TREATED AS 50 TO 499 SPILL IS BEING CLEANED UP

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

E2MIS Notes 2/14/01: Flush mechanic Guarino found 1 pint of oil in mud area 2'x2'. No water in manhole. No sewer connection. No private property affected. No sewer or waterway affected. No smoke or fire. Clean up being done is being done as 50 − 499ppm. (MO 2/22/01)

Map Identification Number 114 **UNDER CONSTRUCTION** **Spill Number: 1400009** **Close Date: 12/14/2015**
500 EXTERIOR ST BRONX, NY TT−Id: 520A−0296−260

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1010 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: MATTHEW CARROL − FORMER AUTO PARTS
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: SXMAHAT
Contact for more spill info: MATTHEW CARROL
Contact Person Phone: (646) 606−2332

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/01/2014		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	UNKNOWN	0	UNKNOWN	SOIL

Caller Remarks:

soil contamination found in test results, no ust believed present, gw not affected

DEC Investigator Remarks:

4/7/14: Mahat T/C : Matthew Carrol (Tennen Environmental @ 646.606.2332 Ext: 103) mentioned that he has filed the BFA for the site and he will touch base with the Deparmtment once the application is processed.

12/14/15: Mahat DEC Mahat left a voice message to Mr. Carrol inquiring about the spill case update.

BCP Site: Application # C203071 (Crossed Referenced) BCP PM : Kyle Forster Spill case was called in as there was contamination during Phase II. Spill case will be address in BCP application. Spill case is closed in NYSDEC Spill Database.

Map Identification Number 115 **HOSTOS COMMUNITY COLLEGE** **Spill Number: 0800543** **Close Date: 06/24/2010**
500 GRAND CONCOURSE BRONX, NY TT−Id: 520A−0214−638
CUNY SYSTEM

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1021 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: DIAHANN MCFARLAND − HOSTOS COMMUNITY COLLEGE
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: RVKETANI
Contact for more spill info: MICHAEL VANDERHEIJDEN
Contact Person Phone: (914) 448−2266

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/14/2008		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

Caller Remarks:

DOING SOIL BORINGS CAME UPON CONTAMINATED SOIL

DEC Investigator Remarks:

CSL prepared and sent to Consultant:

Woodard and Curran Attn: MICHAEL VANDERHEIJDEN 709 Westchester Ave White Plains, NY 10604

04/24/08−Vought−Called Michael VanDerheijden (Ph:914−448−2266 Fax:914−448−0147) and left message to return call to DEC. Owners contact as per PBS (Frank Virone 718−518−4476). Vought sent and faxed CSL with one month due date to mail address as per PBS #2−452319:

Mr. Frank Virone Hostos Community College 500 Grand Concourse Bronx, NY 10451

DEC requires: 1)delineation of soil and groundwater contamination 2)collection of endpoint soil samples if excavation is performed 3)possible PBS update.

04/25/08−Vought−Received call from and spoke to Vanderheijden and data has not been received and product was present. Groundwater very shallow and some free product on groundwater. Depth to groundwater is one foot below grade. Sump five feet away and water in sump has been clean. Further action pending receipt of analyticals. Spill located in basement of building and spatial constraints may restrict excavation. Tank has been cleaned and filled with cement. Spill may be associated with an prior overfill. Tank that was abandoned was techinically as UST in a vault in a two teir basement and only access to tank is via manholes. PBS will be changed from temporarily out of service to permanently closed and PBS registration was submitted as per Vanderheijden. Possible action may include additional borings once analyticals are received. Report will be received within two months and deadline extended till June 27, 2008.

05/02/08−Vought−Received call from and spoke to Vanderheijden and he received letter with one month due date and requested letter extending till 6/27/08. Vought sent email to Vanderheijden with above notes from 4/25/08 extending deadline.

05/29/08−Vought−Received fax from Woodward and Curran (Van Der Heijden) dated 5/29/08. 10,000−gallon #6 fuel oil UST located in a very confined area surrounded by electrical and boiler equipment that services the entire building . UST was closed including removal of product and filling with concrete slurry to close in place on 3/25/08. Soil and groundwater samples collected adjacent to the tank and droplets of oil were observed floating on top of the water . Groundwater analyticals showed no detections of VOCs or SVOCs. Proposal to install three additional borings and redrilling of original sample locations in floor and performance of a bail down test to examine product recharge into borings. Once all reasonably recoverable petroleum product has been removed, CUNY will cease recovery backfill holes and notify the DEC .

DEC requires: 1)site plan 2)backfill holes only upon approval from DEC and absence of free product as opposed to reasbnably recovered.

Vought called Van der Heijden and explained above requirements and requested site plan before approval can be provided.

10/03/08−Vought−Received emailed site plan from Van Der Heijden on 6/11/08. Vought called Van Der Hiejden to clarify pumps adjacent to UST location on site plan. Site plan also has two proposed sampling locations instead of three location as per 5/29/08 proposal. Vought left message to return call. Vought received callback from and spoke to Van der Heijden and pumps adjacent to UST on site plan are sump pumps that have had no history of product detection however two sampling locations farther away from two sumps had prior history of free product in borings. Van Der Heijden will install three to four additional borings to confirm the presence/absence of product and collect groundwater samples in locations of prior borings and assumed downgradient locations. Vought sent letter approving of 5/29/08 proposal with cc to Van Der Heijden.

07/27/09−Vought−Received call from John Virgie (Obrien and Gere−732−225−7380) and they will be replacing Woodward and Curran (former consultant) and they will be implementing scope dated 5/29/08 but only difference will be wells be installed instead of borings. DEC will receive report by 11/15/09.

6/11/10−Vought−Spill transferred from DEC Vought to DEC Ketani as per DEC Austin and Vought transfer to Section A.

6/14/10 − Raphael Ketani. On 8/6/09, a letter was received from O’Brien & Gere confirming discussions between Mr. Vought and Mr. Virgie regarding the proposed subsurface investigation. On 8/10/09, a letter was received from O’Brien & Gere which had the same content as the 8/4/09 letter, but with the addition of an LSIR submission date and a remediation report submission date.

Mr. Vought had received the 11/6/2009 Limited Subsurface Investigtion Report (LSIR) on 11/9/09. I reviewed the report today. The three groundwater samples were all non−detect for SVOCs and VOCs. The seven soil samples were non−detect for VOCs and almost entirely non−detect for SVOCs. The soil sample from MW−3 at 4 to 6 feet had a series of very low SVOC hits (some of which were exceedences for the benzo group of analytes), but the concentrations are not typical of oil contamination. I tried to contact John Virgie of O'Brien & Gere (732) 225−7380 regarding the report and the need to do a boring at each end of the tank, but I could only leave a phone message.

6/15/10 − Raphael Ketani. I tried to contact Mr. Virgie on his cell (609) 306−0509 regarding the site investigation, but could only leave a message.

6/17/10 − Raphael Ketani. I tried to contact Mr. Virgie regarding the site investigation, but could only leave a message.

Mark Randazzo of O'Brien & Gere (781) 883−6432 called in response to my attempt to contact Mr. Virgie. He said that he started the project and usually works on the CUNY site. He said that he is familiar with the project. I asked him why borings were not done at the ends of the tank as there seemed to be enough room to get some equipment to these locations. Mr. Randazzo said that he wasn't sure why. However, he said, the borings and wells that were installed were in an area that was lower than the tank and downgradient. Mr. Randazzo said that he will look at the project again and get back to me.

6/18/10 − Raphael Ketani. Mr. Randazzo called me back. We discussed the site and the presence of droplets of oil in the 2008 groundwater samples. He stated that O'Brien & Gere will bring the matter to the attention of staff at Hostos Community College regarding attempting to install two temporary wells (one at each end of the tank). The most contaminated soil sample would be taken from each boring and a groundwater sample.

6/23/10 − Raphael Ketani. Mr. Randazzo sent me the following e−mail today:

O'Brien & Gere respectfully requests that you reconsider your request for additional soil borings and temporary wells in the area of the UST, based on the following:

− wells were installed hydraulically downgradient from the UST and no oil was found; − No. 6 oil is characteristically not very mobile; − when the building is taken down, any limited LNAPL present in the area of the tank will be removed; − the sub−basement sump near the UST was found to be free of No. 6 oil; and − according to Hostos personnel, utility drawings in direct vicinity of the tank, electrical equipment, and pump area are not available.

Based on this information we ask that you reconsider this request and close the spill number.

6/24/10 − Raphael Ketani. As the product lost is #6 oil which has a low concentration of volatile components, if any, and as no oil has been seen in the groundwater during 2009, and as there are no plans to show where the electrical lines are next to the tank − which poses a safety concern for drilling through the floor in the tank room, I am closing the spill case.

Map Identification Number 116 **CANDLEWOOD AUTO MALL** **Spill Number: 0613549** **Close Date: 07/02/2008**
676 GRAND CONCOURSE BRONX, NY TT−Id: 520A−0013−557

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1023 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: KEDARI REDDY − CANDLEWOOD AUTO MALL
Spiller Phone: (347) 245−0121 ext. C
ext: CELL
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: hrpatel
Contact for more spill info: KEDARI REDDY
Contact Person Phone: (347) 245−0121 ext. C
ext: CELL

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/12/2007		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
WASTE OIL/USED OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

NY CITY DEPT. OF TRANSPORTATION ACQUIRED ABOVE PROPERTY AND UPON INSPECTION ON 3/12/07 THERE WERE SEVERAL ABOVE GROUND STORAGE TANKS, (14) 4 OF WHICH WERE BEING USED:

CONTAINING WASTE OIL. THERE APPEARS TO BE SOME MATERIAL ON GROUND BENEATH THE TANKS, AND IN THE AREAS SURROUNDING THE TANKS. ALSO ON FLOOR OF BASEMENT:

CONDUCTING PHASE TWO TO INVESTIGATE IMPACTS AND WILL INSPECT TANKS TO INSURE NO LEAKS, ALSO PLAN TO CLEAN UP AREA:

DEC Investigator Remarks:

03/19/07−Vought−Off hours repsonder. Vought and spoke called Kedari Reddy and site was acquired through condemnation. 14 (250−gallon)waste oil tanks located onsite registered on PBS. Oil and water on concrete in some areas of basement. Contractors performed soil borings and results will be in in two weeks. Reddy will perform site visit and if tanks are leaking they will be emptied immediately. Current operations include car wash and car lube. Letter should be sent to:

current operator is:

Cutlass Enterprises, Inc. Candlewood Auto Mall 676 Grand Concourse Bronx, NY 10451 Ari Yemini **site leasee** Ph. (516) 539−1212

Kedari Reddy NYC Department of Transportation 40 Worth Street Room 1015 New York NY 10013 PH. (212) 442−7721 Fax (212) 442−7072 email: kreddy@dot.nyc.gov

Reddy requested two month deadline. Reddy requested copy of PBS registration.

DEC requires: 1)updated registration 2)delineation of soil contamination. Vought sent letter with requirements and two month due date.

05/04/07−Vought−Received call from Kedari and subsurface investigation will be submitted, preliminary results show slight contamination. Kedari performed site visit and operator cleaned floor. Kedari said no signs of staining however signs of tank overfill in tank area and some connections between USTs may be clogged resulting in numerous spills on concrete however soil borings show only slight contamination. Records being collected for submittal of PBS registration and operator being contacted for registration. Extension for another two months granted to 7/19/07 as contamination is slight and DEC will be notified if soil analyticals show excessive contamination. PBS unit in DEC Albany has been contacted and registration will be submitted ASAP.

07/12/07−Vought−Received call from Robert Pantony (Action 516−781−3000 fax:516−781−3085). As per Pantony some tanks hold clean oil and some are for waste oil and PBS registration will be submitted. Four of the tanks will be removed as per the repair shop request. Floor will be drained and speedy dry will be removed. DEC requires before and after photos of cleanup and also statement of condition of concrete and disposal manifests. Delineation of soil contamination not required to date pending submission of report and description of concrete.

8/3/07 − Austin − Transferred from Vought to Patel for further review and action − end

08/17/07−Hiralkumar Patel. this case includes two sites:

1. 670 Grand Concourse

2. 676 Grand Concourse: alt. addresses: 671−677 Concourse Village west, 175 E 153rd Street. from propertyshark, site found as either a gas station or garage.

found PBS record on 676 Grand concourse site. PBS #: 2−601491. according to PBS record, site has six active 275 gal ASTs (on legs/saddles). four ASTs for Lube oil and two for waste oil. also site had six 250 gal ASTs (on legs/saddles), which were removed in July, 2007.

received subsurface investigation report dated May 2007. abstract:

− completed subsurface investigation for the properties located at 670 and 676 Grand Concourse, Bronx. − total 14 borings were advanced − boring B−1 to B−6 were completed at 20 ft bg, boring B−7 and B−8 were completed at 14 ft due to refusal, boring B−9 through B−11 were completed at 30 ft bg, boring B−12 and B−13 were completed at 5 ft and boring B−14 was completed at 3 ft due to

refusal − one surface soil sample was collected from each boring as a composite of the 0 to 5 ft depth (0−3 ft for B−14). additional soil samples were collected at deeper depths from each boring based on field observations (except from boring B−12 to B−14) − geophysical survey did not identify any subsurface anomalies indicative of USTs beneath or outside of the former plastic operation at 676 Grand Concourse − a subsurface anomaly consistent with a possible 275 or 500 gal UST was identified beneath the sidewalk adjacent to the south wall of 670 Grand Concourse, immediately north of E. 153rd Street − subject property is approx. 70 ft above mean sea level − based on topographic map, groundwater is expected to be located approx. 40 ft bg. − regional groundwater flow in the vicinity of the site is expected to be to the SOUTHWEST towards the Harlem River <−−−−−−−−−− − from 14 samples, found heavy SVOC contamination in sample from boring B−11 at depth of 10−15 ft bg. − boring B−11 is crossgradient sample from suspected anamoly, based on expected groundwater flow direction (which is southwest direction)

−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−B−11−−−−−−−−−−−limit

(10−15 ft bg) Naphthalene−−−−−−−−−−−−−−−−−−−−−−44,200−−−−−−−−−−13,000 Benzo(a)anthracene−−−−−−−−−−−−−−−17,500−−−−−−−−−−−−−224
Chrysene−−−−−−−−−−−−−−−−−−−−−−−17,600−−−−−−−−−−−−−400 Benzo(b)flouranthene−−−−−−−−−−−−−14,000−−−−−−−−−−−1,100
Benzo(k)flouranthene−−−−−−−−−−−−−−8,000−−−−−−−−−−−1,100 Benzo(a)pyrene−−−−−−−−−−−−−−−−−−−15,300−−−−−−−−−−−−−−61
Phenanthrene−−−−−−−−−−−−−−−−−−−−87,200−−−−−−−−−−50,000

− boring log showes brown to light tan, fine to medium sand at depth of 10 to 15 ft bg at boring B−11. <−−−−−−−−−−−−−−−−−−

found heavy SVOC contamination at 10−15 ft in boring B−11, but no VOCs. next close crossgradient sample from suspected anamoly was from boring B−9, which had same kind of soil at 10−15 ft bg, but no contamination found.

08/28/07−Hiralkumar Patel. left message for Ms. Reddy at NYC DOT. received call from Ms. Reddy. construction will start next year and that will be surface construction, no deep excavation has planned. Ms. Reddy mentioned that they can do further investigation during construction activity next year.

investigation shows only SVOC contamination (including Naphthalene) at 10−15 ft and from soil boring logs, no PID readings found higher that PID reading at 10−15 ft depth. and no groundwater encountered in any borings, which concludes that contamination is currently contained inside soil and groundwater is not affected. <−−−−−−−−−−−−−−−

01/08/08−Hiralkumar Patel. received call from John Santos (212−513−0130) from DOT from environmental compliance unit. he asked for no further action letter for site 676 Grand Concourse. asked him to finish delineation and remediation around previous boring B−11 as that site (670 Grand Concourse) also be owned by same owner as 676 Grand Concourse. John will call back with schedule for demolition and excavation at 670 Grand Concourse.

01/09/08−Hiralkumar Patel. discussed with DEC Austin. he asked for complete delineation and remediation around previous boring B−11 and suspected tank, before issuing no further action letter. he mentioned that initial report was made including both parcels (670 & 676) and case will be closed once necessary work done at both parcels.

01/10/08−Hiralkumar Patel. DEC Vougth gave report prepared by Action Remedation. this report contains cleanup activities in basement at parcel # 676. spill happened from overfilling of four 275 gal ASTs. after cleanup, found floor in good condition and no floor drains. Action remediation requested no further action letter based on this report.

received call from Ralph Pantony (516−781−3000) Action Remediation. explained him that as initial case and soil investigation

done including both parcels, the department can't issue no further action letter for one parcel only. asked him to investigate around previous boring B−11 and suspected tank under sidewalk.

01/11/08−Hiralkumar Patel. spoke with Ms. Reddy. she asked for letter from the department confirming that no contamination observed at 676 Grand Concourse.

01/14/08−Hiralkumar Patel. discussed with DEC Austin. spoke with Ms. Reddy. asked her about owner and operator of 670 Grand Concourse. she mentioend that currently NYC DOT is property owner for site at 760 Grand Concourse.

sent letter to Ms. Reddy and owner of Cutlass Enterprises, Inc. stating that submitted documents states no contamination at 676 Grand Concourse. also mentioned to delineate and remediate soil contamination at 670 Grand Concourse. sent copy of letter to Ms. Reddy and Mr. Pantony (Fax: 516−781−3085) at Action remediation.

01/24/08−Hiralkumar Patel. met Ms. Reddy, Adnan Zaheer (212−487−7812, azaheer@dot.nyc.gov) and John Kurre (212−788−2083, jkurre@dot.nyc.gov) from NYC DOT. as per Mr. Zaheer, construction engineer, they will excavate to depth of 4 ft only below street level and will backfill basement at 670 Grand concourse. due to access problem, they haven't done any investigation at 670 Grand Concourse and had only sidewall samples. Mr. Kurre mentioned that Phase I done at site. asked to submit Phase I for parcel # 670. asked Ms. Reddy to contact person who did GPR to find out approximate depth of anamoly under sidewalk, if possible. and if anamoly is shallow, then they will open sidewalk to confirm whethere it is tank or not. and if tank, will remove it, if possible. if anamoly is deeper then asked them to do soil borings around tank to depth of atleast 20 ft below street level. also asked to inspect basement at parcel # 670 for any storage for oil or other chemicals. there is an elevator company at site at 670 Grand Concourse. asked Ms. Reddy to submit contact info for operator at elevator company. asked Ms. Reddy to complete soil investigation prior to construction starts, so if any remediation required, it could be done before any construction.

01/28/08−Hiralkumar Patel. received contact info for operator at 670 Grand Concourse.

Brink Elevator Corp. **operator at 670 Grand Concourse** D/B/A Herk Elevator Co., Inc. Donnie P. Morrelli Ph. (718) 993−0600 Fax (718) 993−7583 email: brinkelevator@aol.com

Bob Gottlieb **attorney for Brink elevator** Ph. (212) 422−4000 Ext. 18

tried number for Brink elevator, but no repsonse. sent email to Ms. REddy to check numbers again.

left message for Mr. Gottlieb.

01/29/08−Hiralkumar Patel. visited site. met employee (who refused to give their names) at Brink elevator. found one tank enclosed in concrete vault, inside basement. gauge was not working. no oil stains found around tank or boiler. basement floor found in good condition, inside tank room area as well as in storage area. no other tanks found at site at 670 Grand Concourse.

visited site at 676 Grand Concourse also. found total of 14− 275 gal tanks. six were disconnected and eight tanks were in−use. no oil stain found on floor. car wash operation has been ceased.

spoke with Donnie Morrelli at Brink elevator. he is tenant at building and NYC HPD was owner prior to NYC DOT. as per Mr. Morrelli, city was maintaining building and ordering oil for tank system. as per MR. Morrelli, it is 1000 gal tank.

spoke with Ms. REddy. asked her to find whether city was operating and maintaining tank system, as required tank system test.

02/04/08−Hiralkumar Patel. received reports from NYC DOT.

abstract of Phase I report for 676 Grand Concourse:

− phase I done in May 2005 − subject property is built full with a partial two story plus basement structure − Cutlass Enterprises, inc. currently occupies the western portion of the site and operates a car wash and vehicle maintenance operation − western portion of subject property includes a second floor that is occupied by a church and office space − majority of eastern portion of the subject property along concourse village west is currently not in use and, according to current owner, was once occupied by a plastics manufacturing operation − suspect vent pipes and possible fill port were observed attached to the exterior northeast wall of the former plastic area − two additional suspect vent pipes are located along the exterior eastern wall of the former plastic manufacturing area between the two bay doors along concourse village west. − petroleum or chemical like staining was apparent at some areas of the walls and floors − a pipe trench system exists in the floor of this area that was observed to contain water and a petroleum like sheen − EPM conducted soil and groundwater sampling in 2000 in the Metro−North railroad storage yard adjacent to east of the subject property; relatively low concentrations of SVOCs were detected in some of soil samples; no significant groundwater contamination was detected <−−−−−−−−− − URS corp. conducted soil and groundwater sampling in 2001 at a former Metro−North property located at 3001 Concourse Village EAst (northeast of subject property) on behalf of the NYC School construction authority; groundwater found contaminated at this school site (spill reported as found groundwater contaminated. spill #: 0105833. spoke with Srinivas Kanaparthi 718−472−8620 at NYC school construction authority. he mentioned that site is under Brownfield cleanup program. C203030) <−−−−−

as per Phase I for 670 Grand Concourse, only recognized condition found was 1080 gal #2 tank in basement.

02/13/08−Hiralkumar Patel. spoke with Ms. Reddy. they are currently working to hire contractor for soil investigation and tank test at 670 Grand Concourse. mentioned to Ms. Reddy about suspect vent and fill box at former plastic factory area in 676 Grand concourse. the department may requires soil investigation at former plastic factory area also.

03/25/08−Hiralkumar Patel. left message for Ms. Reddy. received call from Ms. Reddy. contractor did soil delineation inside and outside of 676 Grand concourse. will submit report by end of April, 2008.

05/16/08−Hiralkumar Patel. received investigation report from EPM. abstract:

− three soil borings (B−15, B−16 and B−17) advanced at 670 grand concourse (nearby previous boring B−11 and suspect anomaly) − boring B−15 advanced to four ft below concrete sub−basement floor at 670 grand concourse in the vicinity of AST − boring B−15 was completed at 25 ft bg and was located east of previous boring B−11, mid−way between B−11 and a previously suspected UST − boring B−17 was completed to 25 ft bg and was located immediately south of suspect UST − later determined that the suspect UST anomaly identified under sidewalk by GPR was due to underground piping entering the building at 670 grand concourse − one composite sample was collected from B−15 and three composite samples were collected from each of boring B−16 and B−17 − groundwater is expected to be located at least 50 ft bg <−−−−−−−−− − no contamination found in any samples

discussed with DEC Vought. he suggested for Sesitive Receptor Survey as school is located across (and possibly down gradient from) Grand Concourse.

05/20/08−Hiralkumar Patel. spoke with Ms. Reddy. asked her to perform sensitive receptor survey. also asked her to submit tank test result.

sent letter to Ms. Reddy requiring submission of exposure assessment. letter emailed to Ms. Reddy alongwith requirement of tank test for tank located at 670 Grand Concourse.

06/19/08−Hiralkumar Patel. received call from Ms. Reddy. they will submit exposure assessment report with tank test by 07/10/08.

07/02/08−Hiralkumar Patel. received exposure assessment report from DOT.

based on all available reports, case closed.

Map Identification Number 117 **EQUINOX X 149 ST OF DEGAN** **Spill Number: 9611101** **Close Date: 01/10/1997**
475 EXTERIOR STREET BRONX, NY TT−Id: 520A−0008−573

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 1064 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: SAME
Spiller Phone:
Notifier Type: Local Agency
Notifier Name: TOM MILURA
Notifier Phone: (212) 219−5040
Caller Name: LUCE
Caller Agency: NYS DEC
Caller Phone: (718) 482−6454
DEC Investigator: O'DOWD
Contact for more spill info: UNK
Contact Person Phone:

Category: Known release which created a fire/explosion hazards (inside or outdoors), drinking water supply contamination, or significant releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/03/1996		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
LITHIUM	OTHER	0	GALLONS	0	GALLONS	SURFACE WATER

Caller Remarks:

MATERIAL IS POSS LITHIUM BROMIDE − NON PUTRESSALE SOLID WASTE FACILITY − NYC DOS INSPECTOR MILURA OBSERVED AN UNKNOWN SUBSATNCE RUNNING FROM FACILITY INTO HARLEM RIVER − POSSIBLY LIHTIUM BROMIDE SPILL FAXED FROM REGION 2

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

REFERRED TO NYCDEP.
1/10/97 DEC SOLID WASTE ISSUED VIOLATIONS AGAINST EQUINOX FOR ACCEPTING WASTE THEY WEREN'T PERMITTED FOR, FACILITY WAS CLOSED, THEY WERE ALSO REQUIRED TO PROPERLY DISPOSE OF THE WASTE.

Map Identification Number 118 **PIER # 4 BRONX TERMINAL M** **Spill Number: 0609955** **Close Date: 10/10/2007**
EAST 150TH BRONX, NY TT−Id: 520A−0014−592

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (5)
Approximate distance from property: 1091 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: E 150TH ST
Revised zip code: 10451

Source of Spill: UNKNOWN
Spiller: REBECCA DARR − PIER # 4 BRONX TERMINAL M
Spiller Phone: (718) 344−3853 ext. C ext: CELL
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: SFRAHMAN
Contact for more spill info: REBECCA DARR
Contact Person Phone: (718) 344−3853 ext. C ext: CELL

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/01/2006		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

SOIL SAMPLES SHOW CONTAMINATED SOIL , GROSSLY CONTAMINATED PETROLEUM SOIL: AN APPARENT HISTORIC SPILL , NO BURIED STORAGE TANKS:

DEC Investigator Remarks:

Sangesland spoke to Rebecca Darr with the city. They are building a city park on this pier and found contaminated soil. There

were NO petroleum tanks on the site. She believes this location was used to refuel trucks from an old surface tank. Problem is all due to spills of petroleum during fueling of trucks when this was an industrial facility. Langan Engineering will have this job by Jan 1, 2007 (Jason Hayes 212−479−5427) 06/21/07 Rahman− Email from Langan Engineering states below the remedial action plan:(in edocs, too) This email pertains to the remediation of petroleum−contaminated material associated with spill No. 06−09955 on Bronx Terminal Market Pier 4 near the intersection of Exterior Street and East 150th Street,Bronx, New York. Per our telephone conversation on April 30, 2007, which covered a review of site conditions and the progress of remedial activity, we have agreed to proceed according to the following: 1)Northern Portion of Pier 4 (previous investigation locations TP3,ETP0404, ETP0406 to ETP0408, PW5) − As we discussed, the remediation contractor has completed several test pits on the northern portion of Pier 4 in order to further investigate/delineate a light petroleum odor observed during previous investigation test pit excavations on the northern portion of the site. Observation of the previous investigation location test pits and adjacent area test pits show that the previously observed odor appears to have dissipated or was potentially due to old timbers observed in the excavations. We agreed that in previous investigation locations with the conditions described, we will document the conditions of each test pit (odor, visual, instrument readings) and collect a soil samples for laboratory analysis (TAGM 4046 volatile organic compounds and semi−volatile organic compounds) approximately 6−inches above the water table. Provided that the analytical results are consistent with historical fill in the area and no indicators of petroleum contamination (petroleum odor, petroleum staining, or elevated instrument readings) are observed, the area will be considered complete per NYSDEC spill remediation requirements. 2) Southern / Central Portion of Pier 4 − As we discussed, a test pit was also performed on the southern portion of Pier 4 in order to investigate/delineate findings from previous investigations. A test pit near previous investigation locations PW 6 and PB0604(W) found grossly−contaminated petroleum soil. We agreed that the area would need to be mass excavated to remove the petroleum−contaminated material, with the appropriate endpoint samples collected (base and sidewall) and submitted for analysis by TAGM 4046 volatile organic compounds and semi−volatile organic compounds. Previous groundwater samples at the site do not appear to show impacts from the observed petroleum contamination. As a result, no additional groundwater sampling will be performed and we do not anticipate the need for a chemical oxidation program. 3) Similar to the Pier 2 & 3 remediation, backfill of the remedial excavations shall consist of crushed 3/4−inch stone to approximately 1 foot above the water table, geotextile fabric on top of the gravel layer (to keep the soil backfill separate), and compacted soil to grade level.Site overburden soils not impacted with petroleum will be reused on−site as backfill where possible. All Soil brought on−site to be used as backfill will contain no exceedances of the NYSDEC Technical and Administrative Guidance Memorandum 4046 Recommended Soil Cleanup Objectives (TAGM 4046 RSCOs), which will be demonstrated by one composite soil sample per 1,000 cubic yards of backfill.(SR) 10/04/07 Closure report by Langan Engineering.As per Langan, all grossly contaminated soil identified within the bounds of the site was removed.Excavation completed one foot below the ground water table with the exception of the northwest section of the main excavation.Excavation proceeded to four feet below the groundwater table.4690 tons of petroleum contaminated soil were removed and disposed.Approx. 500 linear feet of impacted subsurface piping were removed and disposed.Harlem river shoreline surrounding Pier 4 showed no petroleum impacts.End point sample analytical results show no VOC exceedances were detected in the sample,SVOC exceedances typical of historic fill were detected in the sample.Details in report.Spill closed.(SR)

Map Identification Number 119 **BROWNFIELD PRO #C203015** **Spill Number: 0702081** **Close Date: 07/11/2007**
49 BRONX TERMINAL MARKET BRONX, NY TT−Id: 520A−0013−830

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 1151 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10451

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: DOANE CAFFERTY − BROWNFIELD PRO #C203015
Spiller Phone: (917) 882−7164
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: jbshapir
Contact for more spill info: DOANE CAFFERTY
Contact Person Phone: (917) 882−7164

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/21/2007		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	75.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

WHILE MAKING A DELIVERY DRIVER HIT A STEEL PIPE AND RUPTURED TANK: BEING CLEANED UP AND REMOVING TRUCK : DEC IS OVERSEEING SITE

DEC Investigator Remarks:

Brownfield case is being managed by J. Shapiro

7.11.07: Closed based on sample results submitted by consultant. Results are in eDocs.

Map Identification Number 120 **HARLHEM RIVER** **Spill Number: 0306776** **Close Date: 09/29/2003**
145TH STREET BRIDGE BRONX, NY TT−Id: 520A−0014−591

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 1197 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: 145TH ST
Revised zip code: 10451

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: NYC DOT
Spiller Phone:
Notifier Type: Local Agency
Notifier Name: BINAKIN PATEL
Notifier Phone: (212) 569−5100
Caller Name: BINAKIN PATEL
Caller Agency: NYC DOT
Caller Phone: (212) 569−5100
DEC Investigator: TJDEMEO
Contact for more spill info: BINAKIN PATEL
Contact Person Phone: (646) 235−1895

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Any Type of RP, Including No RP − DEC Field Response − Corrective Action Not Required or Not Possible

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/26/2003		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
CONSTRUCTION MATERIAL	OTHER	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

caller states that part of the construction decking under the bridge collapsed but nothing has spilled or fallen − the decking is just rotted out and is hanging from the bridge

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was DEMEO Non regulated material No spill

Map Identification Number 121 **RESIDENTS** **Spill Number: 1412201** **Close Date: 03/30/2015**
730 GRAND CONCOURSE BRONX, NY TT−Id: 520A−0306−392

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1249 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: PRIVATE DWELLING
Spiller: RIZZO − UNKNOWN
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: vszhune
Contact for more spill info: RIZZO
Contact Person Phone: (347) 465−1112

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/28/2015		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	40.00	GALLONS	0.00	GALLONS	
#4 FUEL OIL	PETROLEUM	40.00	GALLONS	0.00	GALLONS	

Caller Remarks:

caller reporting spill to concrete driveway, clean up is pending

DEC Investigator Remarks:

3/30/15−Zhune responded to this spill. Spoke to Mr. Rizzo the superintendent. As per Mr. Rizzo the oil company overfilled the tank. Aproximatelly 40 gallons of oil #4 came by the vent pipe and it went onto the concrete floor of the garage. No drain, no soil impacted. Riteway cleaned the spill. At the time of my inspection the spill spill was cleaned. There was drums with the contaminated material that they removed to clean the spill. I spoke to Anthony Lara from Rite way. He said they were on the way to remove the drums. Spill Closed.

Map Identification Number 122 **PRIVATE DWELLING** **Spill Number: 0910843** **Close Date: 02/19/2010**

710 GERARD AVE BRONX, NY TT−Id: 520A−0247−976

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1343 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	PRIVATE DWELLING	Spiller:	CHIEF ENERGY	Spiller Phone:	
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	SFRAHMAN	Contact for more spill info:	FAISSO ALDASARI	Contact Person Phone:	(917) 682−3008

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/06/2010		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	50.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

50+ GALLONS SPILLED ONTO SOIL AS A RESULT OF A TANK OVERFILL, NYC DEP HAZMAT ON SCENE FOR CLEANUP.

DEC Investigator Remarks:

Sangesland spoke to FAISSO ALDASARI from NYC DEP. He said approx 50 gal of oil came out vent line onto sidewalk, curb, down the block and into a storm drain. *** When did this happen? Why didn't the oil company call it in?**** *** Who will clean the storm drain?***

01/07/09 Responded to the site on 01/06/10 evening.Observed loose oil and speedy dry on sidewalk and along the curb. Strong odor of oil in that area.Oil travelled down the street and entered into a storm drain. NYC DEP Hazmat responded.I contacted Chief Energy,and asked them to hire a contractor.They hired Alliance Mechanical to do the clean up. Building Super told me the spill occurred while the driver was pumping oil through the fillport.Undetermined quantity.DEP estimated 50 gallon.Pictures in edocs.Building super did not provide me access to the tank room for an inspection.I spoke with the Building Manager,Ms.Malindaz and she told me to come back later on after the spill is cleaned up.Then I called an ECO for assistance and with ECO Nathan Favreau, inspection was done. A 3,000 gallon tank, cemented all over it with no weep holes located in the boiler room(PBS:2−114472).Observed oil in the sump by the boiler(pictures in edocs).Tank tightness testing required(anually−as the tank is unmetered).No PBS certificate was available in the building.Tank is reported as aboveground in the pbs certificate,fillport not color coded.Alliance cleaned up the spill on sidewalk and will go back to clean the storm drain.(sr)

02/19/10 Rec'd closure report from Alliance Mechanical.Alliance arrived at the scene on 01/06/10 evening and discovered that oil had travelled across sidewalk, into gutter and down to corner drain@ E 153rd Street.Contaminated sand and drysall were picked up. Tank was tested and weep holes were installed. Sump pump pit in the boiler room was cleaned up.Two soil samples were taken from the planter near fill box.Report in edocs.(sr)

Map Identification Number 123 **MANHOLE # 9489** **Spill Number: 0312991** **Close Date: 06/01/2004**
WALTON AVE EAST 144TH ST. BRONX, NY TT−Id: 520A−0009−114

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1376 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: WALTON AV / E 144TH ST
Revised zip code: 10451

Source of Spill:	UNKNOWN	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:	MR. ROHRER	Notifier Phone:	(212) 580−6763
Caller Name:	RON ELLIOTT	Caller Agency:	CON EDISON	Caller Phone:	(212) 580−6763
DEC Investigator:	SKARAKHA	Contact for more spill info:	RON ELLIOTT	Contact Person Phone:	(212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/25/2004		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
CABLE OIL	PETROLEUM	0	POUNDS	0	POUNDS	SOIL

Caller Remarks:

One Pint of cable oil was spilled in a manhole. Not sure of the source or cause. Cleanup has not been done at this time.

DEC Investigator Remarks:

e2mis 152227

25−Feb−2004 12:08 Oper Superv G.Meiers 14850 reports while on location to inspect MH−9489 associated with Fdrs X0/ Fdr2X12 discovered 1 pint of cable oil on 75 gallons of water. No smoke or fire is/was involved. No sewers, waterways, or private property affected. There is D−fault at that location and the associated feeder(s) need to be deenergized before the cleanup can commence. Env tag 31941 was placed and a pcb sample on DD08222 was placed.

Lab Sequence Number: 04−01403−001 PCBs < 1 ppm

Flush Mech O.Negron 18400 reports MH−9489 was double washed and rinsed and CFS tanker removed 950 gallons of non−hazardous liquid and will remain on location due to oil and water still coming through the ducts. The flush truck removed 8lbs. of solids to be brought to Hellgate pit for temporary disposal and the tag is still in place until the cable is repaired. The repair in that location is on poly cable and is not the source of the oil.

Operating Supervisor Joe McMahon, 14620, reports no oil is coming through ducts, clean water is coming from the ducts, the cable has been repaired, the tanker has been dismissed. There is no sign of source of oil remaining in the strucutre.

Map Identification Number 124 **VAULT # 3200** **Spill Number: 0508092** **Close Date: 12/01/2005**
231 EAST 149 ST NEAR PARK AVE BRONX, NY TT−Id: 520A−0010−008

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1525 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: 231 E 149TH ST
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: ERT DESK − CON EDISON VAULT #3200
Spiller Phone: (212) 580−8383
Notifier Type: Responsible Party
Notifier Name: PAUL DEDONOTO
Notifier Phone: (212) 580−6764
Caller Name: PAUL DEDONOTO
Caller Agency: CONED
Caller Phone: (212) 580−6764
DEC Investigator: GDBREEN
Contact for more spill info: ERT DESK‘
Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/06/2005		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
TRANSFORMER OIL	PETROLEUM	2.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

NO TO 5 QUESTIONS CLEAN UP PENDING DEENERGIZING : CONED # 161408

DEC Investigator Remarks:

161408.000

06−Oct−2005 11:45. Outside Plt Mech A S. Robinson 86427 reported while on location for a repairs discovered 2 gallons of transformer oil in dirt and debris on the concrete floor of V−3200−Fdr 2X13. No smoke or fire is/was involved. No sewers, waterways, or private property affected. Env tag 40591 was placed and a pcb sample was taken on DD14039. Massive is needed to gain access to the location which is on the sidewalk. D. Rohrer 12788

Closed. 12−1−05. see eDocs. GB

Map Identification Number 125 **IN THE RIVER** **Spill Number: 0701308** **Close Date: 05/03/2007**
145TH STREET BRIDGE MANHATTAN, NY TT−Id: 520A−0102−435

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 1586 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: W 145TH ST
Revised zip code: 10037

Source of Spill: UNKNOWN
Spiller: NOT AVAILABLE
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: smsanges
Contact for more spill info: KAMBIZ RAIZI
Contact Person Phone: (718) 764−0698

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/01/2007		UNKNOWN	NO	

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	0	GALLONS	0	GALLONS	SURFACE WATER

Caller Remarks:

APPEARS TO BE OIL TRAVELING NORTH ON THE HARLEM RIVER; NOT CONTAINED OR CLEANED;

DEC Investigator Remarks:

City DOT building next to bridge saw a sheen seen on water − Coast Guard was notified

Sheen was approx 30 ft long and 10 ft wide. By the time DEC called, the sheen was breaking up. No action will be taken.

Map Identification Number 126 **HERLEM RIVER** **Spill Number: 0609701** **Close Date: 11/24/2006**
145TH STREET BRIDGE MANHATTAN/BRONX, NY TT−Id: 520A−0102−434

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 1586 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10037

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: KIEWIT− TULLY CONTACTING
Spiller Phone: (718) 764−0388
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: SFRAHMAN
Contact for more spill info: ASBDI HEDAYATI
Contact Person Phone: (646) 996−8566

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/24/2006		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	0	GALLONS	0	GALLONS	SURFACE WATER

Caller Remarks:

LOST 8 PIECES OF PRECAST CONCRETE; COST GAURD NOTIFIED AND WATER WAY SHUT DOWN; BARGE BEGAN TO TALE ON WATER; NOT YET CLEANED WHILE HAVE DIVERS TO RETRIVE PIECES;

DEC Investigator Remarks:

11/24/06 Rahman− No spill.

Map Identification Number 127 **U HAUL #803−68** **Spill Number: 0012172** **Close Date: 06/30/2003**
368 WALTON AVE BRONX, NY TT−Id: 520A−0007−333

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1660 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	REID RINER − U−HAUL		Spiller Phone: (602) 263−6647
Notifier Type:	Other	Notifier Name:	SAME		Notifier Phone:
Caller Name:	DAVID WINSLOW	Caller Agency:	ATC ASSOCIATES		Caller Phone: (212) 353−8280
DEC Investigator:	MXTIPPLE	Contact for more spill info:	REID RINER		Contact Person Phone: (602) 263−6647

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/23/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

Caller Remarks:

SOIL AND GROUNDWATER SAMPLES FROM ABOVE LOCATION REVEAL CONTAMINATION. CALLER HAS SPOKEN TO REGIONAL OFFICE 2 AND WILL FOLLOW UP WITH THEM.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIPPLE 6/30/03 TIPPLE UPDATING// SEE SPILL # 93−07897

Map Identification Number 128 **LINCOLN HOSPITAL AMBULANCE BAY** **Spill Number: 0912687** **Close Date: 08/19/2011**
234 EAST 149 BRONX, NY TT−Id: 520A−0249−055

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1701 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: 234 E 149TH ST
Revised zip code: 10451

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	SPRAGUE DIESEL		Spiller Phone:
Notifier Type:	Other	Notifier Name:			Notifier Phone:
Caller Name:		Caller Agency:			Caller Phone:
DEC Investigator:	smsanges	Contact for more spill info:	JOHN HEALY		Contact Person Phone: (347) 865−3201

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/05/2010		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	30.00	GALLONS	0.00	GALLONS	

Caller Remarks:

storm drain getting pumped out − rest of cleanup pending

DEC Investigator Remarks:

Cross Ref 0912680 has been closed out.

Sprague delivered diesel to an emergency generator tank at the hospital and over filled the tank. 30 gal came out the vent line and spilled to the ground and went into a city storm drain. Surface spill was cleaned quickly and most of the diesel was contained away from the drain. a small amount of diesel went down the city storm drain. DEP is on site and Hospital has hired Vinny at Island Tank (718−967−9424) to do cleanup.

Map Identification Number 129 **LINCOLN HOSPITAL** **Spill Number: 0204573** **Close Date: 12/02/2015**

234 E 149TH ST BRONX, NY TT−Id: 520A−0007−493

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1701 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10451

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Notifier Type: Responsible Party
Caller Name: ISAAC MUNGRA
DEC Investigator: HRPATEL

Spiller: ANTHONY J LARA − LINCOLN HOSPITAL
Notifier Name: ISAAC MUNGRA
Caller Agency: PETROLEUM TANK CLEANERS
Contact for more spill info: ANTHONY J LARA

Spiller Phone: (646) 772−7180
Notifier Phone: (718) 624−4842
Caller Phone: (718) 624−4842
Contact Person Phone: (646) 772−7180

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/30/2002		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

cleanup in progress

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was SANGESLAND 7/31/2002 − Sangesland spoke with Isaac at Petroleum Tank Cleaners (718−624−4842). PTC was doing some excavations around the stick valves of several buried tanks at Lincoln Hospital.

PTC has started excavations in the area and will continue with hopes of getting clean end point samples.

Tanks were probably tank tested recently. Sangesland will check PBS for the site.

8/2/2002 − Sangesland spoke with Isaac at PTC. He said they dug out quite a bit of contaminated soil, but didn't get it all. Because of the location of the excavation, PTC had to back fill the site with sand.

PTC says they found an old gasoline tank which was empty, but had not been closed out. This tank was located adjacent to the fuel oil tanks they knew about.

PTC was given direction to: 1) Delineate the site in 3−D. 2) Determine GW level and direction 3) Prepare & submit a remediation work plan

4) Process the documentation to properly close out the tank(PBS)

8/2/2002 − Mark Robbins contacted the DEC to say his firm (HydroTech 631−462−5866) was going to bid on doing a delineation/remediation at the site.

8/13/2002 Sangesland spoke with Mark Robbins. Mr. Robbins requested a letter from the DEC outlining the list of work required on this site. This is needed by the Hospital to process a purchase order.

4/29/2005 Sangesland spoke to Mark Robbins at HydroTech. They have 4 wells which have been under long term monitoring. Mark believes the site may be close to close out.

05/27/14−Hiralkumar Patel. with approval from DEC DeMeo, case transferred from DEC Sangesland to DEC Patel.

06/03/14−Hiralkumar Patel. visited site. met John Healy at the hospital. informed him about an open spill case. he has no knowledge of this case as he was not working at the facility in 2002. as per PBS record, the site has total of eight (8) active tanks. he mentioned that one 1(1) 10,000 gal diesel UST is located along E 149th Street. two days tanks (one 100 gal and one 275 gal) for diesel product are on building's roof. the remaining five (5) tanks (one 10,000 gal diesel and four 50,000 gal #2 fuel oil) are located underground, in front of the EMS entrance along Park Ave. found total of six (6) monitoring wells around the tank field along Park Ave. Mr. Healy mentioned that there was an old gasoline UST in area of fuel oil tank field. he will look for any environmental reports. asked him to check and sample existing monitoring wells at the site.

John Healy Sr. Stationary Engineer Engineering Department Lincoln Hospital 234 E 149th Street Bronx, NY 10451 Ph. (718) 579−5680 (O)

(347) 865−3201 (C) Fax (718) 579−4758 email: john.healy@nychhc.org

reviewed available documents:

− 1) 08/14/2002: DEC Sangesland sent letter requiring complete delineation and submission of RAP.

2) 09/10/2002: Subsurface Investigation Report: − prepared by HydroTech − five USTs (4 − 50,000 gal fuel oil, 1 − 10,000 gal diesel) are situated beneath the asphalt parking lot to the west of emergency room − boiler plant is situated to the south of the parking lot − all five tanks are situated in north−south direction − a former dispenser is situated on top of a concrete island that is located to the north of the 10,000 gal diesel tank − PTC was contracted to replace direct fill pipes associated with each UST − identified petroleum impacted soil during the installation of fill pipes for diesel UST − impacted soil extended to at least a depth of 8 ft bg − a soil sample was collected for fingerprint analysis; result indicated that the petroleum most closely resembled fuel oil 1 with a very slight presence of gasoline − subsurface investigation conducted in Aug. 2002 − installed four soil borings (SP−1 through SP−4) − boring SP−1 was installed to 16 ft bg, where refusal was encountered − borings SP−2, SP−3 and SP−4 were installed to 20 ft bg; no refusal encountered in these borings − found PID readings between 463 and 693 ppm from 0 to 16 ft bg in SP−1; maximum PID reading found at 16 ft bg where refusal encountered − in SP−2, found PID reading of 382 ppm at 16−18 ft bg and 189 ppm at 18−20 ft bg − in SP−3, found PID readings between 289 and 628 ppm from 8 to 18 ft bg; 24 ppm recorded at 18−20 ft bg − in SP−4, found PID reading of 486 ppm at 14−16 ft bg and 102 ppm at 16−18 ft bg − total five soil samples were collected (two from SP−1, and one each from SP−2, SP−3 and SP−4) − water table was identified at 12 to 16 ft bg

−−−−−−−−−−−

soil analyticals:

−−−−−−−−−−−−−−−−−−−−−−−−−−−SP−1−−−−−−−SP−1−−−−−−−−−SP−3−−−−−−−−SP−4

6−8 ft

14−16 ft

16−18 ft

14−16 ft Benzene−−−−−−−−−−−−−−−−−−−2,500*−−−−−−−500*−−−−−−−−−133 Toluene−−−−−−−−−−−−−−−−−−14,264−−−−−−4,377
Ethylbenzene−−−−−−−−−−−−−21,926−−−−−−3,700−−−−−−−−1,733 Xylene−−−−−−−−−−−−−−−−−−235,404−−−−−34,344−−−−−−−−−1,165−−−−−−−3,304
1,2,4−Trimethylbenzene−−148,000−−−−−23,700−−−−−−−−1,229−−−−−−−4,390
1,3,5−Trimethylbenzene−−−67,355−−−−−−7,236−−−−−−−−−−222−−−−−−−1,853
Naphthalene−−−−−−−−−−−−−−39,890−−−−−−3,987−−−−−−−−7,059−−−−−−−2,428 MTBE−−−−−−−−−−−−−−−−−−−−−−2,500*−−−−−−−500*−−−−−−−1,324

* − higher detection limit

3) 10/22/2003 − Sep. 2003 Monitoring Report: − two monitoring wells (MW−1 and MW−2) were monitored bi−weekly − no product found

4) 11/11/2003 − Oct. 2003 Monitoring Report: − two monitoring wells (MW−1 and MW−2) were monitored bi−weekly − no product found

5) 12/05/2003 − Nov. 2003 Monitoring Report: − two monitoring wells (MW−1 and MW−2) were monitored bi−weekly − no product found

6) 01/27/2004 − Dec. 2003 Monitoring Report: − two monitoring wells (MW−1 and MW−2) were monitored bi−weekly − no product found

7) 03/23/2004 − Feb. 2004 Monitoring Report: − two monitoring wells (MW−1 and MW−2) were monitored bi−weekly − no product found
−

06/16/14−Hiralkumar Patel. 1:07 PM:− left message at HydroTech. 1:09 PM:− left message for Mr. Healy. 1:19 PM:− received call from Mr. Healy. he has contacted Hydro Tech for any available documents, but neither Hydro Tech nor property owner has any document related to this spill case. based on available information, informed Mr. Healy that the department requires collection and analysis of groundwater samples from existing monitoring wells. 2:02 PM:− sent email to Mr. Healy. asked him to submit results of groundwater samples and site−specific groundwater flow direction by the end of 07/18/14. email copied to Mark Robbins at Hydro Tech.

10/01/14−Hiralkumar Patel. 10:36 AM:− left message for Mr. Healy. 10:46 AM:− sent email to Mr. Healy including copy of email dated 06/16/14. informed him that the report must be submitted immediately. email copied to Mark at HydroTech.

10/07/14−Hiralkumar Patel. 9:33 AM:− received email from Mr. Healy stating that Hydrotech is no longer their vendor and he will contact Woodard & Curran.

11/18/14−Hiralkumar Patel. 1:08 PM:− left message for Mr. Healy.

11/19/14−Hiralkumar Patel. received email from Mr. Healy (at 10:07 PM on 11/18/14) including copy of quote from Woodard & Curran. he received quote yesterday and waiting for approval.

08/28/15−Hiralkumar Patel. alternate address: 212−268 East 149th Street, 415 Morris Ave, 419−541 Morris Ave, 2824 Park Ave, 201−219 East 146th Street, 410−448 Canal Place, 229−245 East 144th Street

PBS #: 2−327727. as per PBS record, the site has/had following tanks: − four (4) 50,000 gal #2 oil USTs, in−service, installed

in Sep. 1970 − two (2) 10,000 gal diesel USTs, in−service, installed in Sep. 1970 − one (1) 100 gal diesel AST in contact with impervious barrier, in−service, installed in Sep. 1970 − one (1) 275 gal diesel AST in contact with impervious barrier, in−service, installed in Oct. 2009 − one (1) 100 gal diesel AST on legs, removed in Nov. 2009

PBS registration expired on 08/28/2012. −−−−−−−−−−−−−−−−−−

other spills: 9208811, 9310375, 9515003, 0313236, 0912680, 0912687, 1206812, 1502628

spill #: 9208811 was reported on 10/30/1992 due to 3 gal #2 oil spill. case closed. spill #: 9310375 was reported on 11/26/1993 as 30 gal #6 oil spilled into sewer due to tank overfill. case closed. spill #: 9515003 was reported on 02/22/1996 as 30 gal #6 oil spilled due to truck malfunction. case closed. spill #: 0313236 was reported on 03/02/2004 as 50,000 gal #2 oil tank (tank # 4) failed a tightness test. tank was repaired and tested tight. case closed. spill #: 0912680 was reported on 03/05/2010 as 25 gal diesel spilled onto parking lot and storm drain due to overfill. case closed and referred to spill #: 0912687. spill #: 0912687 was reported on 03/05/2010 due to diesel spill onto parking lot and storm drain. case closed. spill #: 1206812 was reported on 10/10/2012 as 10,000 gal diesel tank (tank # 6) failed a tightness test due to loose gasket. case closed. spill #: 1502628 was reported on 06/09/2015 as 50,000 gal #2 fuel oil tank failed a tightness test. case still open. a TTF letter was sent on 06/16/2015.

1:02 PM:− spoke with Angelo (718−579−4645) in facility department. he mentioned that John Healy is no longer working at the site. he asked to contact Patrick Hallahan.

Patrick Hallahan Chief Engineer Ph. (718) 579−5680 email: patrick.hallahan@nychhc.org

1:05 PM:− left message for Mr. Hallahan. 1:11 PM:− spoke with Dave Krochko (914−448−2266) at Woodard & Curran regarding gw sampling activities. he mentioned that they never received signed proposal from the property owner and still waiting for reply. 2:53 PM:− called office of NYC Health and Hospitals Corp. for point−of−contact regarding the site. site representative asked to send letter to Mr. Raju's attention.

NYC Health & Hospitals Corp. 125 Worth Street New York, NY 10013 Attn.: Ramanathan Raju Ph. (212) 788−3321

3:20 PM:− sent letter to Mr. Hallahan and Mr. Raju including copy of letter dated 08/14/2002 and email dated 06/16/2014. asked them to submit report by the end of 10/16/15 including groundwater sample results and flow direction. also asked them to immediately renew PBS registration. letter emailed to Mr. Hallahan.

09/18/15−Hiralkumar Patel. 11:53 AM:− received message from Evan Trumpatori. he inspected site yesterday to verify location of each monitoring well. during inspection, he noted that five of the wells are actually stick lines for USTs. he only found two (2) 1−inch wells.

Evan Trumpatori Woodard & Curran Ph. (914) 294−2414 (O)

(631) 662−9991 (C) email: etrumpatori@woodardcurran.com

1:25 PM:− spoke with Evan. asked him to sample the two existing wells.

10/20/15−Hiralkumar Patel. received email from Evan (at 4:32 PM on 10/15/15) including sampling report. abstract: − the nearest surface body is the Harlem River, located approx. 1,800 ft west of the site − five of the seven reported monitoring wells were product level gauging ports for USTs − the remaining were 1−inch wells − no free product was present in either well − marginally elevated PID readings (6.5 ppm in MW−1 and 0.3 ppm in MW−2) were noted in both wells and petroleum odor was observed in well MW−2 − both wells were installed to a depth of approx. 20 ft bg − depth to groundwater was approx. 15 ft bg

−−−−−−−−−−−−−−−−−−− − few VOC compounds noted above limit (max. 46 ppb of n−Propylbenzene) − recommended installation of an additional monitoring wells to determine site specific groundwater flow direction

report includes google view of the site with two well locations, but does not include site sketch with tank systems and its gauging ports.

10:07 AM:− sent email to Evan and asked to submit a site sketch including tank systems, its gauge ports and existing wells. email copied to Leonard Balgobin (Leonard.Balgobin@nychhc.org), Dave Krochko (dkrochko@woodardcurran.com) and Michael Heijden (mvanderheijden@woodardcurran.com).

PBS registration has not been renewed yet.

10/23/15−Hiralkumar Patel. 9:22 AM:− received email from Evan including a google view. as per the submitted map, the north end of the four 50,000 gal tanks are under the existing building.

10/26/15−Hiralkumar Patel. 10:17 AM:− spoke with Evan and inquired him about position of north end of the four 50,000 gal tanks (under the building?). he mentioned that the google pic is old and currently there is a paved concrete area. so north end of the tanks are not under the building. asked Evan to submit a line drawing (with scale).

11/06/15−Hiralkumar Patel. 1:58 PM:− received email from Evan including a scaled site map.

12/02/15−Hiralkumar Patel. after discussing with DEC DeMeo, case closed based on available information (source removal, minimal impact to groundwater and no planned change of property use).

PBS registration has not been renewed yet.

2:01 PM:− sent spill closure letter to Mr. Hallahan. letter emailed to Mr. Hallahan and Evan.

also refer spill #: 1502628.

Map Identification Number 130 **215 E 144TH STREET** **Spill Number: 9304620** **Close Date: 06/20/1995**
215 E 144TH STREET BRONX, NY TT−Id: 520A−0008−153

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1715 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller:
Spiller Phone:
Notifier Type: Citizen
Notifier Name:
Notifier Phone:
Caller Name: JAMES
Caller Agency:
Caller Phone: (914) 686−8553
DEC Investigator: CAMMISA
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/13/1993	06/20/1995	UNKNOWN	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	UNKNOWN	0	UNKNOWN	SOIL

Caller Remarks:

GREEN LIQUID COMING FROM HOSE IN MIDDLE OF SIDE WALK SIDE STREET BETWEEN 10 AM AND 1700 − BEST TIME TO SEE THIS CALL JIM ABOUT 2:45 − DEP NOTIFIED.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 131 **PARKING GARGAGE** **Spill Number: 0606610** **Close Date: 09/12/2006**
751 CONCOURSE VILLAGE WES BRONX, NY TT−Id: 520A−0013−038

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1736 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: 751 CONCOURSE VILLAGE W
Revised zip code: 10451

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: STEWART RUBINFELD − PARKING GARGAGE
Spiller Phone: (212) 674−0950
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: SKCARLSO
Contact for more spill info: STEWART RUBINFELD
Contact Person Phone: (212) 674−0950

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/08/2006		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

DURING SOIL TESTING FOUND CONTAMINATED SOIL;

DEC Investigator Remarks:

09/12/06−Vought−Spill desk duty officer. DEC Andersen requested that spill be assigned to her due to fact that she has another spill open onsite and it requires long term remediation. Spill assigned to Andersen by Vought.

9/12/06: Spill consolidated with 05−51708.

Map Identification Number 132 **PS 156** **Spill Number: 9803142** **Close Date: 06/17/1998**
750 GRAND CONCORSE VIL W. BRONX, NY TT−Id: 520A−0009−992

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1865 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: 750 W CONCOURSE VILLAGE
Revised zip code: 10451

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: SUMMIT TRANSPORTATION
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: LOUISE
Notifier Phone: (212) 442−9823
Caller Name: SHIRLY SYMONDS
Caller Agency: ENVIOMENTAL PROTECTION
Caller Phone: (718) 595−6777
DEC Investigator: O'DOWD
Contact for more spill info: MISS OCONNOR (PRINCIPAL)
Contact Person Phone: (718) 292−5070

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/10/1998		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

APPEARS THAT A TRUCK OWNED BY ABOVE COMPANY TRUCK DOT#373936 WAS LEAKING A SMALL AMOUNT OF FUEL OIL LIC ON TRUCK AC696E (NJ) TRUCK #T744PF − MATERAL DROPPED IN FRONT OF SCHOOL − SUMMIT IS ON SCENE NOW DOING CLEAN UP

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

SPOKE TO MISS O'CONNOR,PUT LAYER OF SAND & DIRT DOWN
WILL CONTINUE TO SWEEP IT AND ABSORB IT UNTIL ABOUT MONDAY WHEN IT SHOULD BE GONE
KERRI O'DOWD WAS ALREADY THERE AT TIME OF THIS CALL BACK @ 3:47PM
CROSS REFERENCE TO SPILL NUMBER 9803123.

Map Identification Number 133 **381 CANAL PLACE** **Spill Number: 0306424** **Close Date: 10/23/2003**
381 CANAL PLACE BRONX, NY 10451 TT−Id: 520A−0012−090

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1872 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: PRIVATE DWELLING
Notifier Type: Affected Persons
Caller Name: JOHN SCHRETZMAYER
DEC Investigator: CESAWYER

Spiller: AARON MULLER − AARON MULLER
Notifier Name: SAME
Caller Agency: ASSOCIATED ENVIROMENTAL
Contact for more spill info: AARON MULLER

Spiller Phone: (718) 387−0980
Notifier Phone:
Caller Phone: (631) 744−8900
Contact Person Phone: (718) 387−0980

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/17/2003		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

Caller Remarks:

contaminated soil and water discovered from tank removal

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was SAWYER 10/23/03 1407 Hrs − Sawyer − Rp/Ap Only reported the spill, because DEC's Ed Rossan was on site to check PBS registration and it was same day they were in the process of removing the tank. There is a previous spill open at this address and all notes henceforth shall be under this spill #9903367.

Map Identification Number 134 **211656; MORRIS AVE AND E 153 ST** **Spill Number: 0814207** **Close Date: 08/17/2008**

MORRIS AVE AND E 153 ST NEW YORK, NY TT−Id: 520A−0248−077

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1914 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: MORRIS AVE / E 153RD ST
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	ERT DESK − CON EDISON	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	DMPOKRZY	Contact for more spill info:	ERT DESK	Contact Person Phone:	(212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/02/2008		UNKNOWN		

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	0	GALLONS	0	GALLONS	UTILITY

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 135 **YANKEE STADIUM PARKING LOT** **Spill Number: 0504523** **Close Date: 08/11/2017**
RIVER AVE/ EAST 157TH ST BRONX, NY TT−Id: 520A−0007−079

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1936 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: RAILROAD CAR
Notifier Type: Local Agency
Caller Name: BECKY KINAL
DEC Investigator: AAOBLIGA

Spiller: UNKNOWN − UNKNOWN, 3RD PARTY SPILL
Notifier Name: BECKY KINAL
Caller Agency: AKRF
Contact for more spill info: BECKY KINAL

Spiller Phone:
Notifier Phone: (914) 949−7336
Caller Phone: (914) 949−7336
Contact Person Phone: (914) 949−7336

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/15/2005		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

FOUND CONTAIMINATED SOIL IN A PARKING LOT. FOUND DURING INVESTIGSTION

DEC Investigator Remarks:

7/1/05. J.Krimgold spoke to Becky Kinal (AKRF) they did a Phase 2 for a potential buyer. She will submit analytical and a site map within next 2 weeks.

04/13/06− Case was transferred from Jake Krimgold to Koon Tang.

11/24/08 − Carlson: Emailed David Carlson at NYS Park Department (David.Carlson@parks.nyc.gov) to submit any sampling data they have completed. Received email from David Carlson − Parks Dept. project managers are Frank McCue (718−760−6676) and Patricia Clark.

12/3/08 − Carlson: Received Phase II workplan, but not final report. Final Phase II report must be reviewed before additional requirements can be determined.

12/12/08 − Carlson: Received Subsurface Phase II Investigation Report dated September 2005. VOCs and SVOCS noted in soil and groundwater. Geophysical anamoly noted in parking lot #6. Laboratory analyticals were not included in the copy of the report I received. Left voice message for Becky Kinal AKRF − can she submit laboratory analyticals?

12/15/08 − Carlson: Spoke to Becky Kinal at AKRF, requested lab analyticals and Phase 1 with Sanborns. She will contact Parks and get back to me.

Patricia Clark p 718.760.6718 e patricia.clark@parks.nyc.gov New York City Parks & Recreation Olmsted Center Flushing Meadow Park Flushing, NY 11368

12/24/08 − Carlson: Spoke to Becky Kinal, requested documents were sent to Patricia Clark at Parks. Left voice message with Patricia Clark to followup on status of requested documents.

1/7/09 − Obligado − This case was transferred from Carlson to Obligado as per Tibbe.

1/8/09 − Obligado − Spoke to Patricia Clark. No iminent plans to start construction. They are planning to first further investigate spill and then submit remedial strategy.

1/12/09 − Obligado − Sent Stipulation Agreement to Patricia Clark. Require signature within 30 days. RIWP required within 15 days of execution of Agreement.

1/23/09 − Obligado − STIP executed by Department.

1/27/09 − Obligado − Met Kevin McCarty of HDR on−site to recon site and discuss workplan. UPon arrival, contractors were performing GPR survey to locate potential utilities and former UST and piping locations.

2/17/09 − Obligado − RIWP received by Deparmtent

2/25/09 − Obligado − Completed review of RIWP and called Kevin McCarty of HDR. Provided some minor DEC required changes to workplan. He will resubmit the plan with the changes.

3/16/09 − Obligado − Completed review of modified RIWP. Sent approval letter to Patricia Clark at Parks and Rec with ec to Emil Martow (EDC).

6/2/09 − Obligado − Meeting between DEC (Obligado, Tibbe, Mattei, Brevdo, Harrington, Morenzi)HDR (Stowe, McCarty), NYCDPR (McCue), and NYCDPR Capital (Rowland). HDR presented the initial findings of the remedial investigations and proposed a conceptual RAWP for Air Sparge SVE for lot 6 and enhanced Bioremediation for Lot 5. They will submit a formal RI/RAWP. DEC asked

for the RAWP to include a remedial alternatives analysis. DEC requests a pilot test to confirm AS/SVE is viable.

7/13/09 − Obligado − Email from McCarty. They will submit Draft RAWP via pdf for comments.

8/3/09 − Obligado − Conference call with HDR Kevin Mccarty and DEC Obligado and Tibbe to discuss RAWP. DEC provided comments/revisions.

9/9/09 − Obligado RI/RAWP submitted.

9/25/09 − Obligado − Called McCarty to discuss a fiew comments on the RAWP

10/06/09 − Obligado − McCarty submists Addendum letter with some modifications. DEC Sends RI/RAWP approval letter. 11/6/09 − Obligado − I spoke with Kevin McCARty. When they were installing wells at Lot 5 they encountered a void at 11 ft. Possibly a tank They installed a shallow well and found product in it. They installed deeper well next to in down to the water and found product as well. They will install 6 more wells around the wells with the product, 5 feet away. they will start recovering product weekly.

11/16/10 − Obligado − Email from Kevin − they identified the product to be fuel oil.

1/5/10− Obligado − I met Kevin McCarty at the site with Frank McCue from Parks and Helen from DER. I inspected the area where the wells were. I asked Kevin to do test pits in that area to see what is down there, to confirm there are no tanks. They will schedule the work.

2/5/10 − Obligado − Email from Kevin, the test pit is scheduled for 2/8.

2/10/10 − Obligado − I received an email from Kevin. They did the test pits and there were indeed tanks. They found at least 3. I emailed Kevin back and requested a tank removal work plan to take the tanks out.

3/10/10 − Obligado − Kevin submits a tank removal work plan memo, describing the work that will be done.

3/11/10 − Obligado − Mark and I provided some comments on the work plan.

3/12/10 − Obligado − The work plan memo was resubmitted and addressed all my comments. They will begin on Monday.

4/20/10 − Obligado − HDR submits UST Removal Report.

5/12/10 − Obligado − DEC approves of UST Removal Report.

8/13/10 − Obligado − According to HDR the system installation is substantially complete. He request performing a 30 day start up test.

8/17/10 − Obligado − I approved the startup test.

9/6/10 − Obligado − I spoke with Kevin McCarty over the phone. Apparently, during the start−up test for the SVE/AS the carbon

drum overheated. Smoke started to eminate from the stack. The fire department respondeded. Kevin is trying to determine what caused the incident. He suspects excess of methane. They have sampled the effluent and the carbon in the drum to try to determine what the casue is and if there was some sort of chemical reaction that caused the heat generation. They will investigate and report back what the cause and and how to move forward.

10/20/10 − Obligado − I received an email from Kevin. ConEd confirmed that it found a substantial gas leak in a old gasline adjacent to the site. They have fixed the leak. They want to start the biotreatments on the Lot 5.

10/25/10 − I commented that I didn't have a problem with starting the biotreatments. I only wanted him to confirm that they will perform the biotreatments during park off−hours. I also commented that monthly gw sampling seemed like overkill and that I didn't expect to see significant changes in gw quality month to month.

12/2/10 − This spill has been reassigned to Brevdo

12/10/11 − This spill is reassigned back to Obligado

2/15/11 − Obligado − HDR submits a reviewd OMM plan. As requested the revised plan has a Methane Migitation plan to deal with potential elevated methane levels: Three additional thermal sensors were installed in the extraction enclosure. One LEL monitor has been installed on system exhaust to monitor adjacent to the temperature sensor to monitor methane levels. All monitors and sensors can be accessed remotely. The system monitor continues to be connected remotely to HDR for real−time readings. The temperature sensors mounted within the GAC beds have been set to automatically shut down the all system power if the temperature within reaches 150 degrees F. The LEL onitor has been set to automatically shut down all system power if readings are greater than 1% of the LEL (500 parts per million) above background (to be established during startup. LEL shutdown levels will be monitored and adjusted to the lowest possible level while maintaining system operation. Con Edison will be notified at least 2 weeks prior to starting the system. At that time they will be able to perform additional testing and monitoring in the area for evidence of additional gas leaks.

2/18/11 − Obligado − I Called Kevin MacCarty to discuss the plan. I told him the plan looked acceptable. The only comment I had was that I didn't think the AS system should be started first. I think they should run it on SVE only first, with outside air dilution in order to better monitor and control methane without the additional complexities of adding air sparge. Once the system stabilizes and is running properly without incident then they should start the air sparge. Kevin concurred and he emailed a confirmation with the recommended changes.

3/8/11 − Obligado − In response to my request, Angela STowe of HDR provided an updated Health and safety plan.

3/24/11 − Obligado − I spoke with Kevin McCarty. ConEd has located and repaired more than one gas leak location. Coned did a gas survey and the results are good for start−up. They will do another survey tomorrow and HDR plans to start the system if the survey shows no methane.

3/25/11 − Obligado − I visited the site for the 2nd attempt to restart the system. System was operating upon arrival. HDR is onsite and running the system on SVE only, with 40% fresh air dilution to make sure methane levels are low. No odors in the vicinity of the system were noticeable. System has automated shut off for LEL and temperature. According to HDR, these were tested and are functioning properly. Also, according to HDR, the system can be monitored remotely and shut off remotely if necessary. Angela Stowe of HDR shaid she would be dialing in to the system over the weekend to ensure it is running properly.

As of 4:15 pm, when I left the site the system was operating properly.

3/28/11 − Obligado − I emailed Angela Stowe and she confirmed that the system operated properly all weekend. She will provide a more detailed summary shortly.

4/20/11 − System shut down due to methane vapors

5/2/11 − Con edison reapirs leaks in the 157th street gas main.

9/29/11 − System restarted.

12/6/11 − According to HDR the system is down again. Con edison disconnected the power to the station. Need to drop a new service line for the station.

9/27/12− Obligado − Email from HDR − We still do not have power to the Lot 6 (skate park) AVE/AS system. The Con Ed lockout in the summer seemed to back things up with their schedules. I spoke with Paul DeBoccia of DeBoccia Electric this morning to get an update. Two weeks ago the electrician met with Con Ed at the site and Con Ed inspected the electrical conduit that runs from the manhole in the street to the electrical pull box in the parking lot where the electrical service is to be installed. It was determined the electrical conduit is in good shape and Con Ed will be able to run the wiring to the pull box (the wiring from the manhole to the pull box was removed when the original service was disconnected). Con Ed indicated they would provide an estimate to run the wiring to DeBoccia. DeBoccia will contact Con Ed tomorrow to determine the status of the estimate and schedule to make this hookup so DeBoccia can then make the connection to the SVE/AS system. We will let you know as soon as I get an update from DeBoccia.

8/28/13 − Obligado − I emailed HDR again to inquire about the system electrical issues.

12/19/13 − Obligado − I emailed Kay Zias to inquire about the system status. She replied DPR and HDR recently signed a contract for continuing the monitoring. Con Ed was on site with HDR this afternoon and a reconnection of the power is anticipated for next week. Monitoring should resume immediately thereafter.

12/31/13 − Obligado − I spoke with Sean Quarry, who is the new project manager for HDR. According to Sean, the electricity has been restored. The HDR contract still has not been finalized. Once they finalize the contract they will probably conduct a baseline sampling event and both sites. They will probably need to do some maintanence on the AS/SVE system due to the extended downtime. He will keep me advised. Both parks, quarterly sampling.

3/19/14 − Obligado − I emailed Sean Quarry to get an update on the site.

6/26/14 − Obligado − I met Mike Pantliano and Kay Zias at the site to discuss the restart of the remedial activities at the site.

7/14/14 − Obligado − According to Michael, the AS/SVE system has been restarted.

9/30/14 − Obligado − Reviewed an Update Report. The report documents baseline groundwater and vapor quality conditions prior to re−activation of the remedial system. The system on the skate park was started on July 14, and then restarted on July 22, aftersome troubleshooting. Groundwater samples were collected on July 8th. 23 gorundwater samples were collected. No free

phase product was detected in any site wells.

On the skate park, the maximum impacts were at MW8 with 6857 ug/L total VOCs. (Of note, in 2011, concentrations in this well were as high as 25,000 u/gl total VOCs) On the plyground the mazimum impacts were at B16 with 1814 ug/L total VOCs. this is a significant reduction since the well had over 6223 ug/L total VOCs in 2010. A bioremedial treatment occurred on August 12, 2014. The report recommends continued bioremedial treatment events on the playground and continued system O&M on the skate park.

7/6/15 − Obligado − Review quarterly report. System air effluent in compliance with standrads. With the excpetion of MW8, diminsithing concentrations of VOCs are shown over the short a long term. Concentrations of individual analytes above standards are per location are decreasing. According to the report, AS/SVE is operating normally during this reporting period. According to the trends graph, total VOCs in MW8 have decreased from 20,000 ppb in 2011 to 3500 ppb.

3/28/17 − Obligado − I reviewed the 9th Quarterly Progress Report−Closure request. The report recommends shutting down the system and discontinuing bioremedial treatments due to asymptotic groundwater concentration trends. I concurred with the recommendation. I did not approve of spill closure however, because as per DER−10, they need to do post remedial rebound monitoring to ensure contaminant levels do not rebound following cessation of active remediation. I sent a letter requiring 2 rounds of post remedial groundwater quality monitoring.

8/11/17 − Obligado − I have reviewed a Spill Closure Letter dated August 11, 2017. The letter documents the 2 remediation shutdown sampling events on May 30 and July 26, 2017. According to the report, the total VOC concentrations at the Site did not rebound following remedial system shutdown and have remained at asymptotic levels. Concentrations at MW−08, the most impacted well, continue to decrease. During the final sampling round, the maximum concentration of total VOCs at the site was 1,537 ug/L in MW8. Based on the documentation provided, the remedial actions at the site have significantly reduced contaminant levels. This spill has been remediated to the extent feasible and the site no longer poses a threat to human health or the environment. Spill closure based on:

1) All sources of contamination removed (5 USTs removed in 2010) 2) AS/SVE system operated until asymptotic recovery achieved 3) Free product removed to the extent feasible 4) Vapor barrier and cap installed on both parks 5) Post remediation monitoring demonstrate plume is continuing to attenuate naturally following system shut down. 6) Groundwater contamination not encountered north or west of the site indicating the plume is not migrating off site. 7) Spill no longer appears to pose a threat to human health or the environment.

Map Identification Number 136 **SPILL NUMBER 0306819** **Spill Number: 0306819** **Close Date: 09/29/2003**

E 157TH ST/RIVER AVE BRONX, NY TT−Id: 520A−0007−062

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1936 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Police Department
Notifier Name:
Notifier Phone: (646) 610−5580
Caller Name: OFFICER TAPIA
Caller Agency: NYC POLICE DEPT
Caller Phone: (646) 610−5580
DEC Investigator: TJDEMEO
Contact for more spill info: OFFICER TAPIA
Contact Person Phone: (646) 610−5580

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/29/2003		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

Police department discovered above material at above locatio. NYC fire department has been contacted and is responding. No further information available at time of call.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was DEMEO Duplicate report to spill # 0306814

This spill closed

Map Identification Number 137 **VAULT 5082 E 157TH ST &** **Spill Number: 0306717** **Close Date: 10/15/2003**
E 157TH ST & RIVER AV BRONX, NY TT−Id: 520A−0007−061

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1936 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: E 157TH ST / RIVER AV
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: MR BROWN
Notifier Phone: (212) 580−6763
Caller Name: ANDREW MORRIS
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: AERODRIG
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/25/2003		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	10.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

UNK OIL ON WATER IN VAULT − SAMPLES TAKEN − CLEAN UP PENDING − 200 GAL OF WATER − REF #150487

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was RODRIGUEZ e2mis no. 150−487:

25−Sep−2003 11:30hrs found ~ 10 gallons of what appears to be cooking oil & grease on ~ 200 gallons of water in the vault. There is no sump pump in this vault and the liquid is below the weep holes to the adjacent vault. Crew took an oil sample for PCB & ID.

Aroclor 1242 < 1.0 ppm EPA 608/8082 Aroclor 1254 < 1.0 ppm EPA 608/8082 Aroclor 1248 < 1.0 ppm EPA 608/8082 Aroclor 1260 < 1.0 ppm EPA 608/8082

Approval Status: APPROVED Approved By: James P. Hendricks Title: SUPERVISOR −−End of Report−− Search for Results at: http://q137lims/lims L Fischer 55784

26−Sep−2003 05:00 hrs Flush Mechanic Esham Gafur (19528) reports CFS tanker took 100 gallons of liquid from V−5082. Vactor truck took 1/2 yard of solid debris from structure. Entire area was double washed with Bio−Gen 406. All waste water was taken up by CFS tanker. There is no sump or sewer connection. There is no visible source of oil in the structure. Environmental tag 28617 was pulled. Clean up is complete. L Fischer 55784

03−OCT−2003 23:58 Lab Results: Page 1 of 1 10/03/2003 Consolidated Edison Environment, Health and Safety ChemLab NY Lab ID No: 10380 Lab Sequence Number: 03−07961−001 Date Approved: 9/25/2003 E2 Incident Number: 150487 Date Received: 9/25/2003 Chain of Custody ID: CC15090 Date Sampled: 9/25/2003

Submitter: LAWRENCE C SUTHERLAND Job Site: 157 ST & RIVER AVE Email To: SUTHERLANDL@coned.com−EA−ChemLabReports−BX−WEST−LAB RESULTS− Cc To: DL − BX/WEST EH&S C.C.− MCCABEJA@coned.com− NOTE: The Submitter shall post and/or provide these results to all employees working with or in the vicinity of this substance. This report shall not be reproduced, except in full, without the written consent of EH&S. Test results are representative only of submitted samples.

Oil Identification Analysis by NYSDOH 310−13 (Hydrocarbon Scan)

MATRIX: WATER&OIL GRAB LOCATION: 157 ST & RIVER AVE STRUCTURE: VAULT 5082 FEEDER ID: EQUIPMENT: NA SERIAL #: H389182

Insufficient amount of sample extracted to perform oil identification.

Map Identification Number 138 **SERVICE BOX** **Spill Number: 1711329** **Close Date: 06/11/2018**
325 EXTERIOR ST BRONX, NY TT−Id: 520A−0338−650

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1970 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL Spiller: DAVE DUKE − CON ED Spiller Phone:
Notifier Type: Other Notifier Name: Notifier Phone:
Caller Name: Caller Agency: Caller Phone:
DEC Investigator: RWAUSTIN Contact for more spill info: DAVE DUKE Contact Person Phone: (212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/13/2018		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
ANTIFREEZE	OTHER	3.00	GALLONS	3.00	GALLONS	UTILITY

Caller Remarks:

clean up is pending

DEC Investigator Remarks:

264819 3/13/18−Zhune spoke to ERT− David Duke. David said a service box. small manhole has green liquid in it. Thinking it 's antifreeze. Approximately 3 gallons from probably an unknown public car or truck. They took samples. The contractor will come to cleanup the structure (service box).

6/11/18 ˇ Austin ˇ Con Ed contained and cleaned up the spill in the service box; no isues in box after that cleaning ˇ See

document files for further information ˇ Spill closed ˇ end

Map Identification Number 139 **VERIZON BUILDING** **Spill Number: 0512042** **Close Date: 02/21/2007**
325 EXTERIOR STREET BRONX, NY TT−Id: 520A−0011−461

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1970 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION OR PBS FACILITY
Notifier Type: Other
Caller Name: JEFF BOHLEN
DEC Investigator: rmpiper

Spiller: JEFF BOHLEN − VERIZON BUILDING
Notifier Name: JEFF BOHLEN
Caller Agency: ENVIORTRACT
Contact for more spill info: JEFF BOHLEN

Spiller Phone: (631) 471−1500
Notifier Phone: (631) 471−1500
Caller Phone: (631) 471−1500
Contact Person Phone: (631) 471−1500

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/19/2006		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	GROUNDWATER

Caller Remarks:

found soil sample in groundwater defective:

DEC Investigator Remarks:

3/17/06− DEC Piper reviewed tank closure report. As per analytical, GW has 4760 ppb of MtBE and 8 ppb of Toluene. All other constitiuents, SVOC and VOC, non− detect. Subsurface investigation warranted. Site abuts Harlem River. Referred to remediation.

7/11/06− DEC Piper received subsurface investigation report to delineate gw contamination. Five borings were completed on property. All locations revealed contamination below TAGMs.

2/20/07− DEC Piper reviewed report dated Jan 29, 2007, As per report, No VOC's or SVOC's above Tagm. This case is closed. See E−docs if warranted./

Map Identification Number 140 **BEHIND GAL MANUFACTURERS** **Spill Number: 0307022** **Close Date: 09/24/2007**
50 E.153RD ST BRONX, NY TT−Id: 520A−0007−627

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1999 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name:
Notifier Phone:
Caller Name: KEN MCHALE
Caller Agency: METRO−NORTH RAILROAD
Caller Phone: (800) 840−7510
DEC Investigator: qxabidi
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/03/2003		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN MATERIAL	OTHER	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

staining coming down onto the track area − off cromwell av near exit ramp from i−87 onto crommwell av

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIPPLE Sangesland spoke with Ken McHale of Metro North Environmental.

At mile marker 5.88 post on the Hudson line they have evidence of a deliberate leak (Pipe drain) pouring oil out of the back of a building up on the cliff. This has been a long term problem and continues to be a new source.

Source building is GAL Manufacterers at 50 East 153rd St. There is a pipe which seems to come from the back of their building, under a rear parking lot and then down the slope to the tracks.

Contact person at Metro North should be Tom Water (Walter?) Asst. Supervisor for Track Operations. 718−742−6651.

The pipe may be visible from the rear parking lot of the source building. If you want to see the pipe from the tracks, an appointment will need to be made with Mr. Water to have an escort on the tracks.

05/23/06: This spill is transferred from Mr. Koon Tang to Q.Abidi. Called to Herbert w. Glazer at(718)292−9000 left message. −QA

05/25/06: Contacted to owner Mr. Herbert w. Glazer on phone at (718)292−9000. This spill is not in his knowledge. Mr. Herbert will find out about spill and he will call me back. −QA

07/18/06: Contacted to Mr. Fredrick Weaver at (212)499−4535 he said that spill is not in his knowledge. He said to talk to Karen Timko (Director of Environmental Compliance) at (212)340−3322. Called Karen Timko and left message to call me back. −QA

04/10/07: Called Mr. Glazer he was not available. He will be there tomorrow. −QA

08/31/07: I visited Behind Gal Manufacturers and inspected the site today with Mr. W. Glaser (Executive Vice President of Gal Manufacturing Corporation. Due to the storage of big container of metal, There was oil film on metal in the container. Due to heavy rain oil washed out and gone to railway track. Gal Manufacturer dug out that place. They put the new stones at the place. There is no stain at the place of railway track which Mr. Glazer shown to me. I checked the area of railway track was visible from the boundary wall fence of Gal Manufactures, there was no stain. It is also confirmed from Mr. Glazer that there was no such pipe lines in the parking lot going to railway track. On the basis of site inspection and information provided by Mr. Glazer this spill should be closed. Entered Photo 1 in e−doc −QA

09/06/07: Called Mr. Ken Mchale to ask that he is satisfied by the cleaning of Railway track by Gal Manufactures or not? He was not there, Left message to call me back to discuss regarding cleaning of spill. −QA

09/10/07: Called Mr. Ken Mcale (914)686−8681 to discuss regarding spill. He was not there. Left message to call me back. −QA

09/20/07: Called Mr. Ken Mchale and discussed regarding spill. He said that he will go to site with his supervisor Mr. Angello then he will write a letter to regarding spill. −QA

09/21/07: Mr. Ken Mchale and Mr. Angello they said to me verbally on phone that they are satisfied with this cleaning. So on the basis of information provided and my field inspection of August 31, I closed this spill. −QA

Map Identification Number 141 **146TH &147TH ST/LENOX AVE** **Spill Number: 9012864** **Close Date: 03/17/1991**

146TH &147TH ST/LENOX AVE NEW YORK CITY, NY TT−Id: 520A−0093−711

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 2008 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: W 146TH ST / W 147TH ST / LENOX AVE
Revised zip code: 10039

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: NYC BUS DEPOT
Spiller Phone:
Notifier Type: Citizen
Notifier Name:
Notifier Phone:
Caller Name: MERCEDES HERBERT
Caller Agency: CITIZEN
Caller Phone: (212) 281−9688
DEC Investigator: KSTANG
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/17/1991	03/17/1991	UNKNOWN	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	AIR

Caller Remarks:

BLACK SMOKE FROM STACK,REFERRED TO NYCDEP AIR RESOURCES.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was TANG

Map Identification Number 142 **TECHNIC AUTO SERVICES CORP** **Spill Number: 0550556** **Close Date: 07/13/2005**
699 MORRIS AVE. BRONX, NY 10451 TT−Id: 520A−0013−558
BRONX

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2013 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION OR PBS FACILITY
Spiller: ROBERT HEREDIA − TECHNIC AUTO SERVICES CORP
Spiller Phone:
Notifier Type: DEC
Notifier Name: MICHELLE TIPPLE
Notifier Phone: (718) 482−4927
Caller Name: MICHELLE TIPPLE
Caller Agency: NYSDEC
Caller Phone: (718) 482−4927
DEC Investigator: MXTIPPLE
Contact for more spill info: ROBERT HEREDIA
Contact Person Phone: (718) 617−1346

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/30/2005		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

Submittal from Even Air Sten Evenhouse indicated removal of five 550 gal, one 2000 gal and one 4000 gal gasoline tanks from a former gas station. PBS indicated the five 550's were installed in 1984, the submittal is questionble. No spill was ever called in on this site while it has been a gas station for 30 yrs.

DEC Investigator Remarks:

6/30/05 MT// Able construction was the prime contractor on this excavation as per a conversation with Empire Environmental there was a descrepancy in the amount of tanks pulled//nfa.

Map Identification Number 143 **141ST ST& GRAND CONCOURSE** **Spill Number: 8807934** **Close Date: 01/01/1989**

141ST ST &GRAND CONCOURSE NEW YORK CITY, NY TT−Id: 520A−0010−379

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2048 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: E 140TH ST /GRAND CONCOURSE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION OR PBS FACILITY
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name: STAN SEIDENBERG
Caller Agency: NYCDEP
Caller Phone: (212) 669−8930
DEC Investigator: SIGONA
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/01/1989	01/01/1989	UNKNOWN	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	SOIL

Caller Remarks:

NYCFD WATERED & FOAMED DOWN SPILL, NO ACTION REQUIRED BY DEC.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 144 **ABANDONED GAS STATION** **Spill Number: 0109527** **Close Date: 12/31/2001**

315 GRAND CONCOURSE BRONX, NY TT−Id: 520A−0007−426

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2132 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION OR PBS FACILITY
Spiller:
Spiller Phone:
Notifier Type: Citizen
Notifier Name:
Notifier Phone:
Caller Name: FRANK CHEZ
Caller Agency:
Caller Phone: (718) 409−9416
DEC Investigator: MXTIPPLE
Contact for more spill info: FRANK CHEZ
Contact Person Phone: (718) 409−9416

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/29/2001		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER STATES COMPANY ON SITE OF ABANDONED GAS STATION EXCAVATING UST AND THERE IS A STRONG SMELL OF GASOLINE COMING FROM HOLE

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIPPLE/SIGONA 12/29/2001 site visit revealed tank excavation in progress. Sigona is project manager for spill#99−09720 same spill, same site.

Map Identification Number 145 **VAULT #VS2380** **Spill Number: 0212011** **Close Date: 05/05/2003**
CANAL PL/E 141ST BRONX, NY TT−Id: 520A−0010−364

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2177 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: CANAL PL / E 141ST ST
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: MR BROWNE
Notifier Phone:
Caller Name: PETE MCGUIRE
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: AERODRIG
Contact for more spill info: PETE MCGUIRE
Contact Person Phone: (212) 580−6763

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/05/2003		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

THERE IS AN UNKNOWN PETROLEUM SPILLED ONTO THE STREET AND RUNNING INTO THE ABOVE MANHOLE − IT WILL BE CLEANED UP AS 50−499 PPM / CON ED SPILL #147408

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was RODRIGUEZ Con Ed e2mis #147408:

05−Mar.−2003 18:00 hrs. Environmental Flush mechanic T. Murphy # 21162 reports finding ~ 1 pint of unknown oil in sludge and 10 gallons of water from a 3rd party spill up the street while preparing to flush a vault for a transformer replacement. According to Mr. Murphy the oil smells like fuel oil and the affected area is ~ 200 feet in length. The crew will clean the affected area of street around the Vault to prevent further leakage and the cleanup will be conducted as a 50−499ppm PCB. Spill Tag # 36291 installed at vault.

06−Mar.−2003 04:00 Environmental Flush mechanic T. Murphy # 21162 reports that the affected area of of the street adjacent to the vault was double washed and Clean Ventures removed any oil. Double washed the floor and walls of vault2380. Clean Ventures removed all liquids and debris as 50 − 499ppm PCB. Crew removed environmental tag number 36291. Cleanup complete, crew on location T. Murphy 21162. R. Browne # 21646

06−March−2003 10:33 hrs Temp EPA # NYP004108320 assigned by ERT. 50−499 PCB check list pending from T.Murphy (21162) L.Fischer (55784)

06−Mar−2003 22:00hrs. 50 − 499ppm. PCB. Check list submitted to the EH&S Desk by T. Murphy # 21162.

Map Identification Number 146 **SPILL NUMBER 9702764** **Spill Number: 9702764** **Close Date: 07/14/2003**

310 GRAND CONCOURSE BRONX, NY TT−Id: 520A−0008−644

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2190 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: STEVEN MARMONCRAFT
Spiller Phone: ( ) 665−2500
Notifier Type: Affected Persons
Notifier Name:
Notifier Phone:
Caller Name: IVAN PANTOJA
Caller Agency: PANTOJA USED CARS
Caller Phone: (718) 402−5100
DEC Investigator: SIGONA
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/04/1997		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	0	GALLONS	0	GALLONS	AIR
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	AIR

Caller Remarks:

DURING HOT SUMMER DAYS LAST YEAR, NOTICED GASOLINE & DIESEL VAPORS IN THE OPEN LOT. IT HAPPENED AGAIN A FEW WEEKS AGO. GAS STATION CLOSED MORE THAN 9 YEARS AGO. MAYBE 20 YEARS AGO. STEVEN M. IS CURRENT LANDLORD (FROM 5 YEARS) HE PAVED OVER THE LOT & METAL MATES BY TANK.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 147 **VAULT 3328** **Spill Number: 1207731** **Close Date: 03/28/2013**
2 WEST 142ND STREET MANHATTAN, NY TT−Id: 520A−0278−090

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2219 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: STORM DAMAGE
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: RWAUSTIN
Contact for more spill info: TOMERT
Contact Person Phone: 2125808383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/30/2012		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
TRANSFORMER OIL	PETROLEUM	10.00	GALLONS	0.00	GALLONS	

Caller Remarks:

10 GALLONS ON TOP OF 100 GALLONS WATER

DEC Investigator Remarks:

3/28/13 − Austin − 10 gals transformer oil atop 100 gals water in transformer vault − Con Ed contained and cleaned up the spill, and replaced transformer − See eDocs files for further information − Sandy storm related − Spill closed − end

Map Identification Number 148 **MTA** **Spill Number: 1002713** **Close Date: 06/21/2010**
711 LENOX AVE MANHATTAN, NY TT−Id: 520A−0253−048

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2265 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION OR PBS FACILITY
Spiller: MTA
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: smsanges
Contact for more spill info: UNKNOWN
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/09/2010		OTHER	NO	

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

removing old fuel tanks/gas smell in air

DEC Investigator Remarks:

Sangesland spoke to Tibbe. He said the full city block West 146 to West 147 between 7th Ave and Lenox Ave is the "Mother Clara Hale MTA Bus Depot". The full block is a giant construction pit as the MTA removes tanks and "deals" with the contamination that remains. For the next 1−2 weeks there will be smell in the area until the area if permanantly capped.
This odor spill complaint is closed

Map Identification Number 149 **MOTTHAVEN** **Spill Number: 0710941** **Close Date: 01/16/2008**
790 CONCOURSE VILLAGE WES BRONX, NY TT−Id: 520A−0212−694

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2269 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: 790 CONCOURSE VILLAGE W
Revised zip code: 10451

Source of Spill: PRIVATE DWELLING
Spiller: ALBERT MORRIS
Spiller Phone: (718) 537−6522
Notifier Type: Citizen
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: RMPIPER
Contact for more spill info: ALBERT MORRIS
Contact Person Phone: (718) 537−6522

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/16/2008		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN HAZARDOUS MATERIAL	HAZARDOUS MATERIAL	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CASno: CALLER STATES THAT MELROSE TERMINAL WAS THEIR FIRST , THEY BUILT HOUSES AFTER: HE STATES HE THINKS IT MAY BE CONTAMINATED SOIL: AND HE STATES THAT THEY ARE ALSO BUILDING SCHOOLS ON SAME CONTAMINATED SOIL; PRESIDENT OF VILLAGE IS SAMUEL GOOD− 718−992 −4910

DEC Investigator Remarks:

site being addressed under Sp 0551708 BCP, 203036, 203042, & C203030. CLosed.

Map Identification Number 150 **MANHOLE #7087** **Spill Number: 9904014** **Close Date: 04/04/2002**
IFO 301 E 149TH SR BRONX, NY TT−Id: 520A−0010−016

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2287 feet to the ESE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10451

Source of Spill: UNKNOWN
Spiller: UNKNOWN − Unknown
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: JOE SCHLEMBACK
Notifier Phone:
Caller Name: RICHARD ROACH
Caller Agency: CON EDISON
Caller Phone: (212) 580−6764
DEC Investigator: CAENGELH
Contact for more spill info: CALLER
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/07/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	2.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

1.5 GALS OF OIL ON 75 GALS OF WATER/CLEAN UP WILL BEGIN WHEN TEST RESULT IS IN

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was ENGELHARDT

Map Identification Number 151 **VAULT 3804** **Spill Number: 0010341** **Close Date: 12/26/2000**
5TH AV/W141ST ST MANHATTAN, NY TT−Id: 520A−0093−776

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2304 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 5TH AV / W 141ST ST
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: SAME − CON ED
Spiller Phone: (212) 580−6763
Notifier Type: Responsible Party
Notifier Name: PELLAGRINO
Notifier Phone:
Caller Name: JIMMY FOX
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: JHOCONNE
Contact for more spill info: CALLER
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/14/2000		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
TRANSFORMER OIL	PETROLEUM	3.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

BOTTOM LEAK ON TRANSFORMER. CLEAN UP PENDING. OIL IN LINE TO THE SEWER AS WELL, POSS OIL RELEASED INTO SEWER.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was O'CONNELL 12/14/00 − spoke with Dan Shah, ERT − he is enroute to site. Crew is awaiting outage to begin draining transformer and start clean up.

e2mis notes:

Approx. 3 gallons transformer oil mixed with debris and approx. 10 gallons water in vault V3804. Source of spill is the transformer and cause is possible bottom leak. Checked the piping to sewer and found oil indicating possible release to sewer. Sump pump was not running but was plugged in. There are substantial cracks in the vault. Reinforcing rods can be seen in the concrete walls. Samples were taken. Prior PCB history indicates 103 ppm. Cleanup to start ASAP as >50 cleanup.

Update at 1737 hrs: >50 tanker never arrived at location today. It was re−routed by Astoria Transportation to another emergency job at Ravenswood. Crew initiated partial cleanup of vault. Absorbent pigs placed around sump pit and around transformer. Oil, water & debris pushed away from sump pit and blocked to prevent migration to pit. Pump disconnected. Bed of absorb−all granules was spread on vault floor. Over 50 tanker was ordered for tomorrow (12/15/00).

Lab results: oil similar to dielectric fluid, PCB count 8 ppm.

12/15/00 − No tanker available to drain transformer today. Tanker ordered for 12/16/00, drain scheduled for 7−3:30 shift. Final cleanup pending removal of transformer. Removal scheduled for 12/20.

12/19/00 − Transformer drained via corporate tanker. 360 gallons removed from the unit. 5 gallons free oil recovered from sump pit. Estimated 10 gallons oil in saturated debris on floor of structure. Estimated amount of residual oil in unit after it was drained is 5 gallons. Transformer nameplate states unit contains 390 gallons. Material balance estimates 10 gallons released to sewer.

12/21/00 − cleanup completed with flush truck. Cleanup completed at 1930 hrs.

Map Identification Number 152 **143RD ST ASSOCIATES** **Spill Number: 9706699** **Close Date: 06/10/2010**

44−58 WEST 143RD ST MANHATTAN, NY TT−Id: 520A−0093−625

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2321 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	JAY PERETZKY − 143RD ST ASSOCIATES		Spiller Phone: (212) 370−1333
Notifier Type:	Other	Notifier Name:	AMY BUTEL		Notifier Phone: (212) 694−0849
Caller Name:	AMY BUTEL	Caller Agency:	NAEC		Caller Phone: (212) 694−0849
DEC Investigator:	SFRAHMAN	Contact for more spill info:	JAY PERETZKY		Contact Person Phone: (212) 370−1333

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/04/1997		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER DID TANK REMOVAL AND FOUND SOIL CONTAMINATION − CALLER ALSO BELIEVES GROUNDWATER MAY HAVE BEEN AFFECTED ALSO

DEC Investigator Remarks:

04/12/06 − Hough − Next Step: Site visit is warranted to ascertain current conditions. Based upon this appropriate followup to prior activities may be required.

3/31/09 − Austin − Transferred from Needs Reassignment to Rahman for further work to remeidate and close − end

04/27/10 Investigation work plan in edocs.(sr)

05/24/10 Investigation summary report in eodcs.(sr)

06/09/10 The site is a commercial self storage building.Three USTs were removed in 1997. One 550 gal gasoline, one 1,500 gal heating oil UST, and one 5,000 gal #2 oil UST were removed. Seven soil samples were taken for lab analysis.VOCs were below TAGM.Ground water is at 12ft bgs.Three ground water samples were taken. No VOCs in ground water were detected.SVOCs in ground water were marginal.Case closed.(sr)

Map Identification Number 153 **TRANSFORMER VAULT #2190** **Spill Number: 0310705** **Close Date: 06/30/2005**
CONCOURSE VILLAGE/EAST158 BRONX, NY TT−Id: 520A−0014−147

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (5)
Approximate distance from property: 2349 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: CONCOURSE VILLAGE / E 158TH ST
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller:
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name: KEVIN MCDONALD
Notifier Phone: (212) 580−6763
Caller Name: KEVIN MCDONALD
Caller Agency: CON−ED
Caller Phone: (212) 580−6763
DEC Investigator: SKARAKHA
Contact for more spill info: KEVIN MCDONALD
Contact Person Phone: (212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/17/2003		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	7.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

crews responded to smoking vault and found 7 gallons of unknown oil untop of 400 gallons of water. clean up is pending test results. was smoke no fire,sewers or waterways

DEC Investigator Remarks:

−Dec−2003 09:58 hrs.

Bx/West I&A Splicer A. Sepulveda # 16522 reported while responding to a smoking vault that he found ~ 7 gallons of an unknown oil on ~ 400 Gallons of water in vault 2190. The crew took an oil sample.

Oil Identification Analysis by NYSDOH 310−13 (Hydrocarbon Scan)

Analysis indicates the presence of a substance similar to a dielectric fluid. Flash Point, COC > 140 deg F ASTM D92−1.

December 17, 2003 6:33 PM Lab Sequence Number: 03−10044−001 TOTAL PCB 37 ppm

17−Dec−2003 21:23 This cleanup will be a partial tentatively setup for Dec 18− CFS notified and available−pending confirmation

with the I&A and the Flush group. Con Hives can be on location within 2 hours for a setup.

18−Dec−2003 13:30 hrs I&A Mechanic Diego Hernandez (18527) reports CFS tanker drained V−2190. Unit will be removed at a later date. Partial clean up is complete. Environmental tag left in place.

06−Dec−2004 14:00hrs. Bx/West T. Brown reports that the CFS. Tanker removed 300 gallons of liquid and the flush truck removed ~ 200 Lbs. non−hazardous solids. Double washed the vault with water and 760 soap and the CFS removed all liquids. Partial cleanup completed.

08−Dec−2004 14:13hrs. Bx/West Flush Mech. T. Brown reports that the CFS. Tanker removed 50 gallons of liquid and the flush truck removed ~ 150 Lbs. non−hazardous solids. Vault washed 4x's with water and 760 soap and the CFS removed all liquids. 2nd Partial cleanup completed. Unit not removed, I&A to attempt removal of unit at a later date. Env. Tag remains in place. I&A will contact EH&S Desk to coordinate final cleanup with unit removal.

13−Dec−2004 13:45 hrs Flush Operator, Edward Cedeno (03384) reports defective transformer was removed. 300 lbs of non hazardous solid debris was removed by the Vactor truck. The vault was double washed with Bio−Gen 760 detergent. 100 gallons of waste water was removed by the CFS tanker. The environmental tag 34677 was removed. A new tranformer was installed. The Clean up is complete.

Map Identification Number 154 **GETTY#58409** **Spill Number: 0701951** **Close Date: 05/17/2007**
119 W. 145TH ST MANHATTAN, NY TT−Id: 520A−0090−214

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2372 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill:	GASOLINE STATION OR PBS FACILITY	Spiller:	JOSEPH GAVIN − GETTY#58409	Spiller Phone:	(631) 694−9696
Notifier Type:	Other	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	smsanges	Contact for more spill info:	JOSEPH GAVIN	Contact Person Phone:	(631) 694−9696

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/17/2007		OTHER	NO	

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

PBS No: 2−309834 IN MONITORING WELL:

DEC Investigator Remarks:

This site has a long term remediation project (Spill #9713385) R.Feng is the DEC case manager and she has been told about this product in well problem. Closed refer to spill 9713385

Map Identification Number 155 **SPILL NUMBER 9900030** **Spill Number: 9900030** **Close Date: 12/06/1999**

2541 7TH AVE MANHATTAN, NY TT−Id: 520A−0098−514

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2380 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: 2541 ADAM C POWELL BLVD
Revised zip code: 10039

Source of Spill:	UNKNOWN	Spiller:	MET FOODS	Spiller Phone:	
Notifier Type:	Fire Department	Notifier Name:		Notifier Phone:	
Caller Name:	RITOLL	Caller Agency:	NYFD	Caller Phone:	(917) 769−0483
DEC Investigator:	O'DOWD	Contact for more spill info:	UNKNOWN	Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/01/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN HAZARDOUS MATERIAL	HAZARDOUS MATERIAL	40.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

CALLER STATES THAT A COMPANY WAS CLEANING GRAFFITTI OFF OF THE WALLS. COMPANY LET THE RUN OFF ENTER A MANHOLE AND RUN INTO THE ROAD

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

1:15PM 5 BORO POWER WASHING COMPANY WAS HIRED, TO CLEANUP BY MET FOOD. IT IS A KIND OF CHEMICAL USED FOR WASHING OUTSIDE WALL OF MET FOODS. THE CHEMICAL WENT TO STREET BUT NOT GO TO SEWER. FAXED TO NYCDEP− HAZMAT. 4/6/99. @ 10:30 AM LEFT MESSAGE FOR CHRIS HAAS/DEP HAZMAT/718595−4664. 4/6/99 @ 11:00AM SPOKE TO CHRIS HAAS. HE WILL FIND OUT WHO WENT & WILL CALL ME BACK. 4/6/99 @ 10:13AM CHRIS HAAS LEFT MESSAGE ON VOICE MAIL. STANLEY BALDWIN WENT TO SITE. 4/7/99 @ 10:40AM SPOKE TO STANLEY BALDWIN. HE WENT TO SITE AND INTERVIEWED THE MANAGER OF THE SUPER MARKET TO HIRE A CONTRACTOR TO CLEANUP. DEP ICWS (COSMO), OEM AND FD RESPONDED. FD AGREED TO NEUTRALIZE IT AND CLEAN IT UP AND WASH IT DOWN. ICW'S LEFT MESSAGE FOR COSMO/ICW'S X 4718. CLEAN−UP HANDLED BY DEP. COSMO/DEP 595−4718. 9/14/99 @ 11:15AM SPOKE TO COSMO/DEP. ONCE FD NEUTRALIZED THE STUFF AND PH DROPPED THEY WASHED SPILL DOWN TO A CATCH BASIN. HE SAID MINIMAL AMOUNT GOT TO SOIL BY TREE, NO NEED TO DIG OUT. GOING TO COURT NEXT WEEK.

Map Identification Number 156 **SPILL NUMBER 0212767** **Spill Number: 0212767** **Close Date: 06/09/2003**

101/125 W.147TH ST MANHATTAN, NY TT−Id: 520A−0098−516

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2380 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10039

Source of Spill:	PRIVATE DWELLING	Spiller:	PATRICK − PATRICK		Spiller Phone: (212) 234−1600
Notifier Type:	Affected Persons	Notifier Name:	PATRICK		Notifier Phone:
Caller Name:	FERNANDO ORTEGA	Caller Agency:	CASTLE OIL		Caller Phone: (718) 579−3480
DEC Investigator:	JXZHAO	Contact for more spill info:	PATRICK		Contact Person Phone: (212) 234−1600

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/25/2003		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	60.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

unknown reason for spill. spill contained. most cleaned up today will finish tomorrow.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was ZHAO 3/26/2003 − JZ: After Castle made delivery yesterday, on site staff was making a transfer from one tank to another. There are two 10,000 gal tanks on site which are not registered.

Spill went to side walk and parking area. Castle did clean up.

3/27/2006 − JZ: It has been found that the two 10,000 gallon tanks are temperary ones. There were three 40,000 gallon tanks has been removed from site. PBS 2−511838 needs a sub. mod. application for deregistering those tanks.

Map Identification Number 157 **HALE (146TH STREET) DEPOT−NYCT** **Spill Number: 9813017** **Close Date: 06/17/2008**

721 LENNOX AVE MANHATTAN, NY TT−Id: 520A−0100−733

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2402 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: 721 LENOX AVE
Revised zip code: 10037

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: ERIC JONES − NYC TRANSIT
Spiller Phone: (718) 243−4581
Notifier Type: Responsible Party
Notifier Name: JOEL SEIGAL
Notifier Phone:
Caller Name: ERIC JONES
Caller Agency: NYC TRANSIT
Caller Phone: (718) 243−4581
DEC Investigator: RVKETANI
Contact for more spill info: ERIC JONES
Contact Person Phone: (718) 243−4581

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/22/1999		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
WASTE OIL/USED OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

in place closure investigation led to the results of contaminated soil in the area of the tanks. full remedial investigation is pending

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE transfered from Hale to Tibbe on 12/27/00. soil contamination around removed tank. investigation showed possible hydraulic oil contamination. investigation ongoing.

See also 89−02374, 89−04241, 91−06264, 93−04003, 96−06076 & 01−02743.

06−17−08: Closed and copnsolidated under 8902374.

Map Identification Number 158 **146TH ST BUS DEPOT** **Spill Number: 9606076** **Close Date: 12/27/2000**
721 LENOX AVE MANHATTAN, NY TT−Id: 520A−0100−724

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2402 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10037

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Responsible Party
Caller Name: HOWIE MATZA
DEC Investigator: MCTIBBE

Spiller: HOWIE MATZA − NYCTA
Notifier Name: BUS DEPOT DILCHAND
Caller Agency: NY CITY TRANSIT
Contact for more spill info: HOWIE MATZA

Spiller Phone: (718) 243−4581
Notifier Phone: (212) 690−9561
Caller Phone: (718) 243−4581
Contact Person Phone: (718) 243−4581

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/11/1996		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	10.00	GALLONS	10.00	GALLONS	SOIL

Caller Remarks:

bus was being filled and desiel came out of a manway − the tanks have been taken out of service until cause is determined− spill cleaned up

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE transfered from Hale to Tibbe on 12/27/00. refer to 89−02374. remediation ongoing.

Map Identification Number 159 **146TH STREET DEPOT** **Spill Number: 9212791** **Close Date: 02/12/1993**
146TH STREET DEPOT MANHATTAN, NY TT−Id: 520A−0100−731

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2402 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: 721 LENOX AVE
Revised zip code: 10039

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: NYCTA
Spiller Phone: (212) 694−1373
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name: RAMON PAEZ
Caller Agency: NYCTA−BROOKLYN
Caller Phone: (718) 330−4581
DEC Investigator: MCTIBBE
Contact for more spill info:
Contact Person Phone:

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/12/1993	02/12/1993	UNKNOWN	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#4 FUEL OIL	PETROLEUM	200.00	GALLONS	0.00	GALLONS	SURFACE WATER

Caller Remarks:

DELIVERY MADE TODAY−OIL ON CONCRETE FLOOR GROUND LEVEL−DRAIN APPEARS TO BE CLOGGED−NYCTA EMPLOYEES APPLIED SORBENT PADS− WILL P/U AND DISPOSE

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE CHANGED TO TIBBE ON 2/14/2000 FROM ZHITOMERSHI

Map Identification Number 160 **146 WEST 147TH ST/MANH** **Spill Number: 8905388** **Close Date: 08/31/1989**
146 WEST 147TH STREET NEW YORK CITY, NY TT−Id: 520A−0100−750

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2402 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name:
Notifier Phone:
Caller Name: P O BROWN
Caller Agency: USCG
Caller Phone: (212) 668−7920
DEC Investigator: SIGONA
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/28/1989	08/31/1989	UNKNOWN	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	SOIL

Caller Remarks:

(8) 55 GALLON DRUMS OF UNKNOWN TOXIC SMELLING CHEMICALS LEFT IN STREET

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 161 **MOTHER CLARA HILL BUS** **Spill Number: 0610604** **Close Date: 06/17/2008**
721 LENOX AVE NEW YORK, NY TT−Id: 520A−0100−752

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2402 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: RACHEL KRON − MOTHER CLARA HILL BUS
Spiller Phone: (201) 341−9552
Notifier Type: Local Agency
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: MCTIBBE
Contact for more spill info: RACHEL KRON
Contact Person Phone: (201) 341−9552

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/13/2006		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

NO VISIBLE LEAK, LINE TEST FAILED ON TANK # 2 AND HAS BEEN LOCKED AND TAGGED: MARK TIBBE FROM DEC REGION 2 HAS BEEN NOTIFIED: SUSPECT IT WAS A FLEX CONNECTER MALFUNCTION:

DEC Investigator Remarks:

06−17−08: Closed and consolidated under 8902374.

Map Identification Number 162 **MOTHER CLARA HILL DEPOT −NYCT** **Spill Number: 0404173** **Close Date: 03/30/2005**
721 LENOX AVE MANHATTAN, NY TT−Id: 520A−0100−744

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2402 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: 721 MALCOLM X BLVD
Revised zip code: 10030

Source of Spill: COMMERCIAL VEHICLE
Spiller: LENNY GELDMAN − MOTHER CLARA HILL DEPOT
Spiller Phone: (347) 386−7457
Notifier Type: Local Agency
Notifier Name: OLUCHI DUROHA
Notifier Phone: (718) 243−4581
Caller Name: OLUCHI DUROHA
Caller Agency: NYC TRANSIT
Caller Phone: (718) 243−4581
DEC Investigator: MCTIBBE
Contact for more spill info: LENNY GELDMAN
Contact Person Phone: (347) 386−7457

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/19/2004		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	20.00	GALLONS	20.00	GALLONS	SOIL

Caller Remarks:

LEAKED FROM #1 TANK INTO THE SUMP CONTAINMENT, STILL INVESTIGATING CAUSE, EVERYTHING CLEANED UP

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE see also 04−01607. Product discovered in the discharge sump for diesel tank #1. Primary line leak. Secondary and sump passed testing on 07/20/04, so there was no release to the environment. The flex connector was replaced and relocated inside the sump. The discharge primary and secondary were retested and passed.

Map Identification Number 163 **CLARA HALE BUS DEPOT** **Spill Number: 0401286** **Close Date: 07/12/2004**
735 LENOX AVE NYC, NY TT−Id: 520A−0100−738

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2402 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: 735 LENOX AV
Revised zip code: 10037

Source of Spill: COMMERCIAL VEHICLE
Notifier Type: Other
Caller Name: PASHKO CAMAJ
DEC Investigator: MCTIBBE

Spiller: PASHKO CAMAJ − CLARA HALE BUS DEPOT
Notifier Name: PASHKO CAMAJ
Caller Agency: NYC TRANSIT
Contact for more spill info: PASHKO CAMAJ

Spiller Phone: (718) 243−4581
Notifier Phone: (718) 243−4581
Caller Phone: (718) 243−4581
Contact Person Phone: (718) 243−4581

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/06/2004		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
HYDRAULIC OIL	PETROLEUM	0	POUNDS	0	POUNDS	SOIL

Caller Remarks:

TANK WAS LOCKED OUT AND TAGGED OUT.THEY WILL INVESTIGATE AND TAKE ANY ACTION NEED TO CORRECT THE PROBLEM.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE Leak from an aboveground line. Spill went to a trough that leads to the OWS. All of the OWS's are cleaned on a monthly basis.

Map Identification Number 164 **MOTHER CLARA HALE DEPOT** **Spill Number: 0400382** **Close Date: 04/20/2004**
721 LENOX AVE NEW YORK, NY TT−Id: 520A−0100−737

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2402 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10037

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: SHERRY BULKLEY − NYCT
Spiller Phone: (718) 243−4581
Notifier Type: Responsible Party
Notifier Name: SHERRY BULKLEY
Notifier Phone: (718) 243−4581
Caller Name: SHERRY BULKLEY
Caller Agency: NYC TRANSIT
Caller Phone: (718) 243−4581
DEC Investigator: MCTIBBE
Contact for more spill info: SHERRY BULKLEY
Contact Person Phone: (718) 243−4581

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/13/2004		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	0	POUNDS	0	POUNDS	SOIL

Caller Remarks:

UNKNOWN WHAT HAPPENED, PART OF TANK SYSYTEM, 1/2 GALLON: WILL DO LINE TEST:

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE 04/20/04 − Transfered from Tipple to Tibbe. 1/2 gallon of diesel discovered in dischagre sump 1b for diesel tank 1. Discharge line test @ 30psi and passed. No impact to the environment because the sump also tested tight. Unknown where the product came from. NYCT inspects sumps on a monthly basis and will make notification if the product reappears.

Map Identification Number 165 **CLARA HALE BUS DEPOT** **Spill Number: 0311426** **Close Date: 03/30/2004**
721 LENOX AVE MANHATTAN, NY TT−Id: 520A−0100−741

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2402 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: 721 LENOX AV
Revised zip code: 10039

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller:
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name: FRANK OCELLO
Notifier Phone: (718) 243−4581
Caller Name: PASHKO CAMAJ
Caller Agency: NYC TRANSIT
Caller Phone: (718) 243−4581
DEC Investigator: MCTIBBE
Contact for more spill info: PASHKO CAMAJ
Contact Person Phone: (718) 243−4581

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/09/2004		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

1/2 GALLON OF GAS WAS FOUND IN A BLIND RISER FOR A DISCHARGE LINE #2. SOURCE IS CURRENTLY BENIG INVESTIGATED. BELIEVED TO BE JUST WASHED INTO RISER.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE Product discovered in blind riser of secondary for discharge line #2. Product was entering secondary through the dispensor pan, which is connected to the secondary. Product was entering the dispensor pan because operators were leaving the dispensor nozzle leaning over the pan and some residual product was dripping from the nozzle to the pan and then to the secondary. NYCT cleaned spill and re−sealed the dispensor pan shroud to prevent product from accumulating in pan.

Map Identification Number 166 **HALE (146TH STREET) DEPOT** **Spill Number: 0102743** **Close Date: 01/10/2005**
LENOX AVE/146TH ST MANHATTAN, NY TT−Id: 520A−0100−747

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2402 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: JOSEPHINE BROWN − NYCT
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: JIM TREANOR
Notifier Phone: (646) 252−3636
Caller Name: JIM TREANOR
Caller Agency: NYC TRANSIT
Caller Phone: (646) 252−3636
DEC Investigator: MCTIBBE
Contact for more spill info: HUSSEIN
Contact Person Phone: (646) 252−3617

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/12/2001		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	−1.00	GALLONS	−1.00	GALLONS	SOIL

Caller Remarks:

contaminated soil found in the course of borings − conditions pre−existed − spiller unknown

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE

01−10−05: Soil contamination discovered in geotechnical boring performed for the future installation of an OWS. Boring is at the edge of an existing petroleum plume from the facilities diesel, waste oil and #4 heating oil tanks. Refer to 8902374, 8904241, 9813017.000

Map Identification Number 167 **MELROSE −NYCHA** **Spill Number: 9004480** **Close Date: 01/26/2006**
304 E 156TH ST BRONX, NY TT−Id: 520A−0010−681

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 2434 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10451

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: NYCHA
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name: MIKE SIMONELLI
Caller Agency: NYCHA
Caller Phone: (212) 306−3142
DEC Investigator: SWKRASZE
Contact for more spill info:
Contact Person Phone:

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/23/1990		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	SOIL

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

OIL IN BASEMENT SEEPS UP FROM FLOOR ONLY WHEN THERE ARE HEAVY RAINS, DEC TO INVESTIGATE.

DEC Investigator Remarks:

01/26/06: This spill transferred from J.Kolleeny to S.Kraszewski. This spill closed to consolidate with open spill #9800693. − SK

Map Identification Number 168 **MELROSE HOUSE −NYCHA** **Spill Number: 0207044** **Close Date: 05/05/2017**
304 E 156TH ST BRONX, NY TT−Id: 520A−0010−672

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 2434 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10451

Source of Spill: PRIVATE DWELLING
Spiller: NY CITY HOUSING − MELROSE HOUSE
Spiller Phone: (212) 725−1002
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: DECLAN POWER
Caller Agency: A.L. EASTMAN
Caller Phone: (718) 378−7000
DEC Investigator: jkkann
Contact for more spill info: NY CITY HOUSING
Contact Person Phone: (212) 725−1002

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/08/2002		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

during removal of 20000 gal ust soil contamination discovered − soil stockpiled

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was KOLLEENY

02/13/06: This spill transferred from J.Kolleeny to S.Kraszewski. − SK

9/22/06: Spill transferred from Kraszewski to Kann. −JK

07/22/10: Investigation work plan received on 7/15/10. JK

9/21/10: J.Kann − Quarterly Report recieved on 9/1/10.

5/11/12: J.Kann − Quarterly report recieved on 5/9/12.

9/6/12: J.Kann − Quarterly Report recieved on 8/21/12

5/21/13: J.Kann − QR rcvd 1/16/13

5/21/14: J.Kann − sent an email to NYCHA indicating The Department understands that a recovery system is operating, that monthly VEFR is being performed and that quarterly monitoring is currently being done at the following five sites:

Amsterdam Houses Elliott Houses Manhattanville Houses Melrose Houses Baruch Houses

Since wells at these five sites have consistently (based on quarterly reports received over the past year) had no product, a sheen or less than 0.08 inch of product in their wells, the Department would like NYCHA to temporarily cease operation of the systems and VEFR at these sites. For the next 4 months, the wells must be monitored to determine if any significant recharge of product occurs. Accurate readings of product thickness must be made, which may require using the gauging method used at South Jamaica Houses on May 19, 2014. In addition, during this 4 month time period, no absorbent socks should be placed in the wells.

Data from this monitoring, along with recommendations, must be included in the 2014 3rd quarter monitoring report for these sites, which is due to the Department by October 1, 2014. In the event that a significant recharge is noticed in any of the wells during these 4 months, the Department must be contacted immediately (within 72 hours of gauging).

2/5/15: J.Kann − Quarterly Status Reports were reviewed and the following email was sent to Yelena today: Based on the review of the 3rd and 4th Quarter Status reports for this site, the Department has the following comments:

−Based on the gauging data, there was minimal product found in three wells (1inch). If that occurs, the Department should be contacted to discuss how to move forward.

Please let me know when the next gauging event will take place. I would like to visit the site.

3/23/15: J.Kann − site visite made on 3/19/15. Min. thick oil noted in one RW. Informed NYCHA to take an accurate reading with the steel pipe method and that a closure request could be made.

5/5/17: J. Kann − April 2016−April 2017 gauging data submitted. Occasional skim in one RW.

− continued VEFR and monitoring performed monthly for the last seven years. A skim remains in one recovery well. Site being closed based on the following: −tanks, which were the source, were removed and replaced in 1997 −Measured product thickness in one RW has been a sheen for 2+ years −no dissolved phase contaminants detected in groundwater at the site.

−investigative work performed in the mid 1990s delineated the impacts on site and no off−site impacts found. −recovery system was operated from 1995− 2014 and has been shut down for over 3+ years and no significant recharge has been observed. As per Randy in a discussion of January 20, 2017 if less than 0.25 inches of No. 6 oil has been in on−site wells for 2+ years and contamination has been delineated all around the impacted area and there is nothing off−site and no dissolved phase in wells, spills can be closed. The Closure Letter should contain the contaminated soil clause. Spill closed.

Map Identification Number 169 **APARTMENT BUILDING** **Spill Number: 9802251** **Close Date: 03/03/2003**
250 WALTON AVE BRONX, NY TT−Id: 520A−0008−784

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2482 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Local Agency
Caller Name: EELIE SAINT−JEAL
DEC Investigator: TOMASELLO

Spiller: UNKNOWN FOR NOW
Notifier Name: MR MARCELLUS
Caller Agency: NYC HAZ MAT
Contact for more spill info: OWNERS #

Spiller Phone:
Notifier Phone: (212) 580−6764
Caller Phone: (718) 595−4653
Contact Person Phone: (917) 904−6768 ext. 0
ext: 0277

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
05/14/1998		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
OTHER	OTHER	0	GALLONS	0	GALLONS	SOIL
The following material(s) was dropped or revised by the NYS DEC. Call Toxics Targeting for more information						
OTHER PETROLEUM	UNKNOWN	0	GALLONS	0	GALLONS	

Caller Remarks:

nyc haz mat got a call from a mr marcellus from con ed who reported a oil petroleum spill.unknown what type of oil petroleum it is.

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

SPOKE TO DEP 4:15 PM − WATER AND OIKL MIXTURE IN BASEMENT OF APT BUILDING.
REP FROM CON ED SAW THIS ON 5
DOES NOT HAVE HIS #

Map Identification Number 170 **SERVICE BOX #4855** **Spill Number: 0308959** **Close Date: 12/22/2003**
261 GR CONCOURSE/138TH ST BRONX, NY TT−Id: 520A−0010−411

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2482 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: 261 GRAND CONCOURSE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Spiller: UNKNOWN − Unknown
Spiller Phone:
Notifier Type: Local Agency
Notifier Name: RON ELLIOTT
Notifier Phone: (212) 580−6763
Caller Name: RON ELLIOTT
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: AERODRIG
Contact for more spill info: CALLER
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/22/2003		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

1 qt unk oil in box − not on any water con ed #151235

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was RODRIGUEZ E2MIS 151235

22−Nov−2003 09:51 hrs. Environmental Flush Mechanic O. Negron # 18400 reports finding ~ 1 quart of unknown oil and ~ .5 gallons of antifreeze in service box and on asphalt pavement while attempting to flush the service box. There was/is no smoke, fire or injuries involved. There was/is no sewers, waterways or private property affected. The crew took an oil sample (COC# DD−07499)and will hang an environmental tag on the barricaded Service Box. Cleanup pending lab results.

22−Nov−2003 15:41 Hrs. Lab Sequence Number: 03−09459−001 Total PCBs <1.0 ppm

11/22/03 1900 hrs Clean Harbors tanker took 60 gallons of liquid. The crew double washed and rinsed the service box and removed 1 yard solids. Environmental tag #34759 was removed. Clean up completed.

Lab Sequence Number: 03−09461−001 Analysis indicates the presence of a substance similar to a dielectric fluid.

11/23/03 Oil ID indicates dielectric fluid but after the clean up was completed there was no evidence of any active leak and the source of the original leak could not be determined.

Map Identification Number 171 **GASETERIA** **Spill Number: 9408104** **Close Date: 10/28/2003**
115 EAST 138TH STREET BRONX, NY TT−Id: 520A−0013−277

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2508 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION OR PBS FACILITY
Spiller: GASETERIA
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name: ANGEL CHANG
Caller Agency: GASETERIA
Caller Phone: (718) 782−4200
DEC Investigator: JMROMMEL
Contact for more spill info:
Contact Person Phone:

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/14/1994		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	52.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

TO TEST TANK (TOMASELLO)

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was ROMMEL to be investigated and remediated under spill 0207682
rommel

Map Identification Number 172 **HIGHRISE BUILDING** **Spill Number: 9709665** **Close Date: 07/13/1998**
775 CONCOURSE VILL EAST BRONX, NY TT−Id: 520A−0013−554

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2509 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: 775 E CONCOURSE VILLAGE
Revised zip code: 10451

Source of Spill: PRIVATE DWELLING
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Local Agency
Notifier Name: ALBERT GORDON
Notifier Phone: (718) 595−4714
Caller Name: ALBERT GORDON
Caller Agency: NYC DEP
Caller Phone: (718) 595−4714
DEC Investigator: MCTIBBE
Contact for more spill info: ALBERT GORDON
Contact Person Phone: (718) 595−4714

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/19/1997		OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SEWER

Caller Remarks:

WORKERS FOR DEP NOTICED OIL IN THE TREATMENT PLANT THE WORKERS FOLLOWED THE SPILL BACK TO THE ABOVE LOCATION − IT'S COMING FROM 2 ABAN TANKS THAT WERE NOT DRAINED EACH TANK HOLDS 35,000 GALLONS 4 TANKS TOTAL ONLY 2 ARE LEAKING HIGHRISE SWITCHED TO NATURAL GAS LAST YEAR DEP ON SCENE MAKING CONTACT WITH RESPONSIBLE PERSONS

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE NO LINK TO SPILL LOCATION. THIS SITE HAD MINOR CONTAMINATION OUTSIDE VAULT. NO SEWERS LINK TO VAULT AREA. NO FURTHER OIL FOUND IN SEWER.

Map Identification Number 173 **STORAGE UNIT** **Spill Number: 0305408** **Close Date: 08/21/2003**
773 CONCOURSE VILLAGE E BRONX, NY TT−Id: 520A−0013−555

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2509 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: 775 E CONCOURSE VILLAGE
Revised zip code: 10451

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Affected Persons
Notifier Name: ALFRED BROWN
Notifier Phone: (718) 537−0129
Caller Name: ALFRED BROWN
Caller Agency:
Caller Phone: (718) 537−0129
DEC Investigator: TJDEMEO
Contact for more spill info: ALFRED BROWN
Contact Person Phone: (718) 537−0129

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/21/2003		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

caller recieved a letter about a spill of sometype of oil in the area and the fumes in his storage unit are very strong he doesn't know if anyone is doing a clean up

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was DEMEO closed − ref to #0305420

Map Identification Number 174 **218947; RUPPERT PLACE** **Spill Number: 0914570** **Close Date: 07/08/2010**
RUPPERT PLACE BRONX, NY TT−Id: 520A−0249−070

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 2531 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: RUPPERT PL
Revised zip code: 10451

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	ERT DESK − CON EDISON	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	dmpokrzy	Contact for more spill info:	ERT DESK	Contact Person Phone:	(212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/23/2009		UNKNOWN	NO	

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	2.00	GALLONS	0.00	GALLONS	UTILITY

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks:

07/08/2010 See eDocs for Con Ed report detailing cleanup and closure DMP

Comments from CON Ed EMIS Report:

While contractor Allstate was cleaning vaults, crew discovered 2 gallons of oil on 200 gallons of water in structure. Two sample for oil id and pcb were taken.

10/23/2009 15:41 Clean Ventures filled the Vactor truck to capacity and took 2,727 kilograms of liquid to be disposed as 50−499 ppm at CycleChem facility. About 200 gallons of liquid remains in the structure to be removed and is contained. Job was changed to a QUARTERLY and will be followed up next week when oil sample results are back. This structure is being retired and is a NON emergency job. Env tag 98044 was placed in the structure.

Map Identification Number 175 **SPILL NUMBER 0200438** **Spill Number: 0200438** **Close Date: 01/08/2004**

140TH ST & CANAL PL BRONX, NY TT−Id: 520A−0010−361

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2532 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: E 140TH ST / CANAL PL
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:	ENTERPRISE OIL CO	Spiller Phone:	
Notifier Type:	Citizen	Notifier Name:	BENJAMIN PLAZA	Notifier Phone:	
Caller Name:	BENJAMIN PLAZA	Caller Agency:	TRUCK DRIVER	Caller Phone:	
DEC Investigator:	JBVOUGHT	Contact for more spill info:		Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
04/12/2002		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

CALLER IS A TRUCK DRIVER (HE SAYS HE IS ALWAYS ON THE ROAD & HAS NO CALL BACK #) − HE WAS TRYING TO MAKE A DELIVERY ON THAT STREET AND COULD NOT GET DOWN THE STREET BECAUSE THERE WAS OIL ALL OVER THE ROAD

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT 04/16/2002 −site visit by Tipple −RAPID FUEL OIL DID DELIVERY AND SPILLED ONTO STREET/SIDEWALK. ONE OF THE CREW SAID THAT THE SPILL WAS CONTAINED BEFORE THE RAIN STARTED. WHEN I ARRIVED ON THE SITE THE SPILL EXTENDED ALONG EAST 140TH STREET FROM THE CORNER OF CANAL AVE TO THE CORNER OF RYDER. TWO MEN WITH SHOVELS A VAN, SPEEDY DRY AND OILY WATER FLOWING INTO THE SEWER DRAIN AT THE CORNER OF 104 AND RYDER. THE VAN WAS NEARLY FULL OF OIL SOAKED DEBRIS. I TOLD THE CREW THAT THEY MUST STOP THE OIL FROM REACHING THE SEWER IMMEDIATELY, CALLED THE OIL COMPANY AND TOLD THEM THAT THEIR CLEANUP CREW WAS NOT SUFFICIENT TO EFFECTIVELY CLEAN THE SPILL. I WAS ASSURED THAT ABC WAS CALLED TO COMPLETE THE CLEANUP.

THE SPILL HAD NOT BEEN CALLED IN BY EITHER THE BUILDING MAINTENANCE OR THE OIL COMPANY. I ALSO CALLED DEP TO INFORM THEM OF THE OIL IN THEIR DRAIN. CALLED ABC ON TEUSDAY 4/16 CLEANUP COMPLETED.−

1/8/04−Vought−Spill closed as per Tipple. Spill on concrete and in drain with no pathways to subsurface or groundwater. Spill closed by Vought.

Map Identification Number 176 **HESS/MERIT GAS STA.** **Spill Number: 9212043** **Close Date: 04/21/2004**
120 WEST 145TH STREET MANHATTAN, NY TT−Id: 520A−0093−707

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2583 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION OR PBS FACILITY
Spiller: HESS/MERIT GAS STA.
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name: AL FERREIOLO
Caller Agency: MERIT OIL−PROJ COORDINATO
Caller Phone: (516) 731−4100
DEC Investigator: WXSUN
Contact for more spill info:
Contact Person Phone:

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/20/1993		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	AIR
VAPORS (PETROLEUM)	PETROLEUM	0	POUNDS	0	POUNDS	AIR

Caller Remarks:

VAPORS COMING UP AROUND CONUCTS FOR ELECTRIC LINES,F.D. WAS AT SCENE

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was SUN 04/22/2004−File Update by Sun:

−Update Report (October 2003 through January 2004) by EnviroTrac: Four (4) monitoring wells were gauged and sampled on 1/30/2003. THe depths to groundwater ranged from 13.95 to 15.65 feet below grade. Groundwater flow direction was towards the southwest. No free product was detected in any of the monitoring wells. Based on the groundwater sampling data of this report and based on overall downward trend of chemical concentrations of compounds over the last three sampling events, and no sensitive receptor is located uo and down−gradient of MW−4, this spill is closed.

Map Identification Number 177 **FORMER MERIT/FORMER HESS STATION** **Spill Number: 1606459** **Close Date: 12/06/2016**
122 WEST 145TH ST MANHATTAN, NY TT−Id: 520A−0324−139

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 2583 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION OR PBS FACILITY
Spiller: SPEEDWAY
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: JBVOUGHT
Contact for more spill info: MATT BUTLER
Contact Person Phone: (732) 738−2924

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/29/2016		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	0	UNKNOWN	0	UNKNOWN	SOIL

Caller Remarks:

spill is contained and clean up is in progress

DEC Investigator Remarks:

09/29/16−Hiralkumar Patel. alternate address: 120−138 W 145th Street

PBS #: 2−297607. as per PBS record, the site has/had following tanks: − five (5) 4,000 gal gasoline/ethanol USTs, in−service, installed in Jun. 1993 − one (1) 550 gal other product UST, in−service, installed in Jun. 1993 − two (2) 2,000 gal gasoline USTs, removed in May 1993 − four (4) 4,000 gal gasoline USTs, removed in May 1993 − one (1) 550 gal other product UST, removed in May 1993

other spills #: 8606425, 9210186, 9212043

spill #: 8606425 was reported on 01/15/1987 due to tightness test failure of gasoline tanks. case closed. spill #: 9210186 was reported on 12/02/1992 due to tightness test failure of two (2) 4,000 gal and one (1) 2,000 gal gasoline tanks. case closed. spill #: 9212043 was reported on 01/21/1993 due to petroleum vapor coming up from ground. case closed.

3:18 PM:− spoke with Mr. Butler at Speedway. he mentioned that the site is owned by Hess, which has now merged with Speedway. currently, Speedway is closing gas station on−site. they have removed on−site tanks. the tanks were found in good condition. during removal of remote fill line, they came across some historical contamination under the sidewalk. Speedway will continue

soil remediation and will collect endpoint samples. they will remove dispensers and associated piping.

Hess Retail Stores LLC.

property owner c/o Speedway LLC. 500 Speedway Drive Enon, OH 45323 Attn.: Matthew Butler (105 Fieldcrest Ave., 5th Floor ˘ Suite 505 Edison, NJ 08837) Ph. (732) 738−2756/2924 email: mbutler1@speedway.com

Edward Russo EnviroTrac

contractor working for Speedway Ph. (631) 924−3001 email: edr@envirotrac.com

09/30/16−Hiralkumar Patel. 2:51 PM:− sent letter to Mr. Butler requiring endpoint samples. asked him to submit report by the end of 11/18/16. letter emailed to Mr. Butler, Ed and DEC Zhune.

case assigned to DEC Zhune.

12/6/16−Vought−This spill reassigned from DEC Zhune to Vought as Vought assisted Zhune with review, Zhune out of office, and impending property transaction and request for expedited review. Vought received email on 11/21/16 from Speedway (Mathew Butler email:mbutler1@speedway.com Ph:732−738−2924) that Jeff, We appreciate the DEC´s time today to discuss the UST closure and the historic details of closed Spill #9212043. As requested, attached are copies of the documents associated with the historic Spill that supported DEC closure, as well as a copy of the NFA letter. The documents provided include:

1995 UST Closure Report prepared by GES, 700 tons of soil was removed from the site during the project.

1996 Site Assessment Report prepared by GES summarizing installation of four monitoring wells (MW−1 through 4). 1998 Remedial Investigation Report prepared by GES summarizing a 1996 GeoProbe investigation and slug test. 2004 1st Quarter Update Report prepared by EnviroTrac. April 22, 2004 No Further Action Letter.

The property is being sold to an adjacent property owner who has interest in the air rights. Based on recent conversations with the buyer there is no current plans for site development. However, if development occurs the future use of the property is restricted to allow industrial/commercial use, limit residential use to upper floors and require a vapor barrier/vapor mitigation system be installed for residential use. The specific language in the sale agreement restricting property use is provided below. ˆThe use of the Property shall be restricted solely to (i) industrial/commercial use within any portion of the improvements located at the Property, and (ii) to the extent permitted by applicable zoning, residential use on and above the second floor of any improvements located at the Property; provided that any residential use at the Property shall be further conditioned on the installation and maintenance of a vapor barrier and vapor mitigation system at the Property.˜ ˆThe installation and/or existence of potable wells on the Property is prohibited. The groundwater underneath the Property shall not be used for any purpose whatsoever. This restriction, however, does not prohibit the installation or use of any compliance wells, or any groundwater monitoring, recovery or extraction wells or similar devices, used for or related to the performance of any Corrective Action.˜
The recent tank removal and corresponding closure sampling do not indicate the presence of a new spill condition associated with this tank system. With the exception of a small area of petroleum impacted soil near the remote fill, which was fully removed through excavation, field observations made during the tank removal did not identify any petroleum impacted soil surrounding the tanks. The impacted soil within the area of the tank field was identified three feet below the tanks under a two foot thick concrete pad (tank anchor). The pea gravel and concrete below the tanks showed no evidence of petroleum impacts. As shown on

Figure 2 of the attached 1998 RIR, the former tank system that was removed in 1994 was located immediately adjacent to the recently removed tanks. Based on this information, the conditions identified beneath the tank anchor do not represent a new Spill condition and appear to be associated with Spill #9212043. In addition, all soil VOC concentrations were detected below Part 375 Restricted Use Soil Cleanup Objectives (Commercial) and the future use will be restricted as detailed above. Speedway requests DEC closure for Spill #1606459, as this is a re−reporting of closed Spill #9212043. Again, we appreciate the DEC´s timely review of the information provided as it will greatly assist us in finalizing the property transaction, as the sale is scheduled for the very near future. Feel free to contact Ed Russo at EnviroTrac or myself if you have any questions.

12/6/16−Vought−Reviewed email above with attachments including reports from closed spill 9121043. Reports for that spill document the following: Soil contamination up to 145,800ppb Total BTEX that was left in place after a tank upgrade around 1/95; Soil contamination left in place around the dispenser islands up to 21,870ppb Total BTEX; Soil contamination around the former waste oil UST left in place up to 139ppb Total BTEX; Removal of 701 tons of contaminated soil during this upgrade; Groundwater at depths of 12−15'bg; measured groundwater flow to the southeast; attenuation of groundwater samples (including those down−gradient of former tanks, dispensers, waste oil tanks) from 9/94 through 1/04; groundwater levels in 1/04 that were within natural attenuation ranges as per prior guidance from DEC Central office; no sensitive down−gradient receptors (commercial grocery store down−gradient with basement likely above water table). This spill closed as this spill was for discovery of contaminated soils around the former UST pad (already historically documented via closed spill 9212043) and contaminated soils around remote fill port (which were excavated fully to below Unrestricted SCOs) as per Speedway. Spill also closed as down−gradient impact of spills previously documented under spill 9212043 to be naturally attenuating and spill is not a threat to the wider community as per guidance from DEC Central Office. Spill also closed and soil contamination removal not feasible as per CP−51 Guidance and prior guidance from DEC Central Office. Furthermore site also has a sale agreement restriction to only commercial industrial use on ground floors and notes a vapor barrier/mitigation system will be installed if the property is ever developed as residential. Spill also closed as Spill Closure letter to include standard cautionary statement on possible necessity of vapor mitigation if site use ever changes. Spill also closed as all source USTs and piping are no longer being used and as such no petroleum source remains. Vought added summary site plans to D2. Vought sent email to Speedway (Butler) with cc to Envirotrac (Rennnie and Russo) that Matt, Thanks for your patience on the review. Unfortunately Veronica has not been feeling well and has been out of the office for the past week. Due to the impending property transaction, I have reviewed the files you sent as well as the current data, and the Department has closed the above referenced spill effective today. What is the address for the Spill Closure letter? Thanks .

12/6/16−Vought−Received reply from Butler that Jeff, Thanks for the review, I understand you guys have heavy case loads. Please send the NFA letter to our corporate office to my attention.

Speedway LLC 500 Speedway Drive, Enon, OH 45323

Could you also please email me a copy of the NFA letter? Thanks Vought drafted Spill Closure letter, added to D2, sent via US Mail, and sent via email to Butler with cc to Rennie and Russo.

2/22/17−Vought−Received email from DEC Rivera on 2/22/17 that Good Morning,I received an inquiry from the Assemblyman´s office where this site is. It seems to be a former Hess gas station that is now gated. They are asking if we have anything on file at this site or any info on what´s going on here. Does the address pop up in anyone´s program? RSE replied to Rivera with copy of these spill notes.

Map Identification Number 178 **PATTERSON HOUSES −NYCHA** **Spill Number: 0506695** **Close Date: 12/30/2009**
301 EAST 143RD STREET BRONX, NY TT−Id: 520A−0012−081

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2594 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10451

Source of Spill: PRIVATE DWELLING
Spiller: FRANK INOA
Spiller Phone: (718) 707−5718
Notifier Type: Responsible Party
Notifier Name: FRANK INOA
Notifier Phone: (718) 707−5718
Caller Name: FRANK INOA
Caller Agency: NYC HOUSING AUTHORITY
Caller Phone: (718) 707−5718
DEC Investigator: jkkann
Contact for more spill info: FRANK INOA
Contact Person Phone: (718) 707−5718

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/31/2005		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

TANK REMOVAL, SOIL BORINGS WERE DONE AND CAME BACK SHOWING CONTAMINATION

DEC Investigator Remarks:

11/1/05: This spill transferred from J.Kolleeny to S.Kraszewski.

9/22/06: Spill transferred from Kraszewski to Kann.

12/30/09: J.kann − spill consolidated with 8906597

Map Identification Number 179 **STAINED SOIL FOUND IN EXCAVATION** **Spill Number: 0709365** **Close Date: 12/28/2007**
EAST 138 STREET & EXTERIOR STREET BRONX, NY TT−Id: 520A−0212−769

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 2595 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: E 138TH ST / EXTERIOR ST
Revised zip code: 10451

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: ERTSDESK − CON EDISON
Spiller Phone: (212) 580−8383
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: gdbreen
Contact for more spill info: ERTSDESK
Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/29/2007		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIESEL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

FOUND WHILE ON SITE AND IT HAD DISCOLORED SOIL AND ODOR.

209007

DEC Investigator Remarks:

12/28/07 − See eDocs for Con Ed report detailing cleanup and closure. 209007. see eDocs

Map Identification Number 180 **15 WEST 139 STREET** **Spill Number: 0410113** **Close Date: 04/26/2005**
15 W 139TH ST MANHATTAN, NY TT−Id: 520A−0093−634

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2638 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: PRIVATE DWELLING
Spiller: AXELROD MGMT
Spiller Phone:
Notifier Type: Local Agency
Notifier Name: RENEE LEWIS
Notifier Phone: (718) 378−7000 ext. 1
ext: 15
Caller Name: RENEE LEWIS
Caller Agency: EASTMAN & SONS
Caller Phone: (718) 378−7000 ext. 1
ext: 15
DEC Investigator: CESAWYER
Contact for more spill info: DAVID
Contact Person Phone: (212) 368−8110

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/10/2004		UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

917−299−7257 is the callback number.

DEC Investigator Remarks:

04/26/05 − Sawyer − Repairs done, tank tested and passed. There was no contamination detected. No further action required for this spill. Closed.

CLOSED STATUS HAZARDOUS SPILLS − MISC. SPILL CAUSES − EQUIPMENT FAILURE, HUMAN ERROR, TANK OVERFILL, DELIBERATE SPILL, TRAFFIC ACCIDENT, HOUSEKEEPING, ABANDONED DRUM, VANDALISM AND STORMS − WITHIN 1/2 MILE SEARCH RADIUS.
All spills mapped and profiled within 1/8 mile. Between 1/8 mile and 1/2 mile search radius, spills reported to be greater than 100 units and spills reported in the NYSDEC Fall 1998 MTBE Survey are mapped and profiled. Spills reported to be less than 100 units are listed in a table at the end of this section.

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 181 **USPS VEHICLE MAINT. FAC.** **Spill Number: 9213223** **Close Date: 05/11/2001**
580 GERARD AVENUE NEW YORK CITY, NY TT−Id: 520A−0010−606

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 0 feet

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL Spiller: GERARD AVE VMF Spiller Phone:
Notifier Type: Other Notifier Name: Notifier Phone:
Caller Name: BOB SKRIVANUEK Caller Agency: U.S. POSTAL Caller Phone: (212) 330−3123
DEC Investigator: SJMILLER Contact for more spill info: Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/27/1993		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	POUNDS	0.00	POUNDS	AIR

Caller Remarks:

EXCAVATING TANK AT 580 GERARD, FOUND GASOLINE ODOR, TANKS ARE BEING REMOVED, VENTING AREA, WILL CONTRACT FOR ENGINEERING SVC. & REPAIR. ON MONDAY WILL COME BACK TO REMOVE ALL CONTAMINATION AND SOIL.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was MILLER 5/11/2001, OFF HOURS REPORT REASSIGNED FROM TANG TO RESPONDER MILLER. CROSS−REFERENCE TO SPILL REPORT NO. 9007668: SAME FACILITY. ACCORDING TO ATC REPORTS: NINE 550GAL GASOLINE USTS WERE REMOVED IN 1993 WITH APPROX. 22 TONS OF CONTAMINATED SOIL. 2000 SUBSURFACE INVESTIGATION SHOWED NO VISUAL, NO OLFACTORY, VERY LOW PID EVIDENCE OF CONTAMINATION/RELEASE; SOIL ANALYSIS SHOWED NON−DETECT FOR VOCS & PAH LEVELS WERE CONSISTENT WITH OBVIOUS FILL MATERIAL (i.e., COAL/ASPHALT); GROUND WATER ANALYSIS SHOWED NON−DETECT/TRACE PAHS & NON−DETECT/VERY LOW VOCS.

Map Identification Number 182 **IN SEWER OR VAULT** **Spill Number: 9909080** **Close Date: 10/29/1999**

GERARD AV & E150TH ST BRONX, NY TT−Id: 520A−0010−608

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 213 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: GERARD AV / E 150TH ST
Revised zip code: 10451

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	RICHARD ROACH − CON EDISON		Spiller Phone: (212) 580−6763
Notifier Type:	Local Agency	Notifier Name:	RICHARD ROACH		Notifier Phone: (212) 580−6764
Caller Name:	JACK ILER	Caller Agency:	US COAST GUARD		Caller Phone: (718) 354−4136
DEC Investigator:	CAENGELH	Contact for more spill info:	RICHARD ROACH		Contact Person Phone: (212) 580−6763

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/26/1999		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	130.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

transformer leaked causing spill of product into sewer or into a vault − was an under ground transformer − unk what is being done for clean up

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was ENGELHARDT Same as 9909034 so closed. 130 gallon figure was determined based on what was removed from difference between transformer capacity and the combined amount removed from the vault

and the transformer. The rest is either sorbed into the sediment in the vault or is assumed to have escaped to the sewer.

Map Identification Number 183 **MANHOLE 4513** **Spill Number: 9908955** **Close Date: 02/22/2002**
EAST 15TH ST − GERARD AVE BRONX, NY TT−Id: 520A−0010−609

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 213 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: GERARD AV / E 150TH ST
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Responsible Party
Caller Name: BILL MURPHY
DEC Investigator: CAENGELH

Spiller: CON EDISON
Notifier Name: MR BUCCI
Caller Agency: CON EDISON
Contact for more spill info: BILL MURRAY

Spiller Phone:
Notifier Phone: (914) 925−6211
Caller Phone: (212) 580−6763
Contact Person Phone: (212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/23/1999		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	1.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

SPILL FROM A CABLE ABOUT 8 OUNCES SPILL IS IN THE PROCESS OF BEING CLEANED UP CON EDISON REF 128609

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was ENGELHARDT

Map Identification Number 184 **MAN HOLE #4513** **Spill Number: 0311499** **Close Date: 03/10/2004**
GERALD AVE AND 150ST. BRONX, NY TT−Id: 520A−0010−610

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 213 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: GERARD AV / E 150TH ST
Revised zip code: NO CHANGE

Source of Spill:	UNKNOWN	Spiller:		Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:	MR. FISHER	Notifier Phone:	(212) 580−6763
Caller Name:	ANDREW MORRIS	Caller Agency:	CON ED	Caller Phone:	(212) 580−6763
DEC Investigator:	JHOCONNE	Contact for more spill info:	MR.KINDBERG	Contact Person Phone:	(212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/12/2004		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	2.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

ABOUT 2 OUNCES OF DIELECTRIC FLUID WAS SPILLED. THE SPILL IS NOW CONTAINED

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was O'CONNELL e2mis no. 151699:

12−Jan−2004 11:00 hrs Sr. Engineering Tech G. Graci (42890) while inspecting feeder 2X08 located in manhole 4513, reports finding ~ 2 oz dielectric fluid leaking from abandoned piece of 3c600 PILC cable coming out from the duct. Crew took sample for PCB.

Lab Sequence Number: 04−00225−001 PCB 5 PPM

1/15/04 the abandoned piece of 3c600 PILC cable coming out from the duct was sealed.

1/20/04 Flush mechanic Esham Gafur reports structure was double washed with Bio−gen 760. All waste water was taken into vactor. Crew took 800 lbs of lead hazardous waste into vactor truck. The structure has a cement sump and there is NO sewer connection. The source of the oil was a open end of an abandoned piece of 3c600 PILC cable. This has been sealed.

Map Identification Number 185 **HARLEM FURNITURE** **Spill Number: 1205845** **Close Date: 05/24/2016**
620 GERARD AVE BRONX, NY TT−Id: 520A−0277−915

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 262 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: HARLEM FURNITURE
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: TJDEMEO
Contact for more spill info: ISSAC LEVEANE
Contact Person Phone: (718) 401−1900

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/03/2012		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	5.00	GALLONS	0.00	GALLONS	

Caller Remarks:

spill to paved area/FD had put speedy dry down

DEC Investigator Remarks:

09/12/12−Zhune spoke to Xi Chen (646)763−2597. he said the Bronx Borough president wrote a letter. DEP received that letter. DEP−Xi Chen responded to this spill. As per Xi Chen there are heating oil residual on the sidewalk at this address.

09/12/12− Zhune discussed with Randy Austin. As per Randy not immedialtly response nedded. Site can be visited next time when someone is in the bronx.

12/19/12 AFrischeisen Spoke with Xi Chen from NYC DEP Hazmat: stone slab protruding from the building with a locked valve line on top, possibly for fuel deliveries. 1 or 2 gallons of product found next to it. Fire Dep put SpeedyDry on it, no new oil coming out. Furniture store is renting and does not have access to basement. TTF Letter sent and upped to eDocs.

5/24/16 TJD File review. FDNY & NYCDEP both previously involved in initial response of sidewalk spill, reported as 5 gallons #2 FO. Discharge estimate was later updated to 1−2 gallons by NYCDEP. Spill administratively closed based upon age and nature of complaint.

Map Identification Number 186 **138 EAST 150TH STREET** **Spill Number: 9310947** **Close Date: 12/10/1993**
138 EAST 150TH STREET BRONX, NY TT−Id: 520A−0008−180

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 369 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: PRIVATE DWELLING
Spiller: UNK
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: PETE LEPORE
Caller Agency: WHALECO
Caller Phone: (718) 852−7000
DEC Investigator: CAMMISA
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/09/1993	12/10/1993	TANK OVERFILL	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	5.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

VENT ALARM BROKE − TANK WAS ALREADY PULL. SENDING SOMEONE THERE TO CHECK IT OUT. THEN WILL CLEAN UP, SPEEDY DRY − WILL BE USED − BAG IT & DISPOSE OF IT.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 187 **APART** **Spill Number: 0805192** **Close Date: 08/13/2008**
175 EAST 151 STREET BRONX, NY TT−Id: 520A−0220−320

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 404 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: 175 E 151ST ST
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	LEON BATTISTE − APART	Spiller Phone:	
Notifier Type:	Local Agency	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	HRAHMED	Contact for more spill info:	LEON BATTISTE	Contact Person Phone:	(718) 585−7019

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
08/05/2008		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

ongoing near fillport:

DEC Investigator Remarks:

Sangesland left a voice message with Leon Battiste to call back with more information on the problem with the oil fill port at the building. ***Site visit may be required***

08/13/08−HRAHMED−DEC Ahmed responded to the site on 08/12/08. Niticed oil stain around the fill port on sidewalk. Met with building cleaner James. Ahmed told James that they need to clean the oil stain around the fill port. He asked Ahmed to call the building Management at 718 548 8800. Ahmed called that number and spoke to Meben and told about the requirements to clean the fill port. She told that she would email her boss to arrange cleanup. After cleanup she would call DEC Ahmed to report the cleanup. When Ahmed was leaving the site, he saw James trying to cleanup the stain with a shovel. Ahmed took some pictures and uploaded to eDocs. Since its only a minor stain, as per field observation, this case is closed.

Map Identification Number 188 **611 GRAND CONCOURSE** **Spill Number: 9209173** **Close Date: 03/22/1995**
611 GRAND CONCOURSE BRONX, NY TT−Id: 520A−0008−111

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 457 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION OR PBS FACILITY
Spiller:
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name: JERRY GARNETT
Caller Agency: MOBIL OIL
Caller Phone: (913) 752−7495
DEC Investigator: O'DOWD
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/06/1992	03/22/1995	EQUIPMENT FAILURE	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	SOIL

Caller Remarks:

ALRM SYSTEM INDICATED LEAKS AT ALL PROBE SITES

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 189 **611 GRAND CONCOURSE/MOBIL** **Spill Number: 8902680** **Close Date: 03/21/1991**
611 GRAND CONCOURSE NEW YORK CITY, NY TT−Id: 520A−0007−942

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 457 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: UNKNOWN
Spiller Phone:
Notifier Type: Tank Tester
Notifier Name:
Notifier Phone:
Caller Name: DAN RODDEN
Caller Agency: TYREE BROS
Caller Phone: (516) 249−3150
DEC Investigator: SULLIVAN
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	PBS # Involved	Meets Cleanup Standards	Penalty Recommended
06/05/1989	03/21/1991	HUMAN ERROR	2−156299	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	−1.00	UNKNOWN	0.00	UNKNOWN	GROUNDWATER

TANK TEST INFORMATION

Tank Number	Tank Size	Tank Test Method	Leak Rate	Gross Leak or Failure
		Unknown	0.00	UNKNOWN

Caller Remarks:

DOING EXCAVATION OF TANKS, APPROXIMATELY 400 YDS OF CONTAMINATED SOIL TO BE REMOVED.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 190 **MOBIL GAS STATION** **Spill Number: 1510416** **Close Date: 01/25/2016**

611 GRAND CONCOURSE BRONX, NY TT−Id: 520A−0313−122

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 457 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION OR PBS FACILITY
Notifier Type: Other
Caller Name:
DEC Investigator: HRAHMED

Spiller: ALLIANCE AND GLOBAL − − ALLIANCE AND GLOBAL
Notifier Name:
Caller Agency:
Contact for more spill info: ALLIANCE AND GLOBAL −

Spiller Phone:
Notifier Phone:
Caller Phone:
Contact Person Phone: (781) 674−7780

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/22/2016		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	1.00	GALLONS	0.00	GALLONS	

Caller Remarks:

into containment − cleanup done −

DEC Investigator Remarks:

01/25/16− Ahmed − Spoke to Merly Diaz (888−302−4875) at ESF. As per her, the nozzle of a pump island didn't stop after a customer was done with filling up the gas tank due to mechanical failure. The gas station operator shutoff the pump island valve and took the island out of service until they fix the problem. 1 gallon of regular grade gasoline spilled on concrete and was cleaned up by absorbent.

Spill closed.

Map Identification Number 191 **GAS STATION** **Spill Number: 1214560** **Close Date: 02/22/2013**
611 GRAND CONCOURSE BRONX, NY TT−Id: 520A−0280−864

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 457 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: ISLAND TRANSPORTATION
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: SFRAHMAN
Contact for more spill info: FF KEARNEY
Contact Person Phone: (347) 203−6886

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/13/2013		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	75.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

1 transformer vault − cleanup in progress

DEC Investigator Remarks:

01/14/13 Spoke with FD and ConEd. Approx. 70 gallon spilled on the concrete surface due to equipment malfunction. No soil or sewer drain was impacted.Island Transportation performed the clean up. The operator of the station retained Island Pump and Tank

to check the UST system and it passed. Therefore, the station was not shut down.I spoke with Ted Norelius, 516−782−6020 and he told me that the UST system is ok.(sr) Austin − Note: see also spill # 1214561, which is Con Ed's report for the same event, and details their cleanup operaton − end

Map Identification Number 192 **AMOCO** **Spill Number: 9708729** **Close Date: 11/07/1997**
99 EAST 149TH ST BRONX, NY TT−Id: 520A−0008−685

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 475 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION OR PBS FACILITY
Spiller: AMOCO GAS STATION AT
Spiller Phone:
Notifier Type: Citizen
Notifier Name: MR TIM WILLIAM
Notifier Phone: (917) 923−7031
Caller Name: SUSAN
Caller Agency: DEP
Caller Phone: (718) 595−6777
DEC Investigator: MMMULQUE
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/25/1997		DELIBERATE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
WASTE OIL/USED OIL	PETROLEUM	0	GALLONS	0	GALLONS	SEWER

Caller Remarks:

CALLER STATES SOMEONE AT GAS STATION WAS DUMPING OIL INTO SEWER

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was MULQUEEN 10/30/97 mmm:INSPECTED STATION AND LUBE FACILITY. FOUND NO EVIDENCE OF DELIBERATE DUMPING.

Map Identification Number 193 **212353; GERARD AVENUE AND EAST 151 STREET** **Spill Number: 0814269** **Close Date: 10/07/2009**
GERARD AVENUE AND EAST 151 STREET NEW YORK, NY TT−Id: 520A−0248−082

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 537 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: GERARD AVE / E 151ST ST
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: ERT DESK − CON EDISON
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: DMPOKRZY
Contact for more spill info: ERT DESK
Contact Person Phone: (212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/08/2008		EQUIPMENT FAILURE		

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	0	GALLONS	0	GALLONS	UTILITY

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 194 **212325; GERARD AVENUE AND E151 STREET** **Spill Number: 0814261** **Close Date: 10/20/2008**
GERARD AVENUE AND E151 STREET NEW YORK, NY TT−Id: 520A−0248−080

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 537 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: GERARD AVE / E 151ST ST
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: ERT DESK − CON EDISON
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: DMPOKRZY
Contact for more spill info: ERT DESK
Contact Person Phone: (212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/07/2008		EQUIPMENT FAILURE		

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	0	GALLONS	0	GALLONS	UTILITY

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 195 **GRAND CONCOURSE REALTY CO** **Spill Number: 0007591** **Close Date: 10/01/2004**
557 GRAND CONCOURSE BRONX, NY TT−Id: 520A−0007−285

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 568 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Local Agency
Caller Name: BRUCE BECK
DEC Investigator: KMFOLEY

Spiller: BRUCE BECK − WOLF PETROLEUM
Notifier Name: BRUCE BECK
Caller Agency: NATIONAL ENVIRONMENTAL
Contact for more spill info: BRUCE BECK

Spiller Phone: (631) 226−9080
Notifier Phone: (631) 422−3370
Caller Phone: (631) 422−3370
Contact Person Phone: (631) 226−9080

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/27/2000		TANK OVERFILL	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
WASTE OIL/USED OIL	PETROLEUM	0	GALLONS	0	GALLONS	SOIL

Caller Remarks:

tank was either overfilled or failed

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was K FOLEY

12/4/03 Reassigned from Sangesland to Foley. Wolf Petroleum site.

2/24/04 File review(KMF): 2/6/01 UST closure report submitted by National Environmental for 1 550gal waste oil UST. Minor SVOC and lead issues. During excavation, 2 endpoint samples showed slightly above STARs. 1 composite sidewall sample was higher in SVOCs.

Subsequent borings show ND or under MDLs for VOC/SVOC when tested by TCLP. These borings were taken 8−10' below bottom of excavation.

10/1/04 NFA mailed.

Map Identification Number 196 **207264; SWC GERARD AVE & E149 ST** **Spill Number: 0890157** **Close Date: 08/07/2007**

SWC GERARD AVE & E149 ST BRONX, NY TT−Id: 520A−0218−375

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 571 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: GERARD AVE / E 149TH ST
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	ERT DESK − CON EDISON	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:		Notifier Phone:	
Caller Name:		Caller Agency:		Caller Phone:	
DEC Investigator:	Unassigned	Contact for more spill info:	ERT DESK	Contact Person Phone:	(212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/29/2007		EQUIPMENT FAILURE		

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	0.25	GALLONS	0.00	GALLONS	UTILITY

Caller Remarks:

MH4506 1 quart of cable oil on concrete floor of structure Closed: Agency Approval Not Required

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 197 **MANHOLE#4510** **Spill Number: 0406667** **Close Date: 09/21/2004**
EAST 149 ST/GERARD AVE BRONX, NY TT−Id: 520A−0010−595

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 571 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: E 149TH ST / GERARD AVE
Revised zip code: NO CHANGE

Source of Spill: UNKNOWN
Notifier Type: Other
Caller Name: TOM MARCINEK
DEC Investigator: JHOCONNE

Spiller: ERT DESK − MANHOLE#4510
Notifier Name: TOM MARCINEK
Caller Agency: CON ED
Contact for more spill info: ERT DESK

Spiller Phone: (212) 580−8383
Notifier Phone: (212) 580−6763
Caller Phone: (212) 580−6763
Contact Person Phone: (212) 580−8383

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/09/2004		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	0	UNKNOWN	0	UNKNOWN	SOIL
DIELECTRIC FLUID	PETROLEUM	0	POUNDS	0	POUNDS	SOIL

Caller Remarks:

1/2 gallon spilled.poor seal on end of cable caused the spill.no smoke,fire,sewers,or waterways affected.the 1/2 pint was discovered at 9:30 this morning.they recapped it to stop the leak

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was O'CONNELL e2mis no. 155286:

1 pt. of oil from a leaking cable end cap seal onto concrete contained in MH 4510.

Lab Sequence Number: 04−07201−001 PCB 30 ppm.

At 10:30 UG Env. Mech A Ed Cedeno and R. Fontan started cleanup. O/S Charles D'Alisera capped and sealed leaking cable ends.

9/10/04 1300 hrs. UG Env Mech A Ed Cedeno 03384 reports CFS removed 60 gals of liquid to be transported and disposed of at Astoria TSDF and Flush 200 Lbs solids to transport to Hellgate Flush facility. Double washed and rinse with 760 bio−gen solution. Cable ends were sealed.

17−SEP−2004 10:00 hrs. Incident being re−opened due to re−leak of sealed cable ends. U/G Supervisor G. Meiers 14850 reports sealed ends have re−leaked and 1/2 pt. of dielectric fluid has leaked onto recently cleaned MH concrete floor. Cable ends have been re−sealed with larger sealing boot preventing further cable end dielctric fluid leakage. Crew is starting cleanup as of 10:30hrs.

17−SEP−2004 11:47 hrs U/G Supervisor G. Meiers 14850 reports cleanup completed. Affected area of concrete manhole floor was spot cleaned. Area was double washed using 760 biogen soap and absorbants.

Map Identification Number 198 **MAJOR DEEGAN EXPRESS WAY** **Spill Number: 9815541** **Close Date: 01/22/2003**

NEAR 150TH ST BRONX, NY TT−Id: 520A−0014−274

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 638 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: MAJOR DEEGAN EXPRESSWAY
Revised zip code: 10451

Source of Spill:	COMMERCIAL VEHICLE	Spiller:	UNKNOWN	Spiller Phone:	
Notifier Type:	DEC	Notifier Name:	OFFICE LUM	Notifier Phone:	
Caller Name:	STEVE SANGESLAND	Caller Agency:	DEC REG 2	Caller Phone:	(718) 776−6080
DEC Investigator:	SMSANGES	Contact for more spill info:	STEVE SANGESLAND	Contact Person Phone:	(718) 776−6080

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Unable or Unwilling RP − DEC Field Response − DEC Corrective Action Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/31/1999		TRAFFIC ACCIDENT	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	100.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was SANGESLAND

Map Identification Number 199 **NYC DEPT CORRECTIONS** **Spill Number: 9704401** **Close Date: 07/14/1997**
653 RIVER AVE BRONX, NY TT−Id: 520A−0008−650

MAP LOCATION INFORMATION
Site location mapped by:
Approximate distance from property: 654 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10451

Source of Spill: COMMERCIAL VEHICLE
Spiller: CASTLE OIL CO
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name: DRIVER
Notifier Phone:
Caller Name: JANET MATOS
Caller Agency: CASTLE OIL COMPANY
Caller Phone: (718) 579−3413
DEC Investigator: LUCE
Contact for more spill info: FRANK
Contact Person Phone: (718) 579−4359

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/14/1997		HUMAN ERROR	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	5.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

driver was told by engineer to hook up to the wrong tank

spill to concrete spill contained cleanup crew enroute

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 200 **BRONX DETENTION CENTER** **Spill Number: 0103521** **Close Date: 06/01/2006**
653 RIVER AVE BRONX, NY TT−Id: 520A−0007−382

MAP LOCATION INFORMATION
Site location mapped by:
Approximate distance from property: 654 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10451

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: OFFICER MCNAMARA − BRONX DETENTION CENTER
Spiller Phone: (718) 579−4342
Notifier Type: Local Agency
Notifier Name: OFFICER MCNAMARA
Notifier Phone: (718) 579−4342
Caller Name: EDDIE GRUBER
Caller Agency: DEP
Caller Phone: (718) 595−6700
DEC Investigator: MJHAGGER
Contact for more spill info: OFFICER MCNAMARA
Contact Person Phone: (718) 579−4342

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/01/2001		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	3000	GALLONS	0	GALLONS	SOIL

Caller Remarks:

spiil breather tube to the outside.poss 1200 gal got into sewers that lead to hudson river...per fdny haz−mat 1

DEC Investigator Remarks:

04/19/06 − Rec'd a letter from the NYC Dept. of Design and Construction indicating that the building is owned by the NYC Department of Correction, 7th Floor, 60 Hudson Street, NY, NY 10013−4393, Attn: Assistant Commissioner Joseph Ruggiero.

11/21/05 − Called NYC DOC and spoke to Marcia O'Connor ((718−546−3091). She will check their records for a spill cleanup report or a billing which shows what cleanup was done.

Prior to Sept, 2004 data translation this spill Lead_DEC Field was M TIBBE

6/1/2006 − Previously spoke to Andrew Bowie (718−546−2805) from NYC Correction. He mailed the Tank Closure report with soil and

groundwater samples. Few small exceedances to recommended soil and groundwater objectives. Contaminated soil properly disposed of. Spill closed

Map Identification Number 201 **149TH ST & GRAND CONCOURS** **Spill Number: 9308715** **Close Date: 10/20/1993**
149TH ST & GRAND CONCOURS BRONX, NY TT−Id: 520A−0009−167

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 764 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: E 149TH ST / GRAND CONCOURSE
Revised zip code: 10451

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: SAME
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name: JOSEPH STREANY
Caller Agency: METRO NORTH
Caller Phone: (212) 340−2096
DEC Investigator: MCTIBBE
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/18/1993	10/20/1993	VANDALISM	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
PCB OIL	PETROLEUM	150.00	GALLONS	0.00	GALLONS	SOIL
TRANSFORMER OIL	PETROLEUM	0	UNKNOWN	0	UNKNOWN	SOIL

Caller Remarks:

VANDALS BROKE DRAIN VALVE. CLEAN UP CREW ON SCENE. NO OTHER AGENCIES NOTIFIED CLEANED BY SPILLER.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE

Map Identification Number 202 **730 GRAND CONCOURSE** **Spill Number: 9414927** **Close Date: 02/24/1995**
730 GRAND CONCOURSE BRONX, NY TT−Id: 520A−0010−600

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 1249 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: COUNTY OIL
Spiller Phone: (718) 626−7000
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name: DAVID POSNER
Caller Agency: COUNTY OIL COMP.
Caller Phone: (718) 626−7000
DEC Investigator: ADZHITOM
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/13/1995	02/24/1995	TANK OVERFILL	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	100.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

DRIVER WAS FILLING THE TAK FOR AN APARTMENT COMPLEX AND OVERFILLED THE TANK− ABSORBENTS WERE PUT DOWN− UNK IF PICKED UP

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was ZHITOMIRSKY

Map Identification Number 203 **VAULT # 612** **Spill Number: 1103540** **Close Date: 01/31/2012**
EAST 146 ST AND PARK AVE BRONX, NY TT−Id: 520A−0263−127

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 1485 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: E 146TH ST / PARK AVE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: CON EDISON
Spiller Phone:
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: RMPIPER
Contact for more spill info: ERT
Contact Person Phone: (212) 580−8383

Category: Possible petroleum release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters, known releases with no potential for damage, or non−petroleum/non−hazardous spills.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/29/2011		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DIELECTRIC FLUID	PETROLEUM	300.00	GALLONS	0.00	GALLONS	SOIL, SEWER

Caller Remarks:

clean up crew being contacted at this time

DEC Investigator Remarks:

Due to vandalism, 3oo gal of dielectric fluid from 3 transformers was lost to subsurface. Vault had drain on it. unsure where it leads. Building is scheduled to be raised. As well as vault.

Final Emis submitted. No further action warranted.

Map Identification Number 204 **MAN HOLE #640** **Spill Number: 0302730** **Close Date: 07/09/2003**
RIDER AVE / E 143RD ST BRONX, NY TT−Id: 520A−0014−243

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 1966 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: SCHLAGEL − CON EDISON
Spiller Phone: (212) 580−6763
Notifier Type: Responsible Party
Notifier Name: GERRY MCCARTHY
Notifier Phone:
Caller Name: SEAN MCKEEVER
Caller Agency: CON EDISON
Caller Phone: (212) 580−6763
DEC Investigator: SKARAKHA
Contact for more spill info: SEAN MCKEEVER
Contact Person Phone: (212) 580−6763

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
06/13/2003		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
TRANSFORMER OIL	PETROLEUM	200.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

spill due to a problem with a transformer − clean up is pending the deenergizing of the area − coned # 148732 − spill is contained

DEC Investigator Remarks:

E2MIS 148732

13−June−2003 @ 17:17 hrs. Underground Environmental Mechanic 'A' Orlando Negron, 18400 reports finding 200 gal. transformer oil on 200 gals. of water. No sewers, waterways or privatee property affected, No smoke or fire is or was involved. No injuries at this location. The weather is not a factor. Environmental tag #32977 installed. Lab. sample taken. Clean up pending de−energizing and isolating the TM.

13−June−2003 20:32 ERT D.Pontecorvo 85413 reports that while on location with the DEP W. Wong and Undergrnd Superv T.Guion 11930 remeasured the oil in the hole and determined it to be 8 gallons. The transformer has a hole in it and will be dropped from Fdr 2X24 on a Category II on the midnight shift due to the Yankee game. The location will be manned until cleanup is initiated due to the DEP requesting it. D.Rohrer 12788

12−June−2003 20:52 As per notification matrix−Shift Manager Curley 24670 stated that GM Al Homyk 71268 be notified and was due to the DEP visit and Sect Manager J.McCabe 00305 was as well.

Aroclor 1242 < 1.0 ppm EPA 608/8082 Aroclor 1254 < 1.0 ppm EPA 608/8082 Aroclor 1248 < 1.0 ppm EPA 608/8082 Aroclor 1260 22.2 ppm EPA 608/8082

14−June−2003 05:40 Fdr 2X24 was unable to be deenergized due to a location with a no access problem and they will attempt to gain access again this morning−6/14. DEP was updated on status by ERT.

16−Jun−2003− 08:30 hrs CFS tanker dispatched to drain unit TM−640.

16−Jun−2003 14:00 hrs CFS tanker drained the unit and remaining liquid from structure. The tanker took ~190 gallons of oil from the unit and 500 gallons of liquid from the structure. Partial clean up completed. Transformer to be replaced on Friday 6/20/03

L Fischer 55784

19−June−2003 08:20 As per B.Markert−will need tanker for Monday−6/23/03−unable to perform cleanup on Friday.

23−JUN−2003 16:18 Environemental Flush Mech A O. Negron 18400 reports cleanup complete. Mr. Negron and Mech B M. Derasmo 86558 double washed and rinsed the structure. The defective transformer was removed and a CFS tanker removed 450 gallons of liquid waste to be transported to Astoria WWTP. 2000 pounds of solid waste removed to be transported to Hellgate Flush Pit. Cleanup complete.

Map Identification Number 205 **318 GRAND CONCOURSE/BX** **Spill Number: 8905553** **Close Date: 09/06/1989**
318 GRAND CONCOURSE NEW YORK CITY, NY TT−Id: 520A−0007−953

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2190 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION OR PBS FACILITY
Spiller: I P T TRUCKING
Spiller Phone: (718) 327−8855
Notifier Type: Fire Department
Notifier Name:
Notifier Phone:
Caller Name: DIST 309
Caller Agency: NYCPD
Caller Phone: (212) 665−2200
DEC Investigator: SIGONA
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
09/06/1989	09/06/1989	TANK OVERFILL	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
GASOLINE	PETROLEUM	1000	GALLONS	0	GALLONS	SEWER

Caller Remarks:

SPILL IN SUBWAY SYSTEM, NYCFD HAZMAT ON SCENE,

DEC Investigator Remarks: DEC INVESTIGATOR REMARKS NOT AVAILABLE FOR THIS SPILL ACCORDING TO THE LAST UPDATE.

The following DEC Investigator Remarks were available prior to 1/1/2002:

09/06/89: NYCFD HAZMAT, NYCPD ON SCENE, TYREE BROS CLEANED UP SPILL WITH A VAC TRUCK, NYSDEC (SIGONA) RESPONDED & INSPECTED CLEAN UP.

Map Identification Number 206 **GETTY S/S #58409 − GETTY PROPERTIES** **Spill Number: 9713385** **Close Date: 07/28/2017**
119 W. 145TH ST MANHATTAN, NY TT−Id: 520A−0098−811

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2372 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: GASOLINE STATION OR PBS FACILITY
Spiller: GETTY GASOLINE 58409
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name: BRIAN DEVOE
Caller Agency: TYREE BROS.
Caller Phone: (516) 249−3150
DEC Investigator: RJWHITCH
Contact for more spill info: CALLER
Contact Person Phone: (516) 249−3150

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/03/1998	06/03/2003	EQUIPMENT FAILURE	NO	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

Caller Remarks:

TANK UNGRADE, FOUND CONTAMINATION.

ORIGINAL SPILL ASSIGNED TO O'DOWD.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT 3/14/03 REASSIGNED FROM ROMMEL TO VOUGHT.

6/27/2003−Vought−File review by Vought:

Tank Upgrade Report−Dec 1998−Tyree Brothers Environmental Services (Paul Hatcher 631−249−3150)− Adjoining six−story building to the west, adjoining two story buiildings to the east and north. Merit service station across W145th Street. Four (4000−gallon) gasoline USTs upgraded. Soil excavated to approximate depth of 3' below grade. Six soil endpoint soil samples taken (analyticals provided). Soil analyticals show concentrations up to 47000ppb toluene (S5), 1603000ppb xylene, 88800 ppb napthalene and 19300ppb MTBE. 84.24 tons of soil excavated and removed (disposal manifest provided).

Subsurface Investigation Report−Dec 2000−Tyree−Eleven soil borings performed using Geoprobe. Perched groundwater was encountered at approximate depths of 10−15bls . Soil analyticals show concentrations up to 8060ppb benzene (SB7), 288000ppb toluene, 16200ppb MTBE (SB8), 70300ppb napthalene. Groundwater analyticals show up to 6470ppb benzene, 29600ppb toluene, and 172000ppb MTBE.

Quarterly Monitoring Reports−March 2001 thru Sept 2001. Four monitoring wells on−site. Remedial activities are EVR/Remediation Assessment. Two additional wells installed in 7/1. Groundwater concentrations up to 3820ppb benzene (W1), 1770ppb toluene(W1), 26940ppb xylene (W5) and 445000ppb MTBE (W4).

Pilot Test Report and SVE and DPE−Nov 2002−Tyree−See RAP comments (June 2003) for pilot test results. Tyree proposes DPE due to higher radius of influence than SVE.

3/29/2003−Vought−Received email from Paul Hatcher that 2 of product was found in W5. Product was bailed. Monitoring and bailing began weekly.

Quarterly Monitoring Reports−Oct 2002 thru Dec 2001. Six monitoring wells on−site. Remedial activities are EVR/Remediation Assessment. Free product (.02') in W2. Groundwater concentrations up to 2100ppb benzene (W1), 6180ppb xylene (W5) and 348000ppb MTBE (W4).

Letter to NYSDEC−Feb 18, 2003−Letter sent to NYSDEC by Tyree requesting Stipulation Agreement so that Tyree could proceed with proposed system design and installation. In letter Tyree states that they previously submitted a Soil Vapor Extraction and Dual Phase Extraction Pilot Test in Nov 2002.

4/17/2003−Vought sent Stipulation, CAP, Guidance Document and cover letter to Kevin Shea (Getty Properties).

6/3/2003−Vought−Received signed stipulation agreement from Getty.

Quarterly Monitoring Reports−Jan 2003 thru March 2003−Tyree−Six monitoring wells on−site. Groundwater concentrations up to 3550ppb benzene(W1), 2330ppb toluene(W1), 12700ppb xylene(W4) and 59800ppb MTBE. No free product in wells. Four dual phase extraction wells (DPE) wells were installed for future remediation system. Borings logs and soil analyticals provided. Soil concentrations up to 2180ppb benzene(E4), 3740ppb toluene(E4) and 4140ppb MTBE(E4).

Proposed Remedial Action Plan−June 2003−Tyree−Depth to perched groundwater is ten to twelve feet. Groundwater flows to the east. During installation of wells W5 and W6 two ghost tanks found and could not be removed due to their location underlying operational pump island (both tanks were filled with water with no measurable product). Review of historical maps by Tyree suggested that there are possibly eight additional tanks on−site. Free product found in wells W4 and W5. A radius of influence of 16 was estimated by pilot tests, therefore conventional SVE would not accomplish treatment goals. A following pilot test of DPE indicated groundwater pumping in the DPE created a zone of influence exceeding 25'. Soil heterogeneities cause vapor flow rates to be less than 40cfm. Tyree proposes installation of DPE system of five extraction wells with liquid ring vacuum pumps. Estimated fluid extraction rate is 10gpm. Extraction wells installed in Apr with radius of influence of 20'. Fluids will be processed through a oil/water separator, air stripper and liquid phase carbon unit. Treated groundwater will be discharged into storm sewer. Vapors will be scrubbed using activated carbon asdorbtion. Monthly air samples will be collected and analyzed for NIOSH 1501. Discharge of wastewater will be monitored weekly for 30 days then monthly thereafter. Tyree requests written approval of RAP.

6/27/2003−Vought−NYSDEC requires 1)off site delineation 2)surrounding area site plan, sensitive receptor monitoring schedule and data 3)Additional copies of Site status report and Remediation Report of Aug 2002 (Vought−never received these documents) 4)Investigation of eight additional tanks referred to in RAP. These requests must be satisfied before RAP approval. Vought sent email to Tyree (Hatcher) on 7/2/03 with above requirements.

Quarterly Monitoring Reports (Tyree) July 2003 thru Dec 2003. Five monitoring wells onsite, one monitoring well/dual phase extraction well and four DPE wells for future remediation system. DPE wells were installed 4/10/03−4/11/03. Groundwater flow to the northeast. .15' of LNAPL in MW15. Trenching to connect all DPE wells completed in 7/03. Awaiting purchase of DPE system and permits for system . Groundwater concentrations up to 1020ppb benzene(W1), 865ppb benzene(W2), 1420ppb benzene(W3), 1560ppb benzene(W4), free product(W5), and 14ppb MTBE(W6). Monthly monitoring and bailing to recover free product.

2/19/04−Vought−Sent letter as per CAP rejecting RAP until the following requirements are met: 1)delineation to the west of W3, east of W−1, northwest of W2, downgradient from W4 2)inclusion of W5 in DPE system due to free product 3)surrounding area site plan. Vought sent letter with above requirements on 2/19/04.

5/1305−Vought−New file review by Vought:

Quarterly Monitoring Reports (Tyree Org)−July 2004 thru Dec 2004. Wells onsite include: five monitoring wells, one monitoring well/dual phase extraction well, and four DPE wells for future remediation system. Groundwater flow to the east−northeast at depths of 10−12' below grade. Groundwater analyticals show: 2600ppb benzene(W1), 1370ppb toluene(W1), 1200ppb ethylbenzene(W1), 5640ppb xylene(W1), 3690ppb MTBE(W1), 1490ppb benzene(W3), 699ppb toluene(W3), 242ppb ethylbenzene(W3), 652ppb xylene(W3), 3750ppb MTBE(W3), no sample(W4), no sample(W5), 11ppb MTBE(W6).

5/13/05−Vought−DEC no longer requires delineation upgradient of source but however still requires: 1)addition of MW5 to DPE or affirmation of inclusion in ROI of DPHVE system. Vought sent email with requirements. Vought received email from J Rennie that MW 5 was tied into DPHVE.

08/31/2005 − Feng − Project transferred from Vought to Feng.

11/15/2005 − Feng − Dual Phase Extraction System is installed and ready to run. However, it is still awaiting electric approval from NYC Electrical Control Board/Cod Edison.

12/19/2005 − Feng − Quarterly Monitoring Report, 7/2005 − 9/2005. The site is currently an active gasoline station & convienience store with car wash. Groundwater flows to east at the depth of 10.81' to 11.99' bg. There are 5 monitoring well, 1 monitoring/extraction well and 5 extraction wells. W−1, rapid increased and 49,390 ppb BTEX, rapid decreased and 804 ppb MTBE. W−2, rapid increased and 12,163 ppb BTEX, decreased and 8,500 ppb MTBE. W−3, decreased and 7,187 ppb BTEX, decreased and 3,540 ppb MTBE. W−4, increased and 3,638 ppb BTEX, decreased and 2,180 ppb MTBE. W−5, increased and 6,135 ppb BTEX, increased and 120 ppb MTBE. W−6, increased and 32 ppb MTBE, 10 ppb MTBE. Absorbent sock in W−5. Still waiting for electrical approval. (RJF)

1/17/2006 − Feng − Quarterly Monitoring Report, 10/2006 − 12/2005. The site is an acitve gasoline station & convienience store with car wash. Groundwater flows to east at the depth of 10.14' to 11.43' bg. 5 monitoring wells, 1 monitoring/extraction well and 5 extraction wells onsite. W−1, 48,920 ppb BTEX, 1,470 ppb MTBE. W−3, decreased and 4,467 ppb BTEX, 3,150 ppb MTBE. W−4, increased and 6,912 ppb BTEX, 2,410 ppb MTBE. W−6, low and 1 ppb BTEX, 13 ppb MTBE. Absorbent socks in W−5. Still waiting for

electrical approval for the system installed onsite. (RJF)

1/17/2006 − Feng − Emailed to Joe Rennie asked about the status of the site, and the reason why couldn't get the electrical approval. (RJF)

2/13/2006 − Feng − Emailed to Joe Rennie requested the status of the pending electrical approval from ConEd. (RJF)

2/13/2006 − Feng − Reply from Joe Rennie Please be advised that Tyree has tried making contact numerous times via phone and faxes with the electrical sub−contractor requesting the status in this matter. When Tyree was able to make contact with the sub−contractor, it was told to us that they did not hear back from the ECB and that they will make a follow−up phone call to check on the status.

At this point, the only thing that Tyree can do is to keep contacting the sub−contractor. If NYSDEC has any suggestions, we are surely open to them. (RJF)

2/14/2006 − Feng − Emailed to ConEd requesting status of the project and reason why electric service hasn't granted yet. and asked for the contact information of the project manager. (RJF)

2/14/2006 − Feng − Joe Rennie emailed the contact information of ConEdison. (RJF)

2/15/2006 − Feng − Letter requesting assistance in gaining electrical approval from ConEdison to Kevin Gallagher via fax: 212−673−1729 and certified mail. (RJF)

2/15/2006 − Feng − Called from Antonio Alaimo (ConEdison) and follow up by email. He called Mr. Godsil (Tyree's sub−contractor) on 1/26/2006 and Godsil is still waiting for the certificate from the city before ConEd could install a new meter. He said once the certificate is on hand, ConEdison will take care of this case right away. (RJF)

2/15/2006 − Feng − Called Harry Godsil (516−827−5324). He said that they re−filed for certificate and done the re−wiring. He willl follow up with the Electric Board and ConEdison. It will be all set in a couples weeks. (RJF)

3/8/2006 − Feng − Called Harry Godsil and left message if he got the certificate from the city yet. (RJF)

3/17/2006 − Feng − Faxed Harry Godsil a message and inquired the status of the power supply for the remediation system for this site. Requested the contact information if he haven't received the certificate from the city yet, such as contact name, address, phone# and fax#. (RJF)

3/29/2006 − Feng − 3/28/2006 Letter faxed to NYC Department of Buildings − Electrical Division and requested assistance in obtaining the electrical certificate. Called from Inspector Diamond (212)566−3812 saying that they never received any application for that. Emailed Joe Rennie and asked him to look into this problem. (RJF)

4/4/2006 − Feng − Email from DOB Bonnie Gerard. She stated that their inspector visited the site and found some violation. And DOB will be expedite Getty's sub−contractor's application. Feng Forward the violations list to Joe Rennie and strong recommend him to hire another electrican to remove the violation and then to run the system. (RJF)

4/6/2006 − Feng − Email Joe Rennie requested about the status of electrical work for the site.

4/7/2006 − Feng − Email from Joe Rennie I have another electrical contractor working on it. The contractor was in our office on Wednesday and Paul Hatcher and myself spoke to him. He assured us that he will follow up with the NYC DOB. As far as Con Ed goes the paperwork was filed and a case number has been assigned, it's the NYC DOB that doesn't have the necessary paperwork to proceed. (RJF)

5/4/2006 − Feng − Quarterly Monitoring Report, 1/2006 − 3/2006. Active gasoline station and convenience store with car wash. Groundwater at 10.59' to 11.56' bg and flows to east. Sampling and gauging as of 3/21/2006. There are 5 monitoring, 1 monitoring/extraction, 5 extraction wells. W−1, 0.04' FP. W−3, increased and 13,227 ppb BTEX (1,870 ppb B, 6,010 ppb T, 647 ppb E, 4,700 ppb X), 3,180 ppb MTBE. W−4, decreased and 4,651 ppb BTEX (1,750 ppb B, 31 ppb T, 1,050 ppb E, 1,820 ppb X), 1,230 ppb MTBE. W−6, 5 ppb BTEX, 16 ppb MTBE. Noted that absorbent sock in monitoring well (W−1). Electrical contractor waiting on Co Edison and NYC Electrical Control Board for installation approval and final inspection. (RJF)

6/27/2006 − Feng − Dual Phase Extraction System startup. DEC staff Sun, Feng, Andersen, and Krasweski were onsite to witness this event. (RJF)

11/9/2006 − Feng − Quarterly Monitoring Report, 7/2006 − 9/2006, 10/9/2006, by Tyree. Active gasoline station and convienience store with car wash. Sampled and gauged on 9/28/2006. 5 monitoring wells, 1 monitoring/extraction well, and 5 extraction wells. DTW 10.35' to 11.29' bg. Flows to easterly. LNAPL in MW−1, 0.30 feet. BTEX range ND to 17,637 ppb. MTBE range 1 ppb to 2,740 ppb. (RJF)

2/7/2007 − Feng − Quarterly Monitoring Report, 10/2006 − 12/2006, 1/2/2007, by Tyree. Groundwater sampled and gauged 12/27/2006. 5 monitoring, 1 monitoring/extraction and 5 extraction wells. DTW 9.92' to 11.98' bg. Flows east. LNAPL in W−1 (0.12'). W−3, 4,249 ppb BTEX, 700 ppb MTBE. W−4, Not accessible. W−6, BTEX ND, 4 ppb MTBE. (RJF)

5/17/2007 − Feng − New Spill 07−01951 called in. The caller stated that there is product in the monitoring well. Contacted Tyree to see what happened. (RJF)

5/17/2007 − Feng − Rob. S (Tyree) called back and he will send a field technician to the site and gauge those monitoring well. Product will be sampled if any were found in the wells. Will call back tomorrow with the gauging results. (RJF)

5/18/2007 − Feng − Email from Joe Gavin (C2G Environmental Consultants) to DEC Jacob Krimgold. During the Third Party Audit Inspection conducted 5/17/2007, some PBS violation were found and the station has been closed. (RJF)

5/23/2007 − Feng − Email updates from Rob. S (Tyree). A field tech was there yesterday and this morning. One monitoring well with 0.01' of product, the others including the dual phase ones has no product. (RJF)

6/26/2007 − Feng − Quarterly Monitoring Report, 1/2007 − 3/2007, 4/2007. Groundwater sampled 4/2/2007. 5 monitoring wells, 1 monitoring/extraction well, 5 extraction wells. DTW 10.40' to 11.69' bg. Flows to east. LNAPL in MW−1 (0.05'). W−3, 1,618 ppb BTEX, 949 ppb MTBE. W−4, not accessible. W−6, ND. Dual Phase Extraction system running. As of 4/18/2007, Influent 11.6 ppb BTEX and 13.90 ppb MTBE, effluent MDL. (RJF)

9/28/2007 − Feng − Quarterly Monitoring Report, 5/2007 − 7/2007, 8/2007. Groundwater sampled 7/9/2007. 5 monitoring wells, 1

monitoring/extraction well, 5 extraction wells. DTW 10.32' to 11.25' bg. Flows to east. No LNAPL. W−1, 40,412 ppb BTEX, 161 ppb MTBE. W−3, 6,555 ppb BTEX, 2,010 ppb MTBE. W−4, NA. W−6, BTEX ND, 4 ppb MTBE. (RJF)

3/21/2008 − Feng − Quarterly Monitoring Report, 8/2007 − 11/2007, 12/2007. Active gasoline station and convinience store iwth car wash. Groundwater was gauged and sampled 11/8/2007. 5 monitoring wells, 1 monitoring/extraction well and 5 extraction wells. DTW 10.78' to 11.97' bg. Flows to east. LNAPL in MW−1 (0.33'). BTEX range ND to 14,373 ppb (MW−3). MTBE range 3.3 ppb to 1,910 ppb (MW−3). Dual Phase Extraction system has been off line since November due to a pump failure and will be restarted in 12/2007. (RJF)

3/24/2008 − Feng − Email from R. Szcespanski (Tyree). The system is back to service in mid February 2008. (RJF)

7/11/2008 − 1Q2008, 12/2007 − 4/2008, 5/2008. Active gasoline station and convenience store with car wash. Groundwater was gauged and sampled 4/22/2008. 4 monitoring wells, 1 monitoring/extraction, 5 extraction wells. DTW 10.51' to 11.60' bg. Flows to east. LNAPL in W−1 (0.04'). BTEX range ND to 13,950 ppb (W−3). MTBE range ND to 1,760 ppb (W−3). The dual phase extraction system is on. Total BTEX influent ND to 0.93 ppb, MTBE ND to 7.8 ppb. Effluent ND.

Email to Tyree for check/evaluate the remedial system and to optimize the recovery. (RJF)

9/4/2008 − Getty Properties portfolio meeting with Delta and Tyree. Some vapor points might be installed in the area where the extraction wels located. Historical data for W−5. Correct the W−2 which is connected to the system. Need well within the property line near the extraction well which is downgradient of W−1. Check why extraction wells were put this way. work plan by 12/2008. (RJF)

1/6/2009 − Getty Properties portfolio meeting with Delta and Tyree. In 2005, there were 5 vapor points along the apartment building and came out clean. DEC received the delineation work plan, and under review. (RJF)

1/23/2009 − Reviewed Investigation Work Plan, dated 12/29/2008, by Tyree. One well is proposed near the vacuum area. DEC provided comments and requires a well to be installed at the extraction wells area as we agreed upon the meeting of 9/2008. (RJF)

1/28/2009 − Received and reviewed the Investigation Work Plan, dated January 27, 2009, by Tyree, pdf copy, sent via email. Tyree proposed to have 2 wells installed. email from Tyree on 1/27/2008, they will measure the water depth and will have proper amount of screen installed, at least 5 feet above water table. Work plan is approved. Field work to be scheduled for 1Q2009. Investigation report due 3/2009. (RJF)

3/17/2009 − Quarterly Monitoring Report, 5/2008 − 7/2008, 8/2008, by Tyree. Active gasoline station and convenience store with car wash. Groundwater was gauged and sampled 7/17/2008. 4 monitoring wells. NO LNAPL. DTW 10.42' to 11.90' bg. Flows to east. BTEX range 1.7 ppb to 41,264 ppb (W−1). MTBE range ND to 1,890 ppb (W−3). Dual phase extraction system is on line. BTEX influent ND. MTBE influent range 1.1 to 3.2 ppb. BTEX and MTBE effleuent ND.

Quarterly Monitoring Report, 8/2008 − 10/2008, 11/2008, by Tyree. Active gasoline station. Groundwater was gauged and sampled 10/29/2008. 4 monitoring wells. NO LNAPL. DTW 9.98' to 11.89' bg. Flows to east. BTEX range ND ppb to 24,172 ppb (W−1). MTBE range ND to 1,220 ppb (W−3). Dual phase extraction system on line. No BTEX influent or effluent. MTBE influent 2 to 3 ppm, effleuent ND. ((RJF)

6/9/2009 − Reviewed Subsurface Investigation Report, dated 5/13/2009, pdf via email on 5/13/2009, by Tyree. On March 31, 2009, Tyree oversaw Associated Environmenal Services during the installation of 2 monitoring wells. MW−7 and MW−8 were installed to depth of 25 feet bg. PID reading, MW−7 at 10−15 feet, 35 ppm; MW−8 at 10−15 feet 105 ppm. 4 soil samples were collected, MW−7 at 5−10 feet, MW−7 at 10−15 feet, MW−8 at 5−10 feet, MW−8 at 10−15 feet, no exceedances. 2 groundwater samples were collected. MW−7, 36 ug/L benzene, 47 ug/L MTBE. MW−8, 46 ug/L benzene, 340 ug/L MTBE. (RJF)

1/11/2012 − 4Q2011, 1/11/2012, by Tyree. LNAPL in MW−1, 0.01'. High BTEX in one well. MW−3, 9,459 ug/L BTEX, 197 ug/L MTBE. STARS list sampling for E−1, MW−2, E−2, MW−5/E−5. E−1, 58.3 ug/L benzene, 34.7 ug/L MTBE. MW−2, 27.4 ug/L MTBE. E−2, 18.1 ug/L MTBE. 12/13/2011, Dual phase extraction system was on. Liquid phase Influent/effluent are MDL. No vapor phase samples were collected.

07/28/2017 − In January 2017 during the removal of an underground storage tank (UST) system, MES Getty's contractor, excavated soil from the former tank field, former product piping runs and dispensers to remove petroleum impacted soil. During removal activities thirteen previously unknown ghost tanks in the southern area of the site were identified, and subsequently removed in May 2017. From January 9 to July 5, 2017, 43 excavation endpoint soil samples were collected from the sidewalls and bottom of the excavation extents.

A review of the laboratory analytical data shows seven excavation soil sample locations at depth exhibiting VOC concentrations in excess of NYSDEC CP−51 soil cleanup guidance, and eight excavation soil sample locations exhibiting SVOC concentrations in excess of applicable NYSDEC CP−51 Soil Cleanup Guidance. All of the excavation soil samples were reported below NYSDEC Brownfield Cleanup Program Commercial Soil Cleanup Objectives, with the exception of SW−8A (7´−7.5´), SW−8B (7´−7.5´) and SW−8B (14´).

Approximately 2,268.84 tons of excavated soil was transported off−site for disposal at Soil Safe´s facility located in Logan, New Jersey.

Based on the above presented information in the July 26th UST Closure and Remedial Excavation Summary Report the spill has been closed.

Map Identification Number 207 **CLARE HALE DEPOT** **Spill Number: 9610294** **Close Date: 11/22/1996**
721 LENOX AVE MANHATTAN, NY TT−Id: 520A−0100−742

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2402 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10037

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Notifier Type: Responsible Party
Caller Name: RAMONE PAEZ
DEC Investigator: ADZHITOM

Spiller: RAMONE PAEZ − CLARE HALE DEPOT
Notifier Name: MR DON BORNKMP
Caller Agency: NYC TRANSIT AUTHORITY
Contact for more spill info: RAMONE PAEZ

Spiller Phone: (718) 243−4581
Notifier Phone:
Caller Phone: (718) 243−4581
Contact Person Phone: (718) 243−4581

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/18/1996		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	100.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

GAUGE TO BOILER 1 BROKE, SPILL IS CONTAINED IN BOILER ROOM. CLEAN UP CREW IS ENROUTE.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was ZHITOMIRSKY

Map Identification Number 208 **−NYCT / 146 ST** **Spill Number: 9213322** **Close Date: 02/10/2003**
721 LENOX AVE MANHATTAN, NY TT−Id: 520A−0100−732

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2402 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10039

Source of Spill: COMMERCIAL/INDUSTRIAL Spiller: UNK FUEL VENDOR Spiller Phone:
Notifier Type: Affected Persons Notifier Name: Notifier Phone:
Caller Name: HOWIE MATZA Caller Agency: NYC TRANSIT AUTHORITY Caller Phone: (718) 330−4581
DEC Investigator: TOMASELLO Contact for more spill info: Contact Person Phone:

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/02/1993		TANK OVERFILL	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	200.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

SPILL INTO STREET AND LAND AROUND DEPOT UNK WHY SPILL OCCURED,CLEANUP ONGOING−MAT'L WILL BE DRUMMED AS HAZ−WASTE

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 209 **146TH ST DEPOT** **Spill Number: 9110782** **Close Date: 02/12/2003**
721 LENOX AVE MANHATTAN, NY TT−Id: 520A−0100−729

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2402 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10039

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: NYCTA
Spiller Phone:
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name: C BURRAS
Caller Agency: NYCTA
Caller Phone: (718) 330−4891
DEC Investigator: SULLIVAN
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/16/1992		TANK OVERFILL	NO	NO

The following material(s) was dropped or revised by the NYS DEC. Call Toxics Targeting for more information

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	UNKNOWN	150.00	GALLONS	0.00	GALLONS	

Caller Remarks:

SORBENT APPLIED. WILL PICK UP & DISPOSE.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 210 **MOTHER CLARA HALE DEPOT** **Spill Number: 0703983** **Close Date: 06/17/2008**
721 LENOX AVE NEW YORK CITY, NY TT−Id: 520A−0100−753

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2402 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: GEORGE CUNNINGHAM − MOTHER CLARA HALE DEPOT
Spiller Phone: (
Notifier Type: Responsible Party
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: mctibbe
Contact for more spill info: GEORGE CUNNINGHAM
Contact Person Phone: (

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
07/09/2007		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
HYDRAULIC OIL	PETROLEUM	150.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

BROKEN HYDRALIC COUPLING− LIFT #9; HAS BEEN CLEANED;

DEC Investigator Remarks:

They say the spill was cleaned, but this must be confirmed. Need to get contact phone number from Mark Tibbe

7/18/07 − Raphael Ketani. One hundred and fifty gallons of hydraulic oil spilled from a broken line at lift #9 at the bus depot.
I tried to call Sherry Bulkley at (646) 252−5774 to find out whether the oil had been cleaned up, but could only leave a message.

I talked to George Cunningham (646) 252−3607 at NYC Transit. He said that the oil was contained and the floor of the shaft is solid concrete. He said they will power wash the elevator shaft and collect the wash fluid. He will get back in touch with me.

7/19/07 − Raphael Ketani. Mr. Cunningham called me back. He said that 800 gals. of total liquids were removed from the shaft.
Groundwater had been seeping in. After they pumped out the shaft, more water entered. The lift is not going to be used ever again

and has been shut down for good. The walls of the lift will be powerwashed. The entire depot will be demolished in one year due to the other oil leaks/releases and tank problems at the site. It will be a giant cleanup of the grounds of the site. Mr. Cunningham added that he will send me a manifest for the removed liquids and a letter describing the events.

08−02−07: Reassigned to tibbe from Ketani. Spill is within the area of excavation of a larger remediation/construction project. Any residual contamination will be addressed at that time.

08/16/07: The investigation and remediation (if warranted) will be performed during a large remedial and construction project at this depot. The depot is slated to be demolished and rebuilt in 2008. An SSRP/RD is being prepared to address all of the known contamination and to investigate any areas where contamination is suspected, namely the lifts and associated pits. Refer to 98−13017.

06−17−08: Closed and consolidated under 8902374.

Map Identification Number 211 **MOTHER CLARA HILL BUS** **Spill Number: 0513028** **Close Date: 06/17/2008**
721 LENOX AVE NEW YORK, NY TT−Id: 520A−0100−749

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2402 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Notifier Type: Other
Caller Name: JAIKISAN ACHAIBAR
DEC Investigator: MCTIBBE

Spiller: JAIKISAN − MOTHER CLARA HILL BUS
Notifier Name: JAIKISAN ACHAIBAR
Caller Agency: NYC TRANSIT
Contact for more spill info: JAIKISAN

Spiller Phone: (646) 252−5777
Notifier Phone: (646) 252−5777
Caller Phone: (646) 252−5777
Contact Person Phone: (646) 252−5777

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/09/2006		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
HYDRAULIC OIL	PETROLEUM	582.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

ALL IN A CONTAINMENT AREA, AROUND THE HYDRALIC LIFTS

DEC Investigator Remarks:

02/10/06. Feroze. Talked with Mr. Jakisan Achaibar 646−252−5772. All fuel is in secondary cointainment. They will submit DEC all documents regarding cleaning the site.

02/10/06−Hiralkumar Patel. Left message for Jaikisan at 3:20 PM. Spoke with Jaikisan. as per him, whatever spill happened its contained in secondary container. both hydrolic lifts are lock out/tag out. on monday, private contractor will come and suck the mixture of water and oil. Jaikisan will call me once they clean site on monday 13th Feb.

02/14/06−Hiralkumar Patel. Left message for Jaikisan. 02/16/06−Hiralkumar Patel. Left message for Jaikisan.

Spoke with Jay at System Safety. as they suck out oil and water mixture from pits, they did water level test. among the four pits (pit# 4, 5, 8 & 9) they found three pits (pit# 5, 8 & 9) were leaking. and pit # 8 & 9 had accumulated oil (inch or so). Jay told me that they had spill previously and had plume underground and the site is under remediation. now because two pits accumulate some oil, CPM Remediation group is handling site and investigating. URS consultants is the company who is doing remediation work on site. Jay call back with more information and results of remediation group's investigation. as per him, DEC Mark Tibbe is handling all the site under remediation for NYC transit.

Discussed with Mark and Koon in remediation. Mark is working with two different plumes on the same site. as Mark talked with guy at site, the lifts are away from the site where the plume was previously. so it is probably not related to previous plumes.(Refer Spill# 8902374)

Spoke with Jay. they have taken some samples for fingerprint and as they get results, Jay will call back.

02/23/06−Hiralkumar Patel. Left message for Jaikisan. 02/24/06−Hiralkumar Patel. Left message for Jaikisan. Spoke with Jay. they haven't got results yet. once he will get result, he will call back. and depends on results this project will go to remediation department in transit.

03/03/06−Hiralkumar Patel. Received call from Jay from Transit. he got sample results and all three samples came back with confirmation that it is lubricating oil. now remediation department at Transit is handling this case. he will update me on this case as he gets information. Received copy of lab results.

if we need any information, call Jay at system Safety.

04/04/06−Hiralkumar Patel. Spoke with Jay and he still don't know whether this site will be remediated under remediation section or not. he will call back. Received fax from Jay. abstract of letter: − Source of spill/leak identified: over a period of time, product (hydraulic fluid) and sludge accumulated in all four pits (# 4, 5, 8, 9) due to broken line, and poor seal in piston − Source of Spill/leak was stopped: brokken hydraulic fluid line, poor seal were replaced and lift load test was performed as part of MP2 preventive maintenance. − Spill cleaned: AB Oil removed 1029 gals of oily water and 1 cy of sludge and pressure washed all 4 pits. refer to AB Oil Work orders (3 18739, 18738) and manifests (# 18738, 18739) − Samples taken: samples were collected from two of the lift pits and hydraulic fluid reservoir, and analyzed by URS subcontractor laboratory. the finger print analysis identified the product as hydraulic fluid − Disposal of contaminated waste: AB Oil transported and disposed the oily water, and the sludge as non−hazardous industrial waste. − Investigation required/Refer to CPM: lost water in pit # 5 and gained water in pits # 8 & 9 during standing water test. CPM needs to investigate for any potential product plume in the bus lift area.

06/06/06−Hiralkumar Patel. Left message for Jay. Received call from Jay. he hasn't heard from CPM section and doesn't know

whether this will be investigated under existing remediation or will be addressed separately.

07/10/06−Hiralkumar Patel. spoke with Jay. they are still working to determine who will handle this case. 08/31/06−Hiralkumar Patel. left message for Jay.

12/01/06−Hiralkumar Patel. left message for Jay. 12/11/06−Hiralkumar Patel. received message from Racheal from NYC transit. Jay is no longer handling spills. as per Racheal this spill has been transferred to their remedial investigation unit in NYC Transit. Racheal will be call back with more information.

Once MTA Remediation department takes over this case, ask Randy who will handle this case: me or Remediation section of DEC.

08/16/07: The investigation and remediation (if warranted) will be performed during a large remedial and construction project at this depot. The depot is slated to be demolished and rebuilt in 2008. An SSRP/RD is being prepared to address all of the known contamination and to investigate any areas where contamination is suspected, namely the lifts and associated pits. Refer to 98−13017.

06−17−08: Closed and consolidated under 8902374.

Map Identification Number 212 **MOTHER CLARA HALE BUS DEP** **Spill Number: 0008714** **Close Date: 08/28/2001**
721 LENOX AVE MANHATTAN, NY TT−Id: 520A−0100−734

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2402 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: 721 LENNOX AVE
Revised zip code: NO CHANGE

Source of Spill:	COMMERCIAL/INDUSTRIAL	Spiller:	NYC TRANSIT	Spiller Phone:	
Notifier Type:	Responsible Party	Notifier Name:	MIKE FERARRA	Notifier Phone:	
Caller Name:	TIM SLAUSON	Caller Agency:	NYC TRANSIT	Caller Phone:	(718) 851−3804
DEC Investigator:	MCTIBBE	Contact for more spill info:	CALLER	Contact Person Phone:	

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/26/2000		EQUIPMENT FAILURE	NO	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

Caller Remarks:

OIL/WATER SEPARATOR MALFUNCTIONED − CONTAINED IN VAULT − DID NOT GO ANYWHERE − REPAIR TO BEGIN − REQ'D BY DEC ON SITE

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE no product lose. minor sheen in separator contained in vault. cleaned by nyct.

Map Identification Number 213 **YANKEE STADIUM** **Spill Number: 0313357** **Close Date: 04/15/2004**
153/157 STREET BRONX, NY TT−Id: 520A−0013−562

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (2)
Approximate distance from property: 2414 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: E 153RD ST / E 157TH ST
Revised zip code: 10451

Source of Spill:	INSTITUTIONAL, EDUC, GOV, OTHER	Spiller:	MIKE BULLOCK − YANKEE STADIUM		Spiller Phone: (718) 391−1218
Notifier Type:	Other	Notifier Name:	GREG CELLAMARE		Notifier Phone: (203) 470−9135
Caller Name:	GREG CELLAMARE	Caller Agency:	CONSULTANT		Caller Phone: (203) 470−9135
DEC Investigator:	TJDEMEO	Contact for more spill info:	MIKE BULLOCK		Contact Person Phone: (718) 391−1218

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − No DEC Field Response − Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
03/05/2004		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	300.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

ACCIDENTAL TRANFER PUMP WAS TURNED ON AND CAUSED SPILL, WILL BE CLEANED UP: HAS SOME SPEED DRI DOWN ****** ASK THAT YOU CALL gREGG

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was DEMEO 3/11/2004 DeMeo says cleanup is done. Waiting for

manifests

RND Services did the cleanup and will submit documentation to DEC

4/15/04 TJD Spill summary and disposal manifests submitted. No further action required. Spill closed.

Map Identification Number 214 **775 CONCOURSE VILLAGE E** **Spill Number: 9011440** **Close Date: 01/31/1991**

775 CONCOURSE VILLAGE E NEW YORK CITY, NY TT−Id: 520A−0013−549

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2509 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: 775 E CONCOURSE VILLAGE
Revised zip code: 10451

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: 775 CONCOURSE VILLAGE E
Spiller Phone: (212) 992−1010
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: JULIE
Caller Agency: MILRO SERVICE
Caller Phone: (516) 486−5050
DEC Investigator: KSTANG
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/30/1991	01/31/1991	TANK OVERFILL	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	800.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

SPILL CONTAINED IN BURNER ROOM,MILRO ON SCENE,CLEANING SPILL WITH

SAND,(4) TANKS 35K EACH,DEC RECOMMENDED INSTALLATION OF OVERFILL

ALARM,SECONDARY CONTAINMENT & TO STOP TRANSFER OF PRODUCT.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was TANG

Map Identification Number 215 **775 CONCOURSE VILLAGE E** **Spill Number: 9011294** **Close Date: 01/25/1991**
775 CONCOURSE VILLAGE E NEW YORK CITY, NY TT−Id: 520A−0013−548

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2509 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: 775 E CONCOURSE VILLAGE
Revised zip code: 10451

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: CONCOUSRE VILLAGE
Spiller Phone: (212) 992−1010
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: MATT MILNE
Caller Agency: MILRO SERVICE
Caller Phone: (516) 486−5155
DEC Investigator: FINGER
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/25/1991	01/25/1991	EQUIPMENT FAILURE	UNKNOWN	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	200.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

SPILL CONTAINED IN BOILER ROOM,NO DRAINS,MILRO DOING CLEAN UP.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 216 **775 CONCORD VILLAGE E/BX** **Spill Number: 9011012** **Close Date: 02/10/2003**
775 CONCORD VILLAGE EAST NEW YORK CITY, NY TT−Id: 520A−0013−550

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2509 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: 775 E CONCOURSE VILLAGE
Revised zip code: 10451

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: UNKNOWN
Spiller Phone: (212) 293−0239
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name: GARLON MCCARGO
Caller Agency: COASTAL OIL
Caller Phone: (718) 746−2412
DEC Investigator: TOMASELLO
Contact for more spill info:
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/16/1991		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	200.00	GALLONS	0.00	GALLONS	SEWER

Caller Remarks:

FAULTY GAUGE,CRACKED VENT LINE,SPILLAGE INTO STREET & STORM DRAIN,

COASTAL OIL USED 30 BAGS OF SPEEDY DRY & HAS CALLED MILRO SERVICE FOR VAC TRUCK.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 217 **MULTI FAM DWG/COMM** **Spill Number: 0612134** **Close Date: 09/23/2008**
775 CONCOURSE VILLAGE BRONX, NY TT−Id: 520A−0013−556

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2509 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: 775 E CONCOURSE VILLAGE
Revised zip code: 10451

Source of Spill: COMMERCIAL/INDUSTRIAL
Spiller: ANTHONY LARA − MULTI FAM DWG/COMM
Spiller Phone: (718) 624−4842 ext. C ext: OFFICE
Notifier Type: Other
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: SFRAHMAN
Contact for more spill info: ANTHONY LARA
Contact Person Phone: (718) 624−4842 ext. C ext: OFFICE

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
02/03/2007		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	1000	GALLONS	0	GALLONS	SOIL

Caller Remarks:

tank cleaner reports approx 1000 gals spilled and contained with the cellar at above address−tank is 20,000 gals−cleanup is pending till arrival of callet−Anthony is enroute now−Control Combustion is the burner service−owner to be determined

DEC Investigator Remarks:

30,000 gallon tank reptured at the bottom.PTC pumped out the tank.As per PTC(Anthony,6467727180),no drain/sewer was impacted.Spill was contained mostly in the tank room, a portion travelled down to adjacent room which is occupied by numerous types of stuff.PTC will resume cleaning the tank room monday, 02/05/07.

02/09/06 Rahman− Letter was sent to Concourse Village Inc. 775 Concourse Village East Bronx, NY 10451

*******PBS: 2−342599********** Attn: Jennifer Jones

02/21/07 Control Combustion working to remove the remaining contamination out of the vault.

09/13/07 I had a site meeting this morning at the site with Miller Env.,Pat from Control Combustion and Management rep Mr. Jones.The old tank was taken out of the vault.Following things are decided to complete in next few days: 1− Eight borings will be installed in the tank vault along the wall to determine the

subsurface contamination. 2− Floor and wall will be power washed before the new tank installation. 3− Investigation will be made to identify the other end of the pipes those are connected to the vault at bottom level and find out if oil has migrated through that pipes.(SR).

04/24/08 Site meeting with Miller Environmental(Adam & Nick) and Controlled Combustion held on 04/23/08 with presence of DEC. Contamination below concrete slab is being removed as segments of concrete slab removed at a time and restored. A 6 dia slotted PVC pipe will be installed to collect any seepage of thick oil, if accumulates any.(sr)

09/19/08 Report from MEG dated May 22, 2008 in file.On may 7,2008 6 diameter monitoring well was installed in the excavation.The excavation was backfilled with gravel sand around the well.MEG indicated to observe the well twice per month for a minimum of 3 months.(sr)

09/23/08 Rec’d status report from MEG dated September 22,2008.As per MEG, no product has seeped into the monitoring well location

during the last 4 months.Pictures in edocs.NFA required.Spill can be closed.(sr)

Map Identification Number 218 **SCHOOL #X183** **Spill Number: 0411448** **Close Date: 09/27/2006**
339 MORRIS AV BRONX, NY TT−Id: 520A−0012−086

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2534 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: COMMERCIAL/INDUSTRIAL
Notifier Type: Fire Department
Caller Name: CARBONE, ANTHONY
DEC Investigator: qxabidi

Spiller: JUAN ACOSTA − SCHOOL #X183
Notifier Name: CARBONE, ANTHONY
Caller Agency: FDNY
Contact for more spill info: JUAN ACOSTA

Spiller Phone: (718) 402−6156
Notifier Phone: (718) 476−6288
Caller Phone: (718) 476−6288
Contact Person Phone: (718) 402−6156

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/24/2005		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#6 FUEL OIL	PETROLEUM	100.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

heating unit had a leak resulting in a fuel oil spill of 100 gallons of fuel oil in the basement. Board of Education will contact a cleanup company for clean up.

DEC Investigator Remarks:

1/24/05 Tipple responded to site, The students in grades k−8 were relocated to neighboring schools, while the high school students were sent home. Petroleum tank cleaners were retained by the school to conduct the cleanup. The spill was caused by a faulty #6 fuel line that ran from one of the pre−heaters. The maintenance staff acted quickly in stopping the flow from the leaking line, and limiting the quantity of petroleum released into the boiler room. The boiler room floor was painted making the cleanup less labor intensive than it would have been if it weren't painted.

1/25/05 Tipple conducted a followup site inspection before the children arrived at the school. Tipple observed that the cleanup was nearly completed. The floor drains revealed a skim coat of #6 Fuel oil, presumably the oil was released from the pipe walls

once the boiler went back on line and the boiler room warmed. PTC returned to the site to finish the cleanup.

08/09/06: This spill is transferred from Mr. Koon Tang to Q.Abidi. Contacted to Mr. Maurice Molloy (custodian) at (718)402−6156 about the infrmation of the spill. He said this spill is already cleaned up long time ago. He will fid out the supporting documents from his supervisor and he will fax it to me. −QA

08/10/06: Called at (718)402−6156 and left message to call me back. −QA

09/27/06: This spill of 100 Gallons of # 6 oil occurred in the basement of School due to leakage of heating unit in the boiler room on January 24, 2005. Department staff contacted the custodian Engineer of the School. The custodian officer provided a closing confirmation letter reporting that the Fuel Division responded and Petrol Tank Cleaners completed the clean up. DEC staff closed this spill. −QA

Map Identification Number 219 **PATTERSON HOUSES −NYCHA** **Spill Number: 9710056** **Close Date: 12/01/1997**
301 EAST 143RD STREET BRONX, NY TT−Id: 520A−0010−950

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 2594 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER
Spiller: BART PULLEY − NYC HOUSING AUTHORITY
Spiller Phone: (718) 585−2382
Notifier Type: Responsible Party
Notifier Name: FRANK OCELLO
Notifier Phone: (212) 306−3233
Caller Name: FRANK OCELLO
Caller Agency: NYC HOUSING
Caller Phone: (212) 306−3229
DEC Investigator: SACCACIO
Contact for more spill info: BART PULLEY
Contact Person Phone: (718) 585−2382

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.
Class: Willing RP − DEC Field Response − Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/01/1997		EQUIPMENT FAILURE	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	240.00	GALLONS	0.00	GALLONS	SEWER

Caller Remarks:

GAUGE BROKE CAUSING SPILL WITH APPROX 100 GALS GOING INTO SEWER. CLEAN UP CREW (WINSTON CONTRACTING) ON WAY TO CLEAN UP SPILL.

DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.

Map Identification Number 220 **MAJOR DEEGAN & 138TH ST/B** **Spill Number: 8706724** **Close Date: 11/07/1987**
MAJOR DEEGAN/138TH ST. BRONX, NY TT−Id: 520A−0014−244

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 2608 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: MAJOR DEEGAN EXWY/E 138TH ST
Revised zip code: 10451

Source of Spill: TANK TRUCK
Spiller: CHEMICAL LEAMON
Spiller Phone: (609) 845−1819
Notifier Type: Federal Government
Notifier Name:
Notifier Phone:
Caller Name:
Caller Agency:
Caller Phone:
DEC Investigator: UNASSIGNED
Contact for more spill info:
Contact Person Phone:

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/07/1987	11/07/1987	TRAFFIC ACCIDENT	UNKNOWN	NO

NO MATERIAL INFORMATION GIVEN FOR THIS SPILL

Caller Remarks:

NYC AND SPILLER ON SCENE, TANK TRUCK FLIPPED OVER.

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was

10/10/95: This is additional information about material spilled from the translation of the old spill file: LIQUID OXYGEN.

THE FOLLOWING CLOSED SPILLS FOR THIS CATEGORY WERE REPORTED BETWEEN 1/8 MILE AND 1/2 MILE FROM THE SUBJECT ADDRESS. THESE SPILLS WERE REPORTED TO BE LESS THAN 100 UNITS IN QUANTITY AND CAUSED BY: EQUIPMENT FAILURE, HUMAN ERROR, TANK OVERFILL, DELIBERATE SPILL, TRAFFIC ACCIDENT, HOUSEKEEPING, ABANDONED DRUM, VANDALISM OR STORMS. THESE SPILLS ARE NEITHER MAPPED NOR PROFILED IN THIS REPORT.

FACILITY ID	FACILITY NAME	STREET	CITY
1109594	COLLEGE PARKING LOT	550 GRAND COINCOURSE	BRONX
9612108	EAST 149TH ST/EXTERIOR ST	EAST 149TH ST/EXTERIOR ST	BRONX
1801898	DRUM RUN	E 150TH ST AND ANTHONY GRIFFIN PL	BRONX
0890255	208421; S/S E150 ST 32‘ WWC ANTHONY GRIFFIN PLACE	S/S E150 ST 32‘ WWC ANTHONY GRIFFIN PLACE	BRONX

8700839	475 GRAND CONCOURSE / BRO	475 GRAND CONCOURSE	NEW YORK
1204700	DRUM RUN	EAST 153 ST AND WALTON AVE	BRONX
9801301	CARMEL HAYS HIGH SCHOOL	650 GRAND CONCORSE	BRONX
9210903	670 GRAND CONCOURSE	670 GRAND CONCOURSE	BRONX
0413387	DRUM RUN PICKUP	676 GRAND CONCOURSE	BRONX
1011979	SOIL	450 GRAND CONCOURSE	BRONX
0607762	MANHOLE 4505	WEST GERARD AVE/146TH ST	BRONX
0607307	AUTO REPAIR SHOP	702 GRAND CONCOURSE	BRONX
0711025	RESIDENTIAL BLDG.	691 GERARD AVE.	BRONX
0210245	SPILL NUMBER 0210245	691 GERARD AVE	BRONX
0706095	FORMER SCHOOL PS31X	425 GRAND CONCOURSE	BRONX
9614169	730 GRAND CONCOURSE	730 GRAND CONCOURSE	BRONX
1506899	20735 MANHOLE CON ED	149 ST AND PARK AVE	BRONX
9412692	711 WALTON AVENUE	711 WALTON AVENUE	BRONX
0600572	CONSTRUCITON SITE	GRAND CONCOURSE/155TH STR	BRONX
9400122	SURREY RESIDENCE	740 GRAND CONCOURSE	BRONX
0604618	VS 2773	385 GERARD AVENUE	BRONX
0205576	MANHOLE 1676	385 GERARD AV	BRONX
0503991	AMBOY BUS	399 EXTERIOR ST	BRONX
9801948	SPILL NUMBER 9801948	721 WALTON AVENUE	BRONX
0701863	APART	721 WALTON AVE	BRONX
1108611	KIPPS SCHOOL	201 EAST 144TH ST	BRONX
1501082	HOME	655 MORRIS AVE	BRONX
0301218	EAST 153 STREET AT	COMWELL AVENUE	BRONX
0301215	EAST 153 ST	E. 153RD ST & CROMWELL AV	BRONX
9307897	368 WALTON AVENUE	368 WALTON AVENUE	BRONX
9803123	760 GRANDE CONCOURSE	EAST 156TH STREET	BRONX
0012313	SPILL NUMBER 0012313	760 GRAND CONCOARSE	BRONX
9515003	LINCOLN MEDICAL & HEALTH	234 E.149TH ST	BRONX
9310375	234 EAST 149TH STREET	234 EAST 149TH STREET	BRONX
9208811	234 EAST 149TH STREET	234 EAST 149TH STREET	BRONX
0912680	LINCOLN HOSPITAL EMERGENCY ENTRANCE	PARK AVE SIDE	BRONX
0300090	MAJOR DEEGAN EXPRESS SB	OFF 153RD ST EXIT	BRONX
1203371	RESIDENTIAL PROPERTY	720 LENOX AVE BETWEEN W147 AND W146	MANHATTAN
1011693	PVT DWELLING/APT BUILDING	780 GRAND CONCOURSE	BRONX
0311114	MANHOLE #4917	780 GRAND CONCOURSE ROAD	BRONX
1009079	221358; MORRIS AVENUE	MORRIS AVENUE	BRONX
0814326	212762; E 157 ST & WALTON AVE	E 157 ST & WALTON AVE	NEW YORK
0600774	MANHOLE 20390	153 STREET & MORRIS AVE	BRONX
9912851	MANHOLE 20362	140 9TH ST / MORRIS AVE	BRONX
1204021	ROADWAY	149TH ST & MORRIS AVE	BRONX
0405556	ON THE ROADWAY	149TH ST./MORRIS AVE.	BRONX
9513120	556 MORRIS AVE	556 MORRIS AVE	BRONX
0410680	MANHOLE #3861	EAST 140 ST AND EXTERIOR	BRONX

0311223	MANHOLE #4492	JERARD AVE/E 140TH ST	BRONX
1310090	DRUM RUN	EAST 150 ST ACROSS FROM 276 EAST 150	BRONX
0890118	206775; W/S MORRIS AVE, OPP SEC E154 ST	W/S MORRIS AVE, OPP SEC E154 ST	BRONX
0204050	SPILL NUMBER 0204050	PARK AVENUE / E 141TH ST	BRONX
0403713	MANHOLE #20358	MORRIS AVE & EAST 148TH S	BRONX
9612211	APARTMENT HOUSE	815 GERARD AV	BRONX
0500549	APARTMENT BUILDING	815 GERARD AVE	BRONX
9312938	310 WALTON AVENUE	310 WALTON AVENUE	BRONX
9612513	376 CANAL PL	376 CANAL PL	BRONX
1504031	CONSTRUCTION SITE	810 RIVER AVE	BRONX
1111396	ROADWAY	145 ST AND LENOX AVE	MANHATTAN
0212604	COLOR CARTION CORP	2650 PARK PL	BRONX
0890133	206946; W/S OF MORRIS AVENUE & EAST 144TH STREET	W/S OF MORRIS AVENUE & EAST 144TH STREET	
0601225	MANHOLE 9539	WALTON AVE & E. 158TH ST	BRONX
8801213	BUDGEWOOD LAUNDRY	BUDGEWOOD LAUNDRY	NYC
0814304	212615; GERARD AVE AND 158 ST	GERARD AVE AND 158 ST	NEW YORK
1112351	MANHOLE 4925	GRAND CONCOURSE / EAST 158 ST INTERSECTION	BRONX
9707080	METRO NORTH MOTT HAVEN	156TH ST & PARK AVE	BRONX
9703926	MTA METRO NORTH YARD	156 TH ST & PARK AVE	BRONX
1308294	MOTT HAVEN YARD	156TH ST AND CONCOURSE VILLAGE EAST	BRONX
0900403	CONCORSE VILLAGE EAST AND 156 STREET	MOTT HAVEN YARD	BRONX
0209040	METRO NORTH RR	MOTT HAVEN YARD 156TH ST	BRONX
9814638	RIDER AVE & EAST 141ST	RIDER AVE & EAST 141ST	BRONX
9405257	WALTON AVE−138 & 140TH ST	WALTON AVE−138 & 140TH ST	BRONX
0408367	VAULT #4472	WEST 142 /CHISM PLACE	MANHATTAN
1409664	ALLIANCE GLOBAL GAS STATION	119 WEST 145 ST	NEW YORK
1307182	GETTY STATION 5442	119 WEST 145TH	MANHATTAN
0705883	GETTY #58409	119 WEST 145TH ST	MANHATTAN
0701865	GETTY#58409	119 W. 145TH ST	MANHATTAN
9900021	SPILL NUMBER 9900021	2541 7TH AVE	NEW YORK
9411362	ESPLANADE GARDENS	101 W. 147TH ST	MANHATTAN
0401726	VS 6090	2569−2573 7TH AVE	MANHATTAN
0108125	ESPLANADE GARDENS	101 WEST 147TH ST	NEW YORK
9610399	NYC TRANSIT AUTHORITY	146TH ST & LENOX	MANHATTAN
9513237	CLARA HALE DEPOT	146TH ST & LENNOX AV	MANHATTAN
9503127	CLARA HALE DEPOT	721 LENOX AVE	MANHATTAN
9304003	721 LENOX AVE	721 LENOX AVE	MANHATTAN
1411846	MOTHER CLARA HALE TERMINAL	721 LENOX AVE	MANHATTAN
1410858	MOTHER CLARA HAIL DEPOT NYC TRANSIT	721 LENOX AVENUE	NEW YORK
1406736	MOTHER CLARA HALE DEPOT	721 LENOX AVE	NEW YORK
0703773	MOTHER CLARA HILL BUS	146TH AND 7TH	BRONX
0401607	MOTHER CLARA HILL DEPOT	721 LENOX AVE	NEW YORK
0311419	CLARA HALE DEPOT	721 LENOX AVE	MANHATTAN
0303989	MOTHER CLARA HALE DEPOT	721 LENOX AVE	NEW YORK

0300236	CLARA HALE BUS DEPOT	721 LENOX AVE	NEW YORK
0206465	MOTHER CLARA HALE DEPOT	146TH ST & LENNIX AVE	MANHATTAN
8905189	LENOX & 7TH AV/147TH ST	LENOX & 7TH AV/147TH ST	NEW YORK CITY
0802273	YANKEE STADIUM	OFF OF EXIT 6	BRONX
0707859	STREET	CHISUM PLACE	MANHATTEN
9800693	MELROSE HOUSES −NYCHA	304 E 156TH ST	BRONX
9210911	304 EAST 156TH STREET	304 EAST 156TH STREET	BRONX
9416737	335 EAST 152ND STREET	335 EAST 152ND STREET	BRONX
9501773	MORRIS AVE & 142ND ST	MORRIS AVE & 142ND ST	BRONX
0814416	213355; 845 WALTON AVE	845 WALTON AVE	NEW YORK
0001183	VAULT VS2109	I/FO 850 WALTON AVE	BRONX
1103895	146TH ST BETW LENNOX AVE & ADAM CLAYTON POWELL BLVD	146TH ST	MANHATTAN
9514138	775 CONCOURSE VILLAGE	775 CONCOURSE VILLAGE	BRONX
9314838	775 CONCOURSE VILLAGE	775 CONCOURSE VILLAGE	BRONX
0305420	CONCOURSE VILLAGE APTS	775 CONCOURSE VILLAGE EAS	BRONX
0513599	FREDRICK SAMUALS CHILD CN	669 LENOX AVE	MANHATTAN
0814486	213780; CANAL PLACE AND E 140 ST	CANAL PLACE AND E 140 ST	NEW YORK
0008579	SPILL NUMBER 0008579	60 WEST 142ND ST	MANHATTAN
9810118	PATTERSON HOUSES −NYCHA	301 EAST 143RD STREET	BRONX
9808893	PATTERSON HOUSES −NYCHA	301 EAST 143RD STREET	BRONX
9513726	PATTERSON HOUSES −NYCHA	301 EAST 143RD STREET	BRONX
8903460	MAJOR DEEGAN EXPWY/BX	MAJOR DEEGAN EXPWY/E 138	NEW YORK CITY
9800820	SPILL NUMBER 9800820	800−803 E CONCOURSE VILLA	BRONX
9416796	2300 5TH AVENUE	2300 5TH AVENUE	NEW YORK
9405041	30 WEST 141ST STREET	30 W. 141ST ST	MANHATTAN
9311787	APT. BLDG 15 W. 139TH ST	APT. BLDG 15 W. 139TH ST.	MANHATTAN

NO OIL STORAGE FACILITIES LARGER THAN 400,000 GALLONS IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS

PETROLEUM BULK STORAGE FACILITIES LESS THAN 400,000 GALLONS IDENTIFIED WITHIN THE 1/8 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 221 **VEHICLE MAINTENANCE FACILITY** **Facility Id: 2−333212** **Source: NYS DEC**
580 GERARD AVENUE BRONX, 10451 TT−Id: 640A−0005−799

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 0 feet

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Site Status: Unregulated/Closed
Expiration Date of the facility's registration certificate:

Facility Type: Unknown

Additional PBS information for this site has been publicly withheld by the NYSDEC. The following is historic data:

Operator Name: POSTMASTER
Owner Name: −
Owner Company: U.S.P.S.
Owner Address: 558 GRAND CONCOURSE, BRONX, NY 10451

Operator Phone #: (212) 960−5037
Owner Type: Federal Government

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	Closed − Removed	Gasoline	550	Underground	05/01/1950		03/01/1993
002	Closed − Removed	Gasoline	550	Underground	05/01/1950		03/01/1993
003	Closed − Removed	Gasoline	550	Underground	05/01/1950		03/01/1993
004	Closed − Removed	Gasoline	550	Underground	05/01/1950		03/01/1993
005	Closed − Removed	Gasoline	550	Underground	05/01/1950		03/01/1993
006	Closed − Removed	Gasoline	550	Underground	05/01/1950		03/01/1993
007	Closed − Removed	Gasoline	550	Underground	05/01/1950		03/01/1993
008	Closed − Removed	Gasoline	550	Underground	05/01/1950		03/01/1993
009	Closed − Removed	Gasoline	550	Underground	05/01/1950		03/01/1993

TANK NUMBER: 001
TANK EXT. PROTECTION: None
PIPING EXT. PROTECTN: None
PIPING TYPE: Galvanized Steel

TANK TYPE: Steel/Carbon Steel/Iron
TANK LEAK DETECTN: None
PIPING LEAK DETECTN:
PIPING LOCATION: No Piping

TK INT. PROTECTION: None
TK SEC. CONTAINMNT: None
PIPE SEC. CONTAINMNT:

**** TANK INFO FOR THIS SITE CONTINUES ON NEXT PAGE ****

OVERFILL PROTECTION: None
SPILL PREVENTION:
DISPENSER METHOD:

TANK NUMBER: 002
TANK TYPE: Steel/Carbon Steel/Iron
TK INT. PROTECTION: None
TANK EXT. PROTECTION: None
TANK LEAK DETECTN: None
TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None
PIPING LEAK DETECTN:
PIPE SEC. CONTAINMNT:
PIPING TYPE: Galvanized Steel
PIPING LOCATION: No Piping
OVERFILL PROTECTION: None
SPILL PREVENTION:
DISPENSER METHOD:

TANK NUMBER: 003
TANK TYPE: Steel/Carbon Steel/Iron
TK INT. PROTECTION: None
TANK EXT. PROTECTION: None
TANK LEAK DETECTN: None
TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None
PIPING LEAK DETECTN:
PIPE SEC. CONTAINMNT:
PIPING TYPE: Galvanized Steel
PIPING LOCATION: No Piping
OVERFILL PROTECTION: None
SPILL PREVENTION:
DISPENSER METHOD:

TANK NUMBER: 004
TANK TYPE: Steel/Carbon Steel/Iron
TK INT. PROTECTION: None
TANK EXT. PROTECTION: None
TANK LEAK DETECTN: None
TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None
PIPING LEAK DETECTN:
PIPE SEC. CONTAINMNT:
PIPING TYPE: Galvanized Steel
PIPING LOCATION: No Piping
OVERFILL PROTECTION: None
SPILL PREVENTION:
DISPENSER METHOD:

TANK NUMBER: 005
TANK TYPE: Steel/Carbon Steel/Iron
TK INT. PROTECTION: None
TANK EXT. PROTECTION: None
TANK LEAK DETECTN: None
TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None
PIPING LEAK DETECTN:
PIPE SEC. CONTAINMNT:
PIPING TYPE: Galvanized Steel
PIPING LOCATION: No Piping
OVERFILL PROTECTION: None
SPILL PREVENTION:
DISPENSER METHOD:

TANK NUMBER: 006
TANK TYPE: Steel/Carbon Steel/Iron
TK INT. PROTECTION: None
TANK EXT. PROTECTION: None
TANK LEAK DETECTN: None
TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None
PIPING LEAK DETECTN:
PIPE SEC. CONTAINMNT:
PIPING TYPE: Galvanized Steel
PIPING LOCATION: No Piping
OVERFILL PROTECTION: None
SPILL PREVENTION:
DISPENSER METHOD:

TANK NUMBER: 007
TANK TYPE: Steel/Carbon Steel/Iron
TK INT. PROTECTION: None
TANK EXT. PROTECTION: None
TANK LEAK DETECTN: None
TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None
PIPING LEAK DETECTN:
PIPE SEC. CONTAINMNT:
PIPING TYPE: Galvanized Steel
PIPING LOCATION: No Piping
OVERFILL PROTECTION: None
SPILL PREVENTION:
DISPENSER METHOD:

TANK NUMBER: 008
TANK TYPE: Steel/Carbon Steel/Iron
TK INT. PROTECTION: None
TANK EXT. PROTECTION: None
TANK LEAK DETECTN: None
TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None
PIPING LEAK DETECTN:
PIPE SEC. CONTAINMNT:
PIPING TYPE: Galvanized Steel
PIPING LOCATION: No Piping
OVERFILL PROTECTION: None
SPILL PREVENTION:
DISPENSER METHOD:

TANK NUMBER: 009
TANK TYPE: Steel/Carbon Steel/Iron
TK INT. PROTECTION: None

**** TANK INFO FOR THIS SITE CONTINUES ON NEXT PAGE ****

TANK EXT. PROTECTION: None
PIPING EXT. PROTECTN: None
PIPING TYPE: Galvanized Steel
OVERFILL PROTECTION: None

TANK LEAK DETECTN: None
PIPING LEAK DETECTN:
PIPING LOCATION: No Piping
SPILL PREVENTION:

TK SEC. CONTAINMNT: None
PIPE SEC. CONTAINMNT:
DISPENSER METHOD:

Map Identification Number 222 **580 GERARD AVENUE** **Facility Id: 2−476021** **Source: NYS DEC**
580 GERARD AVENUE BRONX, 10451 TT−Id: 640A−0005−800

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 0 feet

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Site Status: Active
Expiration Date of the facility's registration certificate: 01/31/2011

Facility Type: Trucking/Transportation/Fleet Operation

Additional PBS information for this site has been publicly withheld by the NYSDEC. The following is historic data:

Operator Name: NA
Owner Name: GARY M. TISCHLER − V.P.
Owner Company: NR PROPERTY 2 LLC
Owner Address: 420 LEXINGTON AVENUE, NEW YORK, NY 10170−0002

Operator Phone #:
Owner Type: Corporate or Commercial

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
0010	Closed − Removed	#2 Fuel Oil	5000	Underground	12/01/1957		02/01/1993
002	Closed − Removed	Gasoline	550	Underground			
003	Closed − Removed	Gasoline	550	Underground			
004	Closed − Removed	Gasoline	550	Underground			
005	Closed − Removed	Gasoline	550	Underground			
006	Closed − Removed	Gasoline	550	Underground			
007	Closed − Removed	Gasoline	550	Underground			
008	Closed − Removed	Gasoline	550	Underground			
009	Closed − Removed	Gasoline	550	Underground			
010	Closed − Removed	Gasoline	550	Underground			
011	In Service	#2 Fuel Oil	2500	Underground	02/01/1993		
The following tank(s) were either deleted from the reported data or the number was re−assigned.							
001	In Service	#1 2 OR 4 FUEL OIL	5000	Underground	12/01/1957		

TANK NUMBER: 0010
TANK EXT. PROTECTION: None
PIPING EXT. PROTECTN: None

TANK TYPE: Steel/Carbon Steel/Iron
TANK LEAK DETECTN: None
PIPING LEAK DETECTN:

TK INT. PROTECTION: None
TK SEC. CONTAINMNT: Vault (w/o access)
PIPE SEC. CONTAINMNT:

**** TANK INFO FOR THIS SITE CONTINUES ON NEXT PAGE ****

PIPING TYPE: Steel/Carbon Steel/Iron
PIPING LOCATION: Aboveground
OVERFILL PROTECTION: None
SPILL PREVENTION:
DISPENSER METHOD:

TANK NUMBER: 002
TANK TYPE: Steel/Carbon Steel/Iron
TK INT. PROTECTION: None
TANK EXT. PROTECTION: Painted/Asphalt Coating
TANK LEAK DETECTN: None
TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None
PIPING LEAK DETECTN:
PIPE SEC. CONTAINMNT:
PIPING TYPE: Steel/Carbon Steel/Iron
PIPING LOCATION: Underground/On−ground
OVERFILL PROTECTION: None
SPILL PREVENTION:
DISPENSER METHOD: Suction

TANK NUMBER: 003
TANK TYPE: Steel/Carbon Steel/Iron
TK INT. PROTECTION: None
TANK EXT. PROTECTION: Painted/Asphalt Coating
TANK LEAK DETECTN: None
TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None
PIPING LEAK DETECTN:
PIPE SEC. CONTAINMNT:
PIPING TYPE: Steel/Carbon Steel/Iron
PIPING LOCATION: Underground/On−ground
OVERFILL PROTECTION: None
SPILL PREVENTION:
DISPENSER METHOD: Suction

TANK NUMBER: 004
TANK TYPE: Steel/Carbon Steel/Iron
TK INT. PROTECTION: None
TANK EXT. PROTECTION: Painted/Asphalt Coating
TANK LEAK DETECTN: None
TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None
PIPING LEAK DETECTN:
PIPE SEC. CONTAINMNT:
PIPING TYPE: Steel/Carbon Steel/Iron
PIPING LOCATION: Underground/On−ground
OVERFILL PROTECTION: None
SPILL PREVENTION:
DISPENSER METHOD: Suction

TANK NUMBER: 005
TANK TYPE: Steel/Carbon Steel/Iron
TK INT. PROTECTION: None
TANK EXT. PROTECTION: Painted/Asphalt Coating
TANK LEAK DETECTN: None
TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None
PIPING LEAK DETECTN:
PIPE SEC. CONTAINMNT:
PIPING TYPE: Steel/Carbon Steel/Iron
PIPING LOCATION: Underground/On−ground
OVERFILL PROTECTION: None
SPILL PREVENTION:
DISPENSER METHOD: Suction

TANK NUMBER: 006
TANK TYPE: Steel/Carbon Steel/Iron
TK INT. PROTECTION: None
TANK EXT. PROTECTION: Painted/Asphalt Coating
TANK LEAK DETECTN: None
TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None
PIPING LEAK DETECTN:
PIPE SEC. CONTAINMNT:
PIPING TYPE: Steel/Carbon Steel/Iron
PIPING LOCATION: Underground/On−ground
OVERFILL PROTECTION: None
SPILL PREVENTION:
DISPENSER METHOD: Suction

TANK NUMBER: 007
TANK TYPE: Steel/Carbon Steel/Iron
TK INT. PROTECTION: None
TANK EXT. PROTECTION: Painted/Asphalt Coating
TANK LEAK DETECTN: None
TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None
PIPING LEAK DETECTN:
PIPE SEC. CONTAINMNT:
PIPING TYPE: Steel/Carbon Steel/Iron
PIPING LOCATION: Underground/On−ground
OVERFILL PROTECTION: None
SPILL PREVENTION:
DISPENSER METHOD: Suction

TANK NUMBER: 008
TANK TYPE: Steel/Carbon Steel/Iron
TK INT. PROTECTION: None
TANK EXT. PROTECTION: Painted/Asphalt Coating
TANK LEAK DETECTN: None
TK SEC. CONTAINMNT: None
PIPING EXT. PROTECTN: None
PIPING LEAK DETECTN:
PIPE SEC. CONTAINMNT:
PIPING TYPE: Steel/Carbon Steel/Iron
PIPING LOCATION: Underground/On−ground
OVERFILL PROTECTION: None
SPILL PREVENTION:
DISPENSER METHOD: Suction

**** TANK INFO FOR THIS SITE CONTINUES ON NEXT PAGE ****

TANK NUMBER:	009	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	Painted/Asphalt Coating	TANK LEAK DETECTN:	None	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Steel/Carbon Steel/Iron	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Suction

TANK NUMBER:	010	TANK TYPE:	Steel/Carbon Steel/Iron	TK INT. PROTECTION:	None
TANK EXT. PROTECTION:	Painted/Asphalt Coating	TANK LEAK DETECTN:	None	TK SEC. CONTAINMNT:	None
PIPING EXT. PROTECTN:	None	PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Steel/Carbon Steel/Iron	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:		DISPENSER METHOD:	Suction

TANK NUMBER:	011	TANK TYPE:	Fiberglass Reinforced Plastic (FRP)	TK INT. PROTECTION:	Fiberglass Liner (FRP)
TANK EXT. PROTECTION:	Fiberglass	TANK LEAK DETECTN:	In−Tank System (ATG)	TK SEC. CONTAINMNT:	Double−Walled (Underground)
PIPING EXT. PROTECTN:	Fiberglass	PIPING LEAK DETECTN:	Exempt Suction Piping	PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Fiberglss Reinforcd Plastic(FRP)	PIPING LOCATION:	Underground/On−ground		
OVERFILL PROTECTION:	None	SPILL PREVENTION:	Catch Basin	DISPENSER METHOD:	Suction

The following tank data pertains to a tank or tanks that were either deleted from the reported data or the tank number was re−assigned.

TANK NUMBER:	001	TANK TYPE:	Steel/Carbon Steel	TK INT. PROTECTION:	
TANK EXT. PROTECTION:		TANK LEAK DETECTN:	None	TK SEC. CONTAINMNT:	Vault
PIPING EXT. PROTECTN:		PIPING LEAK DETECTN:		PIPE SEC. CONTAINMNT:	
PIPING TYPE:	Steel/Iron	PIPING LOCATION:			
OVERFILL PROTECTION:		SPILL PREVENTION:		DISPENSER METHOD:	Suction

Map Identification Number 223 **AMERICAN SELF STORAGE** **Facility Id: 2−609485** **Source: NYS DEC**

586 RIVER AVENUE / 595 GERARD AVENUE BRONX, 10451 TT−Id: 640A−0005−801

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 229 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: 586 RIVER AVE
Revised zip code: NO CHANGE

Site Status: Active
Expiration Date of the facility's registration certificate: 03/17/2019

Facility Type: Other

Additional PBS information for this site has been publicly withheld by the NYSDEC. The following is historic data:

Operator Name: AMERICAN SELF STORAGE
Operator Phone #: (718) 402−6800
Owner Name: JOHN DELMONACO − PARTNER
Owner Company: GERARD AVENUE LLC
Owner Type: Corporate or Commercial
Owner Address: 788 SHREWSBURY AVE, SUITE 105, TINTON FALLS, NJ 07724

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	In Service	#2 Fuel Oil	10000	Aboveground on Crib Rack or Cradle	01/01/1952		

TANK NUMBER: 001
TANK EXT. PROTECTION: None
PIPING EXT. PROTECTN: None
PIPING TYPE: Steel/Carbon Steel/Iron
OVERFILL PROTECTION: None

TANK TYPE: Steel/Carbon Steel/Iron
TANK LEAK DETECTN: None
PIPING LEAK DETECTN: None
PIPING LOCATION: Aboveground
SPILL PREVENTION: None

TK INT. PROTECTION: None
TK SEC. CONTAINMNT: Double−Walled (Underground)
PIPE SEC. CONTAINMNT: None

DISPENSER METHOD: Suction

Map Identification Number 224 **ST LUKE'S HOSPITAL** **Facility Id: NY09332** **Source: NYC FIRE DEPT**
595 GERARD AVE BRONX, NY 10451 TT−Id: 660A−0001−049

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 229 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

NOTE: This is an archived database

Comments: F O NO 4 10000G

Map Identification Number 225 **585 GERARD AVENUE CORP.** **Facility Id: 2−070394** **Source: NYS DEC**
585 GERARD AVENUE BRONX, 10451 TT−Id: 640A−0005−807

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 311 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Site Status: Unregulated/Closed
Expiration Date of the facility's registration certificate:

Facility Type: Other

Additional PBS information for this site has been publicly withheld by the NYSDEC. The following is historic data:

Operator Name: HERBERT W. GLASER
Owner Name: −
Owner Company: 585 GERARD AVENUE CORP.
Owner Address: 50 EAST 153RD ST., BRONX, NY 10451

Operator Phone #: (718) 292−9000
Owner Type: Corporate or Commercial

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	Closed − In Place	#2 Fuel Oil	5000	Aboveground − In Contact with Soil			09/26/1994

Map Identification Number 226 **DSNY M DISTRICT 9 GARAGE** **Facility Id: 2−455660** **Source: NYS DEC**
125 EAST 149TH STREET BRONX, 10451 TT−Id: 640A−0005−822

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 362 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Site Status: Active
Expiration Date of the facility's registration certificate: 12/06/2018

Facility Type: Municipality (Incl. WWTPs, Utilities, Swimming Pools)

Additional PBS information for this site has been publicly withheld by the NYSDEC. The following is historic data:

Operator Name: GARAGE SUPERVISOR
Operator Phone #: (718) 292−7532
Owner Name: JOHN C. − DIC
Owner Company: GERARD REALTY COMPANY
Owner Type: Corporate or Commercial
Owner Address: 112−20 14TH AVENUE, COLLEGE POINT, NY 11356

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
002	Closed − In Place	Gasoline	550	Underground	12/01/1980		07/01/1994
003	Closed − In Place	Gasoline	550	Underground	12/01/1980		07/01/1994
004	Closed − In Place	Gasoline	550	Underground	12/01/1980		07/01/1994
005	Closed − In Place	Gasoline	1080	Underground	12/01/1980		07/01/1994
006	Closed − In Place	Gasoline	1080	Underground	12/01/1980		07/01/1994
007	Closed − In Place	Kerosene	550	Underground	12/01/1980		07/01/1994
008	Closed − In Place	Other	550	Underground	12/01/1980		12/01/2000
009	Closed − In Place	Other	550	Underground	12/01/1980		12/01/2000
010	Closed − In Place	#2 Fuel Oil	2000	Underground	12/01/1980		11/01/1999
011/1	In Service	Biodiesel	4000	Underground	12/01/1998		
The following tank 011/1 content has been deleted or replaced: Diesel							
012/2	In Service	Waste Oil/Used Oil	550	Underground	12/01/2000		
013/3	In Service	MOTOR OIL	2000	Underground	12/01/2000		
The following tank 013/3 content has been deleted or replaced: Lube Oil							
014/4	In Service	HYDRAULIC OIL	2000	Underground	12/01/2000		
001	In Service	#2 Fuel Oil	4000	Underground	04/01/2003		
001−A	Closed − In Place	Diesel	4000	Underground	12/01/1980		12/01/1998

**** TANK INFO CONTINUES ON NEXT PAGE ****

The following tank(s) were either deleted from the reported data or the number was re−assigned.

011	In Service	DIESEL	4000	Underground	12/01/1998
012	In Service	USED OIL	550	Underground	12/01/2000
013	In Service	LUBE OIL	2000	Underground	12/01/2000
014	In Service	LUBE OIL	2000	Underground	12/01/2000

Map Identification Number 227 **151ST AND WALTON LLC** **Facility Id: 2−110981** **Source: NYS DEC**
175 EAST 151ST STREET BRONX, 10451 TT−Id: 640A−0005−804

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 418 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: 175 EAST 151ST ST
Revised zip code: NO CHANGE

Site Status: Active
Expiration Date of the facility's registration certificate: 04/21/2019

Facility Type: Apartment Building/Office Building

Additional PBS information for this site has been publicly withheld by the NYSDEC. The following is historic data:

Operator Name: EDGAR ROMAN
Owner Name: ARTHUR GREEN − REPRESENTATIVE
Owner Company: 151ST AND WALTON LLC
Owner Address: ONE DEPOT PLAZA, PO BOX 549, MAMARONECK, NY 10543

Operator Phone #: (203) 695−2477
Owner Type: Corporate or Commercial

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	In Service	#6 Fuel Oil	5000	Aboveground − In Contact with Soil	07/16/1994		

Map Identification Number 228 **GLOBAL MONTELLO GROUP #1743** **Facility Id: 2−156299** **Source: NYS DEC**
611 GRAND CONCOURSE BRONX, 10451 TT−Id: 640A−0005−832

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 463 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Site Status: Active
Expiration Date of the facility's registration certificate: 05/09/2018

Facility Type: Retail Gasoline Sales

Additional PBS information for this site has been publicly withheld by the NYSDEC. The following is historic data:

Operator Name: DAVID WENT
Operator Phone #: (7‘8) 402−5454
Owner Name: −
Owner Company: GTY−CPG (QNS/BX) LEASING INC.
Owner Type: Corporate or Commercial
Owner Address: 125 JERICHO TURNPIKE, JERICHO, NY 11753

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	Closed Prior to Micro Conversion 03/91	Gasoline	3000	Underground			
002	Closed Prior to Micro Conversion 03/91	Gasoline	3000	Underground			
003	Closed Prior to Micro Conversion 03/91	Gasoline	3000	Underground			
004	Closed Prior to Micro Conversion 03/91	#2 Fuel Oil	550	Underground			
005	Closed Prior to Micro Conversion 03/91	Other	550	Underground			
007	Closed − Removed	Gasoline	4000	Underground	06/01/1989		04/01/1994
008	Closed − Removed	Gasoline	4000	Underground	06/01/1989		04/01/1994
009	Closed − Removed	Gasoline	4000	Underground	06/01/1989		04/01/1994
010	Closed − Removed	Gasoline	4000	Underground	06/01/1989		04/01/1994
011	Tank Converted to Non−Regulated Use	Other	1000	Underground	06/01/1989	11/01/1990	04/01/1994
012	Closed − Removed	#2 Fuel Oil	1000	Underground	06/01/1989		04/01/1994
013	In Service	Gasoline/Ethanol	4000	Underground	04/01/1994	06/29/2006	
The following tank 013 content has been deleted or replaced: Gasoline							
The following tank 013 content has been deleted or replaced: Other							
014	In Service	Gasoline/Ethanol	4000	Underground	04/01/1994	06/29/2006	
The following tank 014 content has been deleted or replaced: Gasoline							
The following tank 014 content has been deleted or replaced: Other							
015	In Service	Gasoline/Ethanol	4000	Underground	04/01/1994	06/29/2006	
The following tank 015 content has been deleted or replaced: Gasoline							
The following tank 015 content has been deleted or replaced: Other							
016	In Service	Gasoline/Ethanol	4000	Underground	04/01/1994	06/29/2006	
The following tank 016 content has been deleted or replaced: Gasoline							
The following tank 016 content has been deleted or replaced: Other							
017	In Service	Gasoline/Ethanol	4000	Underground	04/01/1994	05/01/1999	
The following tank 017 content has been deleted or replaced: Gasoline							
The following tank 017 content has been deleted or replaced: Other							
006	Closed − Removed	Waste Oil/Used Oil	1000	Underground	06/01/1989		01/01/1994
006−A	Closed − Removed	Gasoline	4000	Underground	06/01/1989		04/01/1994

Map Identification Number 229 **MOBIL S/S 17−KRQ BRONX TERMINA** **Facility Id: 2−156590** **Source: NYS DEC**
99 EAST 149TH STREET BRONX, 10451 TT−Id: 640A−0005−812

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 465 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Site Status: Inactive
Expiration Date of the facility’s registration certificate:

Facility Type: Unknown

Additional PBS information for this site has been publicly withheld by the NYSDEC. The following is historic data:

Operator Name: D SHAPIRIO
Operator Phone #: (212) 292−4400
Owner Name: −
Owner Company: MOBIL OIL CORP;ATT:A.J.PRINGLE
Owner Type: Corporate or Commercial
Owner Address: 3225 GALLOWS RD.; ENV.ENGINEER, FAIRFAX, VA 22037

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	Closed − Removed	Gasoline	4000	Underground	12/01/1971		09/01/1991
002	Closed − Removed	Gasoline	4000	Underground	12/01/1971		09/01/1991
003	Closed − Removed	Gasoline	4000	Underground	12/01/1971		09/01/1991
004	Closed − Removed	Gasoline	4000	Underground	12/01/1971		09/01/1991
005	Closed − Removed	Gasoline	4000	Underground	12/01/1971		09/01/1991
006	Tank Converted to Non−Regulated Use	#2 Fuel Oil	550	Underground	12/01/1971		09/01/1991
007	Tank Converted to Non−Regulated Use	Other	550	Underground	12/01/1971		06/09/2000

Map Identification Number 230 **BP#13990** **Facility Id: 2−600626** **Source: NYS DEC**
99−113 149TH STREET BRONX, 10451 TT−Id: 640A−0005−835

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 465 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: 99 EAST 149TH STREET
Revised zip code: NO CHANGE

Site Status: Active
Expiration Date of the facility's registration certificate: 01/22/2017

Facility Type: Retail Gasoline Sales

Additional PBS information for this site has been publicly withheld by the NYSDEC. The following is historic data:

Operator Name: BILLY FARACI
Operator Phone #: (718) 585−2526
Owner Name: JOHN W. MAHONEY − RETAIL COMPLIANCE COORDINATOR
Owner Company: CROSS DEEGAN REALTY CORPORATION
Owner Type: Corporate or Commercial
Owner Address: 3333 NEW HYDE PARK ROAD, SUITE 201, NEW HYDE PARK, NY 11042

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
03	In Service	Gasoline/Ethanol	4000	Underground	09/01/1990	08/11/2010	
The following tank 03 content has been deleted or replaced: Gasoline							
The following tank 03 content has been deleted or replaced: Other							
02	In Service	Gasoline/Ethanol	4000	Underground	09/01/1990	08/11/2010	
The following tank 02 content has been deleted or replaced: Gasoline							
The following tank 02 content has been deleted or replaced: Other							
05	In Service	Gasoline/Ethanol	4000	Underground	09/01/1990	08/11/2010	
The following tank 05 content has been deleted or replaced: Gasoline							
The following tank 05 content has been deleted or replaced: Other							

**** TANK INFO CONTINUES ON NEXT PAGE ****

01	In Service	Gasoline/Ethanol	4000	Underground	09/01/1990	08/11/2010
The following tank 01 content has been deleted or replaced: Gasoline						
The following tank 01 content has been deleted or replaced: Other						
04	In Service	Gasoline/Ethanol	4000	Underground	09/01/1990	08/11/2010
The following tank 04 content has been deleted or replaced: Gasoline						
The following tank 04 content has been deleted or replaced: Other						
06	In Service	Waste Oil/Used Oil	2500	Underground	02/01/1995	
The following tank 06 content has been deleted or replaced: Lube Oil						
The following tank 06 content has been deleted or replaced: Other						
07	In Service	MOTOR OIL	1000	Underground	02/01/1995	
The following tank 07 content has been deleted or replaced: Lube Oil						
The following tank 07 content has been deleted or replaced: Other						
08	In Service	MOTOR OIL	1000	Underground	02/01/1995	
The following tank 08 content has been deleted or replaced: Lube Oil						
The following tank 08 content has been deleted or replaced: Other						
09	In Service	TRANSMISSION FLUID	600	Underground	02/01/1995	
The following tank 09 content has been deleted or replaced: Other						
The following tank 09 content has been deleted or replaced: Other						
10	In Service	#2 Fuel Oil	275	Underground	02/01/1995	
The following tank(s) were either deleted from the reported data or the number was re−assigned.						
18980	In Service	UNLEADED GASOLINE	4000	Underground Vaulted w/ Access	09/90	
18981	In Service	UNLEADED GASOLINE	4000	Underground Vaulted w/ Access	09/90	
18984	In Service	UNLEADED GASOLINE	4000	Underground Vaulted w/ Access	09/90	
18985	In Service	UNLEADED GASOLINE	4000	Underground Vaulted w/ Access	09/90	
18986	In Service	UNLEADED GASOLINE	4000	Underground Vaulted w/ Access	09/90	

Map Identification Number 231 **ENGINE COMPANY 41** **Facility Id: 2−604541** **Source: NYS DEC**
150 E. 150TH STREET BRONX, 10451 TT−Id: 640A−0005−828

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 477 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Site Status: Unregulated/Closed
Expiration Date of the facility's registration certificate:

Facility Type: Other

Additional PBS information for this site has been publicly withheld by the NYSDEC. The following is historic data:

Operator Name: JOSEPH MASTROPIETRO
Operator Phone #: (718) 784−6500
Owner Name: −
Owner Company: NEW YORK CITY FIRE DEPARTMENT
Owner Type: Local Government
Owner Address: 48−34 35TH STREET, LONG ISLAND CITY, NY 11101

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	Closed − Removed	#2 Fuel Oil	2000	Aboveground on Crib Rack or Cradle			

Map Identification Number 232 **151 EAST 151ST STREET** **Facility Id: 2−610934** **Source: NYS DEC**
151 EAST 151ST STREET BRONX, 10451 TT−Id: 640A−0081−187

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 480 feet to the NNE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Site Status: Unregulated/Closed
Expiration Date of the facility's registration certificate:

Facility Type: Other

Additional PBS information for this site has been publicly withheld by the NYSDEC. The following is historic data:

Operator Name: SHELDON TROTMAN
Owner Name: R. SKALLERUP − DEPUTY COMMISSIONER
Owner Company: NEW YORK CITY DEPT OF HOMELESS SERVICES
Owner Address: 33 BEAVER ST., 13TH FLOOR, NEW YORK, NY 10004

Operator Phone #: (212) 312−4737

Owner Type:

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	Closed − Removed	Gasoline	550	Underground Vaulted with Access	10/26/1982		09/20/2008
002	Closed − Removed	Gasoline	550	Underground Vaulted with Access	10/26/1982		09/20/2008
003	Closed − Removed	Gasoline	550	Underground Vaulted with Access	10/26/1982		09/20/2008
004	Closed − Removed	Gasoline	550	Underground Vaulted with Access	10/26/1982		09/20/2008
005	Closed − Removed	Gasoline	550	Underground Vaulted with Access	10/26/1982		09/20/2008
006	Closed − Removed	Gasoline	550	Underground Vaulted with Access	10/26/1982		09/20/2008

Map Identification Number 233 **CONCOURSE METRO TIRE** **Facility Id: NY02816** **Source: NYC FIRE DEPT**
579 GRAND CONCOURSE BRONX, NY 10451 TT−Id: 660A−0000−396

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 506 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

NOTE: This is an archived database

Comments:

Map Identification Number 234 **557 GRAND CONCOURSE** **Facility Id: 2−207608** **Source: NYS DEC**
557 GRAND CONCOURSE BRONX, 10451 TT−Id: 640A−0005−814

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 571 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

Site Status: Unregulated/Closed
Expiration Date of the facility's registration certificate:

Facility Type: Retail Gasoline Sales

Additional PBS information for this site has been publicly withheld by the NYSDEC. The following is historic data:

Operator Name: JOSE PEREZ
Operator Phone #: (212) 665−0844
Owner Name: CARY WOLF − PRESIDENT
Owner Company: GRAND CONCOURSE REALTY CORPORATION
Owner Type: Corporate or Commercial
Owner Address: 125 JERICHO TURNPIKE, JERICHO, NY 11753

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	Closed − Removed	Gasoline	4000	Underground	12/01/1971	05/08/2001	11/01/2006
002	Closed − Removed	Gasoline	4000	Underground	12/01/1971	05/08/2001	11/01/2006
003	Closed − Removed	Gasoline	4000	Underground	12/01/1971	05/08/2001	11/01/2006
004	Closed − Removed	#2 Fuel Oil	550	Underground	12/01/1971		11/01/2006
005	Closed − Removed	Waste Oil/Used Oil	550	Underground	12/01/1971		08/01/2000

Map Identification Number 235 **JOSE PEREZ** **Facility Id: 2−482803** **Source: NYS DEC**
557 GRAND CONCOURSE BRONX, 10450 TT−Id: 640A−0005−834

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 571 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10451

Site Status: Inactive
Expiration Date of the facility's registration certificate:

Facility Type: Unknown

Additional PBS information for this site has been publicly withheld by the NYSDEC. The following is historic data:

Operator Name: JOSE PEREZ
Operator Phone #: (212) 665−0844
Owner Name: −
Owner Company: STORAGE MAINTAINENCE
Owner Type:
Owner Address: 55 JERCHO TURNPIKE, JERICHO, NY 11753

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	Tank Converted to Non−Regulated Use	Gasoline	4000	Underground	12/01/1971		01/01/1995
002	Tank Converted to Non−Regulated Use	Gasoline	4000	Underground	12/01/1971		01/01/1995
003	Tank Converted to Non−Regulated Use	Gasoline	4000	Underground	12/01/1971		01/01/1995
004	Tank Converted to Non−Regulated Use	#2 Fuel Oil	550	Underground	12/01/1971		01/01/1995
005	Tank Converted to Non−Regulated Use	Other	550	Underground	12/01/1971		01/01/1995

Map Identification Number 236 **BRONX TERMINAL MARKET WATERFRONT PARK** **Facility Id: 2−610368** **Source: NYS DEC**
EXTERIOR STREET & EAST 150TH STREET BRONX, 10451 TT−Id: 640A−0001−167

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 638 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: EXTERIOR STREET / EAST 150TH STREET
Revised zip code: NO CHANGE

Site Status: Unregulated/Closed
Expiration Date of the facility's registration certificate:

Facility Type: Other

Additional PBS information for this site has been publicly withheld by the NYSDEC. The following is historic data:

Operator Name: NYC PARK & RECREATION
Operator Phone #: (718) 760−6725
Owner Name: JOHN NATOLI − CHIEF ENGINEER
Owner Company: NYC PARKS & RECREATION
Owner Type: Local Government
Owner Address: OLMSTED CENTER, FLUSHING MEADOWS−CORONA PARK, FLUSHING, NY 11368

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	Closed − Removed	#2 Fuel Oil	2000	Underground	07/01/1970		
002	Closed − Removed	Diesel	550	Underground	07/01/1970		
003	Closed − Removed	Diesel	550	Underground	07/01/1970		
004	Closed − Removed	Diesel	550	Underground	07/01/1970		
005	Closed − Removed	Diesel	550	Underground	07/01/1970		
006	Closed − Removed	Diesel	550	Underground	07/01/1970		02/09/2007
007	Closed − Removed	Diesel	550	Underground	07/01/1970		02/09/2007
008	Closed − Removed	Diesel	550	Underground	07/01/1970		02/09/2007

**** TANK INFO CONTINUES ON NEXT PAGE ****

009	Closed − Removed	Diesel	550	Underground	07/01/1970	02/09/2007

Map Identification Number 237 **BRONX HOUSE OF DETENTION FOR MEN** **Facility Id: 2−187801** **Source: NYS DEC**
653 RIVER AVENUE BRONX, 10451 TT−Id: 640A−0001−764

MAP LOCATION INFORMATION
Site location mapped by:
Approximate distance from property: 644 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: 653 RIVER AVE
Revised zip code: NO CHANGE

Site Status: Unregulated/Closed
Expiration Date of the facility's registration certificate:

Facility Type: Municipality (Incl. WWTPs, Utilities, Swimming Pools)

Additional PBS information for this site has been publicly withheld by the NYSDEC. The following is historic data:

Operator Name: ED HILLA
Operator Phone #: (718) 513−7723
Owner Name: −
Owner Company: NYC ECONOMIC DEVELOPMENT CORPORATION
Owner Type: Local Government
Owner Address: 110 WILLAIM ST, NEW YORK, NY 10038

TANK NUMBER	TANK STATUS	TANK CONTENT	CAPACITY GALLONS	TANK LOCATION	INSTALL DATE	TEST DATE	CLOSE DATE
001	Closed − Removed	#6 Fuel Oil	7000	Underground	12/01/1946		05/03/2003
002	Closed − Removed	#6 Fuel Oil	7000	Underground	12/01/1946		05/09/2003
003	Closed − Removed	#6 Fuel Oil	15000	Underground	12/01/1946		05/09/2003
004	Closed − Removed	#2 Fuel Oil	4000	Underground	12/01/1981	12/01/1998	05/09/2003
5	Tank Converted to Non−Regulated Use	Other	5000	Underground	11/03/2004		
The following tank 5 content has been deleted or replaced: Diesel							
The following tank 5 content has been deleted or replaced: Other							
6	Tank Converted to Non−Regulated Use	Other	12000	Underground	11/03/2004		
The following tank 6 content has been deleted or replaced: #2 Fuel Oil							
The following tank 6 content has been deleted or replaced: Other							
7	Tank Converted to Non−Regulated Use	Other	12000	Underground	11/03/2004		
The following tank 7 content has been deleted or replaced: #2 Fuel Oil							
The following tank 7 content has been deleted or replaced: Other							

Map Identification Number 238 **C KENNETH IMPORTS CO.** **Facility Id: NY02313** **Source: NYC FIRE DEPT**
586 CROMWELL AVE BRONX, NY 10451 TT−Id: 660A−0000−342

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 644 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

NOTE: This is an archived database

Comments: 2500 #2 OIL

Map Identification Number 239 **HOSANNA PAPER CO** **Facility Id: NY04829** **Source: NYC FIRE DEPT**
586 CROMWELL AVE BRONX, NY 10451 TT−Id: 660A−0000−602

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 644 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

NOTE: This is an archived database

Comments: 2500 #2OIL

Map Identification Number 240 **HOSTOS COMMUNITY COLLEGE** **Facility Id: NY04830** **Source: NYC FIRE DEPT**
120 E 149 ST BRONX, NY 10451 TT−Id: 660A−0001−318

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 660 feet to the S

ADDRESS CHANGE INFORMATION
Revised street: 120 E 149TH ST
Revised zip code: NO CHANGE

NOTE: This is an archived database

Comments: FUEL OIL 4000G

HAZARDOUS WASTE GENERATORS/TRANSPORTERS IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 241 **NYSDEC Name:** **US POSTAL SERVICE − VMF** **Facility Id: NY5180010451**

NYSDEC Address: 580 GERARD AVE BRONX, NY 10451 TT−Id: 740A−0003−996
EPA (RCRA) Name: US POSTAL SERVICE − VMF
EPA (RCRA) Address: 580 GERARD AVE BRONX, NY 10451−5242

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 0 feet

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Land Disposal: Receives offsite waste:
Storer: Treatment facility:
Contact Name: THOMAS SCOPAC Source Type: Notification

Notification date: 09/29/1989
Incinerator:
Transporter:
Contact Phone: 718−960−5036 Contact Info Date: 09/29/1989

Historically listed as the following USEPA RCRA Generator Size(s) as well:
LARGE QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	YEAR
NONE	Site reported by US EPA. No hazardous waste activity reported by NYS.						

Map Identification Number 242 **NYSDEC Name:** **UNITED STATES POST OFFICE** **Facility Id: NYD982727885**

NYSDEC Address: 580 GERARD AVE BRONX, NY 10451 TT−Id: 740A−0003−997
EPA (RCRA) Name: US POSTAL SERVICE − VMF
EPA (RCRA) Address: 580 GERARD AVE BRONX, NY 10451

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 0 feet

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA Type: SMALL QUANTITY GENERATOR
Notification date: 03/17/1989
Land Disposal: Receives offsite waste:
Incinerator:
Storer: Treatment facility:
Transporter:

Contact Name: ROBERT SKRIVANEK	Source Type: Implementer	Contact Phone: 718−960−5031	Contact Info Date: 10/10/2007
Contact Name: RONALD RUFF	Source Type: Notification	Contact Phone: 718−960−5031	Contact Info Date: 03/17/1989
Contact Name: ROBERT SKRIVANEK	Source Type: Annual/Biennial Report	Contact Phone: 212−330−3123	Contact Info Date: 03/01/1992

Historically listed as the following USEPA RCRA Generator Size(s) as well:
CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR

US EPA RCRA Violations:

Violation Type: Generators − General
Violation Number: 0001 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/28/1994
Violation Return to Compliance: 12/19/1994

Violation Type: LDR − General
Violation Number: 0002 Location: NY
Former Citation:
Responsible Agency: STATE
Violation Determination Date: 09/28/1994
Violation Return to Compliance: 12/19/1994

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
More than one waste code was reported for the following waste amount:		4	POUNDS	GENERATED	2009		
D001	Solid waste that exhibits the characteristic of ignitability						
D006	Cadmium						
D018	BENZENE						
More than one waste code was reported for the following waste amount:		100	POUNDS	GENERATED	2008	400	2007
D001	Solid waste that exhibits the characteristic of ignitability						
D008	Lead						
D018	BENZENE						
More than one waste code was reported for the following waste amount:		795	POUNDS	GENERATED	2007		
D001	Solid waste that exhibits the characteristic of ignitability						
D018	BENZENE						
More than one waste code was reported for the following waste amount:		500	POUNDS	GENERATED	2007		
F005	Spent non−halogenated solvents						
F003	Spent non−halogenated solvents						

NYS DEC Manifested Waste Transactions for NYD982727885 continued −−− see previous page

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D001	Solid waste that exhibits the characteristic of ignitability						
D035	Methyl ethyl ketone						
D001	Solid waste that exhibits the characteristic of ignitability	1000	POUNDS	GENERATED	2006	4652	1993
D007	Chromium	600	POUNDS	GENERATED	2006		
F005	Spent non−halogenated solvents	660	POUNDS	GENERATED	2006	819	1990
D001	Solid waste that exhibits the characteristic of ignitability	55	GALLONS	GENERATED	2005	385	1993
D039	Tetrachloroethylene	19	GALLONS	GENERATED	2005	70	1996
D002	Solid waste that exhibits the characteristic of corrosivity	45	POUNDS	GENERATED	2000		
D005	Barium	150	POUNDS	GENERATED	2000		
D006	Cadmium	30	GALLONS	GENERATED	1997		
D018	BENZENE	1384	POUNDS	GENERATED	1995		
D008	Lead	120	GALLONS	GENERATED	1993		
F003	Spent non−halogenated solvents	27	POUNDS	GENERATED	1992	135	1990

Map Identification Number 243 **NYSDEC Name:** **AUTORAMA ENTERPRISES OF BRONX** **Facility Id: NYR000100255**

NYSDEC Address: 610 GERARD AVE BRONX, NY 10451 TT−Id: 740A−0004−002
EPA (RCRA) Name: AUTORAMA ENTERPRISES OF BRONX
EPA (RCRA) Address: 610 GERARD AVE BRONX, NY 10451

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 0 feet

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Land Disposal: Receives offsite waste:
Storer: Treatment facility:

Notification date: 08/29/2001
Incinerator:
Transporter:

Contact Name: MIRIAM BURGOS Source Type: Implementer Contact Phone: 718−585−7100 Contact Info Date: 01/01/2007
Contact Name: MIRIAM BURGOS Source Type: Notification Contact Phone: 718−585−7100 Contact Info Date: 08/29/2001

Historically listed as the following USEPA RCRA Generator Size(s) as well:
SMALL QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	YEAR
NONE	Site reported by US EPA. No hazardous waste activity reported by NYS.						

Map Identification Number 244 **NYSDEC Name:** **CON EDISON** **Facility Id: NYP004813883**

NYSDEC Address: 602 WALTON AVE BRONX, NY 10451 TT−Id: 740A−0148−073
EPA (RCRA) Name: CON EDISON
EPA (RCRA) Address: 602 WALTON AVE BRONX, NY 10451

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (4)
Approximate distance from property: 196 feet to the ESE*

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Land Disposal: Receives offsite waste:
Storer: Treatment facility:
Contact Name: THOMAS TEELING Source Type: Emergency Contact Phone: 212−460−3770 Contact Info Date: 07/28/2015
Contact Name: THOMAS TEELING Source Type: Implementer Contact Phone: 212−460−3770 Contact Info Date: 07/28/2015

Notification date: None Given
Incinerator:
Transporter:

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	YEAR
NONE	Site reported by US EPA. No hazardous waste activity reported by NYS.						

Map Identification Number 245 **NYSDEC Name:** **DGI TRANSPORT CORP** **Facility Id: NYN30003A415**

NYSDEC Address: 586 RIVER AVE BRONX, NY 10451 TT−Id: 740A−0004−017

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 201 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

This facility has been deleted from the reported data. Data reflects last reported information.

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
NONE	No hazardous waste activity reported by NYS up to 1/28/2018.						

Map Identification Number 246 **NYSDEC Name:** **CON EDISON − MANHOLE 32269** **Facility Id: NYP004998682**
NYSDEC Address: 595 GERARD AVE BRONX, NY 10451 TT−Id: 740A−0150−464

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 201 feet to the WNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
NONE	No hazardous waste activity reported by NYS up to 1/28/2018.						

Map Identification Number 247 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004045266**
NYSDEC Address: MH4513−E 150TH ST & GERARD AVE BRONX, NY TT−Id: 740A−0003−999

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 213 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: E 150TH ST / GERARD AVE
Revised zip code: 10451

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.	112	KILOGRAMS	GENERATED	1999		

Map Identification Number 248 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004045357**
NYSDEC Address: TMH625−150TH ST & GERARD AVE BRONX, NY TT−Id: 740A−0003−998

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 213 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: E 150TH ST / GERARD AVE
Revised zip code: 10451

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
B002	Petroleum oil or other liquid containing 50 ppm < PCBs < 500 ppm	364	KILOGRAMS	GENERATED	1999		

Map Identification Number 249 **NYSDEC Name:** **CONSOLIDATED EDISON − TM 625** **Facility Id: NYP004212635**
NYSDEC Address: 150 & GERRARD BRONX, NY 10451 TT−Id: 740A−0072−560
EPA (RCRA) Name: CON EDISON
EPA (RCRA) Address: GERARD AVE & E 150TH ST BRONX, NY 10453

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 213 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: E 150TH ST / GERARD AVE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Notification date: None Given
Land Disposal:
Receives offsite waste:
Incinerator:
Storer:
Treatment facility:
Transporter:
Contact Name: DENNIS ROHRER
Source Type: Emergency
Contact Phone: 914−925−6219
Contact Info Date: 08/02/2010

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	300	POUNDS	GENERATED	2010		

Map Identification Number 250
NYSDEC Name: **CON EDISON**
NYSDEC Address: GERARD AVE & E 150 ST
TM623
BRONX, NY 10461
Facility Id: NYP004648499
TT−Id: 740A−0115−496

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 213 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: GERARD AVE / E 150TH ST
Revised zip code: NO CHANGE

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	1500	POUNDS	GENERATED	2014		

Map Identification Number 251
NYSDEC Name: **CON EDISON**
NYSDEC Address: 624 WALTON AVE
BRONX, NY 10451
EPA (RCRA) Name: CON EDISON
EPA (RCRA) Address: 624 WALTON AVE
BRONX, NY 10451
Facility Id: NYP004779658
TT−Id: 740A−0135−000

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 280 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Notification date: None Given
Land Disposal: Receives offsite waste:
Incinerator:
Storer: Treatment facility:
Transporter:
Contact Name: THERESA BURKARD Source Type: Annual/Biennial Report update with Notification Contact Phone: 212−460−2262 Contact Info Date: 02/05/2016
Contact Name: THOMAS TEELING Source Type: Emergency Contact Phone: 212−460−3770 Contact Info Date: 05/06/2015
Contact Name: THOMAS TEELING Source Type: Implementer Contact Phone: 212−460−3770 Contact Info Date: 05/06/2015

Historically listed as the following USEPA RCRA Generator Size(s) as well:
LARGE QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	YEAR
D008	Lead	5000	POUNDS	GENERATED	2015		

Map Identification Number 252 **NYSDEC Name:** **CON EDISON** **Facility Id: NYP004206936**
NYSDEC Address: E 151ST ST & WALTON AVE BRONX, NY 10454 TT−Id: 740A−0071−610
EPA (RCRA) Name: CON EDISON
EPA (RCRA) Address: E 151ST ST & WALTON AVE BRONX, NY 10454

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 337 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: E 151ST ST / WALTON AVE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Notification date: None Given
Land Disposal: Receives offsite waste:
Incinerator:
Storer: Treatment facility:
Transporter:
Contact Name: DAVID DUKE Source Type: Emergency Contact Phone: 917−559−8971 Contact Info Date: 05/20/2010

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	YEAR

NONE Site reported by US EPA. No hazardous waste activity reported by NYS.

Map Identification Number 253 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004206937**
NYSDEC Address: MH9515 − E 151ST ST / WALTON AVE BRONX, NY TT−Id: 740A−0071−667

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 337 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: E 151ST ST / WALTON AVE
Revised zip code: NO CHANGE

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	100	POUNDS	GENERATED	2010		

Map Identification Number 254 **NYSDEC Name:** **CON EDISON TRANSFORMER MANHOLE: 643** **Facility Id: NYP004283008**
NYSDEC Address: E 151ST ST & WALTON AVE BRONX, NY 10451 TT−Id: 740A−0087−182
EPA (RCRA) Name: CON EDISON TRANSFORMER MANHOLE: 643
EPA (RCRA) Address: E 151ST ST & WALTON AVE BRONX, NY 10451

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 337 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: E 151ST ST / WALTON AVE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Notification date: None Given
Land Disposal: Receives offsite waste:
Incinerator:
Storer: Treatment facility:
Transporter:
Contact Name: DOMINIC BIZZARO Source Type: Emergency Contact Phone: 914−925−6219 Contact Info Date: 01/13/2013
Contact Name: DOMINIC BIZZARO Source Type: Implementer Contact Phone: 914−925−6219 Contact Info Date: 07/28/2017

Historically listed as the following USEPA RCRA Generator Size(s) as well:
CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
NONE	Site reported by US EPA. No hazardous waste activity reported by NYS.						

Map Identification Number 255 **NYSDEC Name:** **CON EDISON MANHOLE: 9515** **Facility Id: NYP004289401**

NYSDEC Address: E 151ST ST & WALTON AVE BRONX, NY 10451 TT−Id: 740A−0087−184
EPA (RCRA) Name: CON EDISON MANHOLE: 9515
EPA (RCRA) Address: E 151ST ST & WALTON AVE BRONX, NY 10451

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 337 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: E 151ST ST / WALTON AVE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Land Disposal: Receives offsite waste:
Storer: Treatment facility:
Contact Name: DOMINIC BIZZARO Source Type: Emergency Contact Phone: 914−925−6219 Contact Info Date: 02/14/2013
Contact Name: DOMINIC BIZZARO Source Type: Implementer Contact Phone: 914−925−6219 Contact Info Date: 03/14/2013

Notification date: None Given
Incinerator:
Transporter:

Historically listed as the following USEPA RCRA Generator Size(s) as well:
CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
NONE	Site reported by US EPA. No hazardous waste activity reported by NYS.						

Map Identification Number 256 **NYSDEC Name:** **CON EDISON** **Facility Id: NYP004289674**

NYSDEC Address: E. 151ST. STREET & WALTON AVENUE BRONX, NY 10454 TT−Id: 740A−0085−443
EPA (RCRA) Name: CON EDISON − MANHOLE 9515
EPA (RCRA) Address: E. 151ST. STREET & WALTON AVENUE BRONX, NY 10454

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 337 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: E 151ST ST / WALTON AVE
Revised zip code: 10451

US EPA RCRA Type: LARGE QUANTITY GENERATOR
Notification date: None Given
Land Disposal:
Receives offsite waste:
Incinerator:
Storer:
Treatment facility:
Transporter:
Contact Name: DENNIS HUACON
Source Type: Annual/Biennial Report update with Notification
Contact Phone: 212−460−2757
Contact Info Date: 03/27/2014

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	400	GALLONS	GENERATED	2013		

Map Identification Number 257
NYSDEC Name: **CON EDISON**
Facility Id: NYP004359618
NYSDEC Address: WALTON AVE & E. 251 ST MH # 9515 BRONX, NY 10451
TT−Id: 740A−0134−862
EPA (RCRA) Name: CON EDISON MANHOLE: 9515
EPA (RCRA) Address: 630 WALTON AVE BRONX, NY 10457

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 337 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: WALTON AVE / E 151ST ST
Revised zip code: NO CHANGE

Special Note(s): The New York State Department of Environmental Conservation and the U. S. Environmental Protection Agency have reported different locations for this hazardous waste identification number. Available information for both locations is summarized below.

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Notification date: None Given
Land Disposal:
Receives offsite waste:
Incinerator:
Storer:
Treatment facility:
Transporter:
Contact Name: GINO FRABASILE
Source Type: Emergency
Contact Phone: 914−925−6219
Contact Info Date: 09/12/2013
Contact Name: GINO FRABASILE
Source Type: Implementer
Contact Phone: 914−925−6219
Contact Info Date: 10/12/2013

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	2000	POUNDS	GENERATED	2013		

Map Identification Number 258 **NYSDEC Name:** **CON EDISON** **Facility Id: NYP004784823**

NYSDEC Address: ' WALTON AVE & E 151ST ST' BRONX, NY 10452 TT−Id: 740A−0134−959
EPA (RCRA) Name: CON EDISON
EPA (RCRA) Address: WALTON AVE & E 151ST ST BRONX, NY 10452

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 337 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: WALTON AVE / E 151ST ST
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Land Disposal: Receives offsite waste:
Storer: Treatment facility:

Notification date: None Given
Incinerator:
Transporter:

Contact Name: THERESA BURKARD Source Type: Annual/Biennial Report update with Notification Contact Phone: 212−460−2262 Contact Info Date: 02/05/2016
Contact Name: THOMAS TEELING Source Type: Emergency Contact Phone: 212−460−3770 Contact Info Date: 05/20/2015
Contact Name: THOMAS TEELING Source Type: Implementer Contact Phone: 212−460−3770 Contact Info Date: 05/20/2015

Historically listed as the following USEPA RCRA Generator Size(s) as well:
LARGE QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	4000	POUNDS	GENERATED	2015		

Map Identification Number 259 **NYSDEC Name:** **CON EDISON** **Facility Id: NYP004883043**

NYSDEC Address: 591 RIVER AVE BRONX, NY 10451 TT−Id: 740A−0148−107
EPA (RCRA) Name: CON EDISON
EPA (RCRA) Address: 591 RIVER AVE BRONX, NY 10451

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 378 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Land Disposal: Receives offsite waste:
Storer: Treatment facility:

Notification date: None Given
Incinerator:
Transporter:

Contact Name: THOMAS TEELING Source Type: Emergency Contact Phone: 212−460−3770 Contact Info Date: 12/22/2015
Contact Name: THOMAS TEELING Source Type: Implementer Contact Phone: 212−460−3770 Contact Info Date: 12/22/2015

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
NONE	Site reported by US EPA. No hazardous waste activity reported by NYS.						

Map Identification Number 260 **NYSDEC Name:** **NYCDOS** **Facility Id: NYD981487069**

NYSDEC Address: 125 E 149TH ST BRONX, NY 10451 TT−Id: 740A−0004−011
EPA (RCRA) Name: NYC DEPT OF SANITATION
EPA (RCRA) Address: 125 E 149TH ST BRONX, NY 10451−5343

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 396 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

This facility has been deleted from the reported data. Data reflects last reported information.
US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Notification date: 05/14/1986
Land Disposal: Receives offsite waste: Incinerator:
Storer: Treatment facility: Transporter:
Contact Name: JOE SCHIAVONE Source Type: Notification Contact Phone: 718−292−7531 Contact Info Date: 05/14/1986

Historically listed as the following USEPA RCRA Generator Size(s) as well:
SMALL QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
NONE	No hazardous waste activity reported by NYS up to 1/28/2018.						

Map Identification Number 261 **NYSDEC Name:** **MANHATTAN WEST 9** **Facility Id: NYP000858126**
NYSDEC Address: 125 E 149TH ST BRONX, NY 10013 TT−Id: 740A−0004−027

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 396 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
X722	Waste oil and bottom sludge generated from res/comm fuel oil tank clean−outs	410	GALLONS	GENERATED	1986		

Map Identification Number 262 **EPA (RCRA) Name:** **CON EDISON MANHOLE: 9515** **Facility Id: NYP004359618**
EPA (RCRA) Address: 630 WALTON AVE BRONX, NY 10457 TT−Id: 740A−0134−863
NYSDEC Name: CON EDISON
NYSDEC Address: WALTON AVE & E. 251 ST BRONX, NY 10451
MH # 9515

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 396 feet to the ENE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: 10451

Special Note(s): The New York State Department of Environmental Conservation and the U. S. Environmental Protection Agency have reported different locations for this hazardous waste identification number. Available information for both locations is summarized below.

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Notification date: None Given
Land Disposal:
Receives offsite waste:
Incinerator:
Storer:
Treatment facility:
Transporter:
Contact Name: GINO FRABASILE Source Type: Emergency Contact Phone: 914−925−6219 Contact Info Date: 09/12/2013
Contact Name: GINO FRABASILE Source Type: Implementer Contact Phone: 914−925−6219 Contact Info Date: 10/12/2013

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	2000	POUNDS	GENERATED	2013		

Map Identification Number 263 **NYSDEC Name:** **MOBIL OIL CORP** **Facility Id: NYD986955656**

NYSDEC Address: 611 BRAND CONCOURSE BRONX, NY 10451 TT−Id: 740A−0004−024
EPA (RCRA) Name: GRAND MOBIL CORP KTA
EPA (RCRA) Address: 611 GRAND CONCOURSE BRONX, NY 10451−5200

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 460 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: 611 GRAND CONCOURSE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Notification date: 01/29/1992
Land Disposal: Receives offsite waste:
Incinerator:
Storer: Treatment facility:
Transporter:
Contact Name: DONNA HYMES Source Type: Implementer Contact Phone: 610−430−8151 Contact Info Date: 07/06/2011
Contact Name: JAMIL QUWAIDER Source Type: Notification Contact Phone: 718−665−8503 Contact Info Date: 01/29/1992

Historically listed as the following USEPA RCRA Generator Size(s) as well:
LARGE QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	7557	POUNDS	GENERATED	1994		

Map Identification Number 264 **NYSDEC Name:** **BP WEST COAST PRODUCTS #13990** **Facility Id: NYD986987899**

NYSDEC Address: 99 E 149TH ST BRONX, NY 10451 TT−Id: 740A−0004−015
EPA (RCRA) Name: BP WEST COAST PRODUCTS #13990
EPA (RCRA) Address: 99 E 149TH ST BRONX, NY 10451

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 496 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA Type: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Notification date: 12/13/1991
Land Disposal: Receives offsite waste:
Incinerator:
Storer: Treatment facility:
Transporter:
Contact Name: MARK OKAMOTO Source Type: Notification Contact Phone: 723−743−0901 Contact Info Date: 10/12/2011

Historically listed as the following USEPA RCRA Generator Size(s) as well:
LARGE QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
More than one waste code was reported for the following waste amount:		200	POUNDS	GENERATED	2017		
D018	BENZENE						
D001	Solid waste that exhibits the characteristic of ignitability						
D018	BENZENE	540	POUNDS	GENERATED	2011		

Map Identification Number 265 **NYSDEC Name:** **PROW BUILDING** **Facility Id: NYR000165407**

NYSDEC Address: 560 EXTERIOR ST BRONX, NY 10451 TT−Id: 740A−0065−576
15 MAJOR DEEGAN ROAD
EPA (RCRA) Name: PROW BUILDING
EPA (RCRA) Address: 560 EXTERIOR ST BRONX, NY 10451

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 532 feet to the WSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA Type: LARGE QUANTITY GENERATOR Notification date: 06/09/2009
Land Disposal: Receives offsite waste: Incinerator:
Storer: Treatment facility: Transporter:
Contact Name: ANA BLUMENAU Source Type: Notification Contact Phone: 212−801−1081 Contact Info Date: 06/09/2009

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	1150	POUNDS	GENERATED	2009		

Map Identification Number 266 **NYSDEC Name:** **CON EDISON** **Facility Id: NYP004261830**
NYSDEC Address: GERARD AVE & E 151 ST BRONX, NY TT−Id: 740A−0081−633
EPA (RCRA) Name: CON EDISON MANHOLE: 4520
EPA (RCRA) Address: GERARD AVE & E 151ST ST SW COR BRONX, NY 10451

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 537 feet to the N

ADDRESS CHANGE INFORMATION
Revised street: GERARD AVE / E 151ST ST
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN Notification date: None Given
Land Disposal: Receives offsite waste: Incinerator:
Storer: Treatment facility: Transporter:
Contact Name: CHRISTOPHER BLAICH Source Type: Emergency Contact Phone: 914−925−6219 Contact Info Date: 08/08/2012
Contact Name: CHRISTOPHER BLAICH Source Type: Implementer Contact Phone: 914−925−6219 Contact Info Date: 07/28/2017

Historically listed as the following USEPA RCRA Generator Size(s) as well:
CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	1000	POUNDS	GENERATED	2012		

Map Identification Number 267 **NYSDEC Name:** **NYC DOT** **Facility Id: NYR000100131**

NYSDEC Address: WALTON AVE BRONX, NY TT−Id: 740A−0058−854
EPA (RCRA) Name: NYCDOT BRIDGE BIN 2241410
EPA (RCRA) Address: WALTON AVE BRIDGE OVER METRO NORTH BRONX, NY 10451

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 548 feet to the NE

ADDRESS CHANGE INFORMATION
Revised street: WALTON AVE BRIDGE OVER METRO NORTH
Revised zip code: 10451

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Land Disposal: Receives offsite waste:
Storer: Treatment facility:
Contact Name: ALEX BEZCHASTNOV Source Type: Implementer Contact Phone: 212−788−2091 Contact Info Date: 01/01/2007
Contact Name: ALEX BEZCHASTNOV Source Type: Notification Contact Phone: 212−788−2091 Contact Info Date: 08/27/2001

Notification date: 08/27/2001
Incinerator:
Transporter:

Historically listed as the following USEPA RCRA Generator Size(s) as well:
LARGE QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	100	POUNDS	GENERATED	2002		

Map Identification Number 268 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004225843**

NYSDEC Address: EAST 150ST GRAND CONCOURSE MH 4154 BRONX, NY TT−Id: 740A−0077−345
EPA (RCRA) Name: CON EDISON VAULT 4154
EPA (RCRA) Address: E 150TH ST & GRAND CONCOURSE BRONX, NY 10451

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 557 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: E 150TH ST / GRAND CONCOURSE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Notification date: None Given
Land Disposal: Receives offsite waste:
Incinerator:
Storer: Treatment facility:
Transporter:
Contact Name: CHRISTOPHER BLAICH Source Type: Emergency Contact Phone: 914−925−6219 Contact Info Date: 01/28/2011
Contact Name: CHRISTOPHER BLAICH Source Type: Implementer Contact Phone: 914−925−6219 Contact Info Date: 02/27/2011

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
More than one waste code was reported for the following waste amount:		150	KILOGRAMS	GENERATED	2011		
D008	Lead						
B007	Other PCB Wastes including contaminated soil, solids, sludges, clothing, etc.						

Map Identification Number 269 **NYSDEC Name:** **NYCDOT BRIDGE BIN 2241409** **Facility Id: NYR000100149**
NYSDEC Address: GRAND CONCOURSE BRG OVER METRO NORTH RR HUDSON LINE BRONX, NY 10451 TT−Id: 740A−0004−005
EPA (RCRA) Name: NYCDOT BRIDGE BIN 2241409
EPA (RCRA) Address: GRAND CONCOURSE BRG OVER METRO NORTH RR HUDSON LINE BRONX, NY 10451

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (3)
Approximate distance from property: 571 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: GRAND CONCOURSE OVER
Revised zip code: NO CHANGE

US EPA RCRA Type: SMALL QUANTITY GENERATOR
Notification date: 08/27/2001
Land Disposal: Receives offsite waste:
Incinerator:
Storer: Treatment facility:
Transporter:
Contact Name: ALEX BEZCHASTNOV Source Type: Implementer Contact Phone: 212−788−2091 Contact Info Date: 08/05/2007
Contact Name: ALEX BEZCHASTNOV Source Type: Notification Contact Phone: 212−788−2091 Contact Info Date: 08/06/2007

Historically listed as the following USEPA RCRA Generator Size(s) as well:
LARGE QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	YEAR
NONE	Site reported by US EPA. No hazardous waste activity reported by NYS.						

Map Identification Number 270 **NYSDEC Name:** **MTA NYCT − JEROME LINE 4 TUNNEL TRACK 1** **Facility Id: NYR000150847**

NYSDEC Address: GRAND CONCOURSE BLVD BETWEEN E 151ST & E 153RD STS BRONX, NY 10456 TT−Id: 740A−0063−145

EPA (RCRA) Name: MTA NYCT − JEROME LINE 4 TUNNEL TRACK 1
EPA (RCRA) Address: GRAND CONCOURSE BLVD BETWEEN E 151ST & E 153RD STS BRONX, NY 10456

MAP LOCATION INFORMATION
Site location mapped by: MANUAL MAPPING (4)
Approximate distance from property: 571 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: GRAND CONCOURSE BLVD
Revised zip code: 10451

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Notification date: 08/17/2007
Land Disposal: Receives offsite waste:
Incinerator:
Storer: Treatment facility:
Transporter:
Contact Name: LUMINITA MARINESCU Source Type: Implementer Contact Phone: 646−252−3506 Contact Info Date: 05/10/2016
Contact Name: LUMINITA MARINESCU Source Type: Notification Contact Phone: 646−252−3506 Contact Info Date: 08/17/2007

Historically listed as the following USEPA RCRA Generator Size(s) as well:
SMALL QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	YEAR
NONE	Site reported by US EPA. No hazardous waste activity reported by NYS.						

Map Identification Number 271 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004221099**

NYSDEC Address: E 149 ST & GERARD AVE BRONX, NY TT−Id: 740A−0075−685
MH 4506
EPA (RCRA) Name: CON EDISON MANHOLE 4506
EPA (RCRA) Address: E 149TH ST & GERARD AVE BRONX, NY 10451

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 571 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: E 149TH ST / GERARD AVE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Land Disposal: Receives offsite waste:
Storer: Treatment facility:

Notification date: None Given
Incinerator:
Transporter:

Contact Name: DOMINIC BIZZARO Source Type: Emergency Contact Phone: 914−925−6219 Contact Info Date: 12/03/2010
Contact Name: DOMINIC BIZZARO Source Type: Implementer Contact Phone: 914−925−6219 Contact Info Date: 01/02/2011

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	300	POUNDS	GENERATED	2010		

Map Identification Number 272 **NYSDEC Name:** **BJS WHOLESALE CLUB BJ0176** **Facility Id: NYR000164954**

NYSDEC Address: 610 EXTERIOR ST BRONX, NY 10451 TT−Id: 740A−0065−607
EPA (RCRA) Name: BJS WHOLESALE CLUB #176
EPA (RCRA) Address: 610 EXTERIOR ST BRONX, NY 10451

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (4)
Approximate distance from property: 577 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA Type: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Land Disposal: Receives offsite waste:
Storer: Treatment facility:

Notification date: 05/06/2009
Incinerator:
Transporter:

Contact Name: ALEK SHAPIRO Source Type: Notification Contact Phone: 718−292−5410 Contact Info Date: 12/26/2012

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D002	Solid waste that exhibits the characteristic of corrosivity	18	POUNDS	GENERATED	2017	38	2010
P075	Nicotine, & salts	2	POUNDS	GENERATED	2017		
More than one waste code was reported for the following waste amount:		155	POUNDS	GENERATED	2017		
D001	Solid waste that exhibits the characteristic of ignitability						
D005	Barium						
D007	Chromium						
D010	Selenium						
D011	Silver						
D001	Solid waste that exhibits the characteristic of ignitability	4	POUNDS	GENERATED	2015		
More than one waste code was reported for the following waste amount:		59	POUNDS	GENERATED	2014		
U279	Carbaryl (OR) 1−Naphthalenol, methylcarbamate						
D004	Arsenic						
D005	Barium						
D007	Chromium						
D010	Selenium						
D016	2,4−D, (2,4−Dichlorophenoxyacetic acid).						
More than one waste code was reported for the following waste amount:		8	POUNDS	GENERATED	2013		
U002	2−Propanone (I)						
U112	Acetic acid ethyl ester (I)						
U154	Methanol (I)						
U220	Toluene						
D018	BENZENE						
D001	Solid waste that exhibits the characteristic of ignitability						
D009	Mercury	3	POUNDS	GENERATED	2010		

Map Identification Number 273 **NYSDEC Name:** **AMOCO SERVICE STATION** **Facility Id: NY0001492875**

NYSDEC Address: 557 GRAND CONCOURSE BRONX, NY 10451 TT−Id: 740A−0004−006
EPA (RCRA) Name: AMOCO SERVICE STATION
EPA (RCRA) Address: 557 GRAND CONCOURSE BRONX, NY 10451

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 581 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Land Disposal: Receives offsite waste:
Storer: Treatment facility:

Notification date: 11/20/1997
Incinerator:
Transporter:

Contact Name: CARY WOLF Source Type: Implementer Contact Phone: 516−997−9300 Contact Info Date: 01/01/2007
Contact Name: CARY WOLF Source Type: Notification Contact Phone: 516−997−9300 Contact Info Date: 11/20/1997

Historically listed as the following USEPA RCRA Generator Size(s) as well:
SMALL QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D001	Solid waste that exhibits the characteristic of ignitability	250	POUNDS	GENERATED	1998		

Map Identification Number 274 **NYSDEC Name:** **557 GRAND CONCOURSE** **Facility Id: NYU005000450**

NYSDEC Address: 557 GRAND CONCOURCE NEW YORK, NY 10451 TT−Id: 740A−0004−028
EPA (RCRA) Name: 557 GRAND CONCOURSE
EPA (RCRA) Address: 557 GRAND CONCOURCE NEW YORK, NY 10451

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 581 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: 557 GRAND CONCOURSE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Land Disposal: Receives offsite waste:
Storer: Treatment facility:

Notification date: 03/11/1996
Incinerator:
Transporter:

Contact Name: JOSE PEREZ Source Type: Implementer Contact Phone: 718−402−5605 Contact Info Date: 01/01/2007
Contact Name: JOSE PEREZ Source Type: Notification Contact Phone: 718−402−5605 Contact Info Date: 03/11/1996

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
NONE	Site reported by US EPA. No hazardous waste activity reported by NYS.						

Map Identification Number 275 **NYSDEC Name:** **NYC BRONX HOUSE OF DETENTION FOR MEN** **Facility Id: NYD981487747**

NYSDEC Address: 653 RIVER AVENUE BRONX, NY 10451 TT−Id: 740A−0001−778
EPA (RCRA) Name: NYCDC − BRONX DETENTION FOR MEN
EPA (RCRA) Address: 653 RIVER AVE BRONX, NY 10458

MAP LOCATION INFORMATION
Site location mapped by:
Approximate distance from property: 590 feet to the NW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Notification date: 05/19/1999
Land Disposal: Receives offsite waste:
Incinerator:
Storer: Treatment facility:
Transporter:
Contact Name: ALVERO TERRY Source Type: Implementer Contact Phone: 718−391−1095 Contact Info Date: 01/01/2007
Contact Name: ALVERO TERRY Source Type: Notification Contact Phone: 718−391−1095 Contact Info Date: 05/19/1999

Historically listed as the following USEPA RCRA Generator Size(s) as well:
LARGE QUANTITY GENERATOR
SMALL QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D001	Solid waste that exhibits the characteristic of ignitability	80	GALLONS	GENERATED	1997		
F003	Spent non−halogenated solvents	50	GALLONS	GENERATED	1997		

Map Identification Number 276 **NYSDEC Name:** **CON EDISON** **Facility Id: NYP004657730**
NYSDEC Address: 161 E 150 ST F/O BRONX, NY 10451 TT−Id: 740A−0115−509

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (5)
Approximate distance from property: 599 feet to the SE

ADDRESS CHANGE INFORMATION
Revised street: 161 E 150TH ST
Revised zip code: NO CHANGE

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	3000	POUNDS	GENERATED	2014		

Map Identification Number 277 **NYSDEC Name:** **CON EDISON** **Facility Id: NYP004585691**
NYSDEC Address: EAST 149 ST & RIVERA AVE BRONX, NY 10452 TT−Id: 740A−0123−993

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 637 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: E 149TH ST / RIVER AVE
Revised zip code: 10451

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	5000	POUNDS	GENERATED	2014		

Map Identification Number 278 **NYSDEC Name:** **CON EDISON** **Facility Id: NYP004715868**
NYSDEC Address: W/S E 149 ST 100 N/O E RIVER ST BRONX, NY 10474 TT−Id: 740A−0134−247
MH26142

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 637 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: E 149TH ST / RIVER AVE
Revised zip code: NO CHANGE

US EPA RCRA (Resource Conservation and Recovery Act) information not reported; Site information reported by NYS DEC.

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	100	POUNDS	GENERATED	2015		

Map Identification Number 279 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004074407**
NYSDEC Address: MH3895−150TH ST & EXTERIOR ST BRONX, NY TT−Id: 740A−0003−763
EPA (RCRA) Name: CON EDISION − MH 3895
EPA (RCRA) Address: EXTERIOR ST. & E. 15TH ST. EXT NEW YORK, NY 10003

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 638 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: E 150TH ST / EXTERIOR ST
Revised zip code: 10401

Special Note(s): The New York State Department of Environmental Conservation and the U. S. Environmental Protection Agency have reported different locations for this hazardous waste identification number. Available information for both locations is summarized below.

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Notification date: None Given
Land Disposal: Receives offsite waste:
Incinerator:
Storer: Treatment facility:
Transporter:
Contact Name: ANTHONY DRUMMINGS Source Type: Implementer Contact Phone: 212−460−3770 Contact Info Date: 06/02/2002
Contact Name: ANTHONY DRUMMINGS Source Type: Annual/Biennial Report Contact Phone: 212−460−3770 Contact Info Date: 05/31/2002

Historically listed as the following USEPA RCRA Generator Size(s) as well:
LARGE QUANTITY GENERATOR

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	1013	GALLONS	GENERATED	2001		
D008	Lead	2	CUBIC YDS	GENERATED	2001		

Map Identification Number 280 **NYSDEC Name:** **CONSOLIDATED EDISON** **Facility Id: NYP004146965**

NYSDEC Address: E 150TH ST & EXTERIOR ST BRONX, NY TT−Id: 740A−0063−218
EPA (RCRA) Name: CON EDISON
EPA (RCRA) Address: E 150 ST & EXTERIOR ST BRONX, NY 10459

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 638 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: E 150TH ST / EXTERIOR ST
Revised zip code: NO CHANGE

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Notification date: None Given
Land Disposal: Receives offsite waste:
Incinerator:
Storer: Treatment facility:
Transporter:
Contact Name: STEVEN MARTIS Source Type: Emergency Contact Phone: 212−580−8383 Contact Info Date: 01/09/2007
Contact Name: STEVEN MARTIS Source Type: Implementer Contact Phone: 212−580−8383 Contact Info Date: 01/11/2007

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D018	BENZENE	520	GALLONS	GENERATED	2006		
D018	BENZENE	50	POUNDS	GENERATED	2006		

Map Identification Number 281 **NYSDEC Name:** **CON EDISON** **Facility Id: NYP004294948**

NYSDEC Address: CROMWELL AVE E/S EXTERIOR ST MH 27848 BRONX, NY 10451 TT−Id: 740A−0086−287

EPA (RCRA) Name: CON EDISON MANHOLE: 27848

EPA (RCRA) Address: CROMWELL AVE N OF 151ST ST BRONX, NY 10451

MAP LOCATION INFORMATION
Site location mapped by: ADDRESS MATCHING
Approximate distance from property: 638 feet to the W

ADDRESS CHANGE INFORMATION
Revised street: CROMWELL AVE / EXTERIOR ST
Revised zip code: NO CHANGE

Special Note(s): The New York State Department of Environmental Conservation and the U. S. Environmental Protection Agency have reported different locations for this hazardous waste identification number. Available information for both locations is summarized below.

US EPA RCRA Type: GENERATOR TYPE NOT GIVEN
Notification date: None Given
Land Disposal:
Receives offsite waste:
Incinerator:
Storer:
Treatment facility:
Transporter:
Contact Name: GINO FRABASILE Source Type: Emergency Contact Phone: 914−925−6219 Contact Info Date: 03/20/2013
Contact Name: GINO FRABASILE Source Type: Implementer Contact Phone: 914−925−6219 Contact Info Date: 04/20/2013

NYS DEC Manifested Waste Summary:
Waste Codes, Waste Units, and Transaction Types are only shown for the most recently reported year.

WASTE CODE	WASTE DESCRIPTION	WASTE AMOUNT	WASTE UNITS	TRANSACTION TYPE	YEAR	HISTORIC MAXIMUM AMOUNT	HISTORIC MAXIMUM YEAR
D008	Lead	1000	POUNDS	GENERATED	2013		

NO CHEMICAL STORAGE FACILITIES IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS

NO HISTORIC UTILITY SITES IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS

NO HAZARDOUS SUBSTANCE WASTE DISPOSAL SITES IDENTIFIED WITHIN 1/2 MILE SEARCH RADIUS

NO TOXIC AIR, LAND AND WATER RELEASES IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS

NO WASTEWATER DISCHARGES IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS

AIR DISCHARGE FACILITIES IDENTIFIED WITHIN THE 1/8 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 282 **P.O. GARRAGE** **Facility Id: 3600500116** **State−county CDS Id: 3600500116**

580 GERARD AVE. BRONX, NY 10451 State−county NED id:
EPA (FINDS) Name: P.O. GARRAGE TT−ID: 900A−0000−735
EPA (FINDS) Address: 580 GERARD AVE. BRONX 10451

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 0 feet

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

CDS−ID: 00116 NED−ID: None Given EPA−ID: NYD982727885 FINDS−ID: NYD982727885
Plant Phone #1: None Given Plant Phone #2: None Given
Operating Status: OPERATING
EPA Classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
State Classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
EPA Plant Compliance Status:
State Plant Compliance Status: IN COMPLIANCE − INSPECTION

AIR PROGRAM INFORMATION
Regulatory Air Program: SIP SOURCE Program Status: OPERATING

POLLUTANT INFORMATION
Pollutant: VOLATILE ORGANIC COMPOUNDS
State Pollutant Compliance for this pollutant: IN COMPLIANCE − INSPECTION

Map Identification Number 283 **MOBIL** **Facility Id: 3600500093** **State−county CDS Id: 3600500093**

611 GRAND CON. BRONX, NY 10451 State−county NED id:
EPA (FINDS) Name: MOBIL TT−ID: 900A−0000−745
EPA (FINDS) Address: 611 GRAND CON. BRONX 10451

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 466 feet to the E

ADDRESS CHANGE INFORMATION
Revised street: 611 GRAND CONCOURSE
Revised zip code: NO CHANGE

CDS−ID: 00093 NED−ID: None Given EPA−ID: NYD986955656 FINDS−ID: NYD986955656
Plant Phone #1: None Given Plant Phone #2: None Given
Operating Status: OPERATING
EPA Classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
State Classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
EPA Plant Compliance Status:
State Plant Compliance Status: IN COMPLIANCE − INSPECTION

AIR PROGRAM INFORMATION
Regulatory Air Program: SIP SOURCE Program Status: OPERATING

POLLUTANT INFORMATION
Pollutant: VOLATILE ORGANIC COMPOUNDS
State Pollutant Compliance for this pollutant: IN COMPLIANCE − INSPECTION

Map Identification Number 284 **MOBIL** **Facility Id: 3600500294** **State−county CDS Id: 3600500294**
99 E. 149TH ST. BRONX, NY 10451 State−county NED id:
EPA (FINDS) Name: MOBIL TT−ID: 900A−0000−742
EPA (FINDS) Address: 99 E. 149TH ST. BRONX 10451

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 473 feet to the SW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

CDS−ID: 00294 NED−ID: None Given EPA−ID: NYD986987899 FINDS−ID: NYD986987899
Plant Phone #1: None Given Plant Phone #2: None Given
Operating Status: OPERATING
EPA Classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
State Classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
EPA Plant Compliance Status:
State Plant Compliance Status: IN COMPLIANCE − INSPECTION

AIR PROGRAM INFORMATION
Regulatory Air Program: SIP SOURCE Program Status: OPERATING

POLLUTANT INFORMATION
Pollutant: VOLATILE ORGANIC COMPOUNDS
State Pollutant Compliance for this pollutant: IN COMPLIANCE − INSPECTION

Map Identification Number 285 **AMOCO** **Facility Id: 3600500235** **State−county CDS Id: 3600500235**
557 GRAND CONCOURSE BRONX, NY 10451 State−county NED id:
EPA (FINDS) Name: AMOCO TT−ID: 900A−0000−741
EPA (FINDS) Address: 557 GRAND CONCOURSE BRONX 10451

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 578 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

CDS−ID: 00235 NED−ID: None Given EPA−ID: NY0001492875 FINDS−ID: NY0001492875
Plant Phone #1: None Given Plant Phone #2: None Given
Operating Status: OPERATING
EPA Classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
State Classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
EPA Plant Compliance Status:
State Plant Compliance Status: IN COMPLIANCE − INSPECTION

AIR PROGRAM INFORMATION
Regulatory Air Program: SIP SOURCE Program Status: OPERATING

POLLUTANT INFORMATION
Pollutant: VOLATILE ORGANIC COMPOUNDS
State Pollutant Compliance for this pollutant: IN COMPLIANCE − INSPECTION

Map Identification Number 286 **NYS EMERGENCY ELECTRICAL PLANT** **Facility Id: 3600500300** **State−county CDS Id: 3600500300**
653 RIVER AVE BRONX, NY 10451 State−county NED id:
TT−ID: 900A−0000−234

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING − LARGE SITE
Approximate distance from property: 594 feet to the NNW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

CDS−ID: 00300 NED−ID: None Given EPA−ID: None Given FINDS−ID: None Given
Plant Phone #1: None Given Plant Phone #2: None Given
Operating Status: OPERATING
EPA Classification:
State Classification: CLASS IS UNKNOWN
EPA Plant Compliance Status:
State Plant Compliance Status: UNKNOWN COMPLIANCE STATUS

AIR PROGRAM INFORMATION
Regulatory Air Program: SIP SOURCE Program Status: OPERATING

POLLUTANT INFORMATION
Pollutant: TOTAL PARTICULATE MATTER
State Pollutant Compliance for this pollutant: UNKNOWN COMPLIANCE STATUS

CIVIL & ADMINISTRATIVE ENFORCEMENT DOCKET FACILITIES IDENTIFIED WITHIN 1/8 MILE SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 287 **N Y C DEPT OF SANITATION** **Facility Id: NYD981487069**
125 E 149TH ST BRONX, NY 10451 TT−Id: 920A−0000−076

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 368 feet to the SSW

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

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CIVIL ENFORCEMENT DOCKET CASE INFORMATION
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DOCKET CASE #	COURT DOCKET NUMBER	DATE FILED	DATE CONCLUDED	JUDICIAL DISTRICT	CASE NAME
02−1991−0160	93−436	01−22−1993	04−22−1993	SDNY	NYC, REFUELING FACILITIES

DEFENDANT NAME(S): NEW YORK CITY

LAW(S) VIOLATED
Clean Air Act − Section 110

DISPOSITION OF CASE
Consent instrument with penalty

FEDERAL PENALTY ASSESSED
200000

COST RECOVERY AWARDED

TYPE OF VIOLATION(S)
National Emission Standard for Hazardous Air Pollutant
Air Emissions Not Otherwise Specified
State Implementation Plan

TYPE OF POLLUTANT(S)
FUEL VAPOR
Volatile organic compound

Map Identification Number 288 **AMOCO** **Facility Id: NY0001492875**
557 GRAND CONCOURSE BRONX, NY 10451 TT−Id: 920A−0000−057

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (1)
Approximate distance from property: 576 feet to the SSE

ADDRESS CHANGE INFORMATION
Revised street: NO CHANGE
Revised zip code: NO CHANGE

==========
CIVIL ENFORCEMENT DOCKET CASE INFORMATION
==========

DOCKET CASE #	COURT DOCKET NUMBER	DATE FILED	DATE CONCLUDED	JUDICIAL DISTRICT	CASE NAME
02−1997−0297	CV−98−7406	12−02−1998	− −	EDNY	ROUTE 109 SERVICE STATIONS INC

DEFENDANT NAME(S): 1579 ATLANTIC AVENUE CORP
3072 CROPSEY AVENUE CORP
633 NEW YORK AVENUE CORPORATION
BILL WOLF PETROLEUM CORP
BROADWAY−129 STREET GASOLINE CORP
BRUCKNER−BROOK GASOLINE CORPORATION
INTREPID MAINTENANCE CORP
ROUTE 109 SERVICE STATION CORPORATION
STORAGE MAINTENANCE CORP
WILLIAMSBRIDGE ROAD REALTY CORP
WOLF, CARY

LAW(S) VIOLATED
Resource Conservation & Recovery Act − Section LUST

DISPOSITION OF CASE FEDERAL PENALTY ASSESSED COST RECOVERY AWARDED

TYPE OF VIOLATION(S)
UST Requirements, Other Than LDAR
Other

TYPE OF POLLUTANT(S)
Type of pollutant(s) not listed

NYC ENVIRONMENTAL QUALITY REVIEW REQUIREMENTS − "E" DESIGNATION SITES IDENTIFIED WITHIN 250 FT SEARCH RADIUS

PLEASE NOTE: * Compass directions can vary substantially for sites located very close to the subject property address.

Map Identification Number 289 **BLOCK: 2353 LOT: 1** **TT−Id: 820A−0008−787**
580 GERARD AVENUE

MAP LOCATION INFORMATION
Site location mapped by: PARCEL MAPPING (3)
Approximate distance from property: 0 feet

ADDRESS CHANGE INFORMATION
Revised street: No Change
Revised zip code: No Change

BBL #	E No.	CEQR No.	ULURP No.	NYC Zoning Maps	Effective Date	Lot Remediation Date	Description
2−02353−0001	E−292	11DCP143X	130064ZMX 130065ZRX	6a	05/22/2013		Hazardous Materials Phase I and Phase II Testing Protocol Window Wall Attenuation & Alternate Ventilation

U.S. EPA EMERGENCY RESPONSE NOTIFICATION SYSTEM (ERNS) SPILLS
AT THE LOCATION OR POTENTIALLY AT THE LOCATION OF
580-610 Gerard Avenue
Bronx, NY 10451

* Any ERNS Spills listed below are NOT mapped in this report *

ONSITE ERNS (A count of these spills can be found in the distance interval table):
THIS SITE IS NOT FOUND IN THE ERNS DATABASE

POTENTIALLY ONSITE ERNS:

****

Spill Number (ID): 649330 Spill Date: 10/26/1999

Location: GERARD AVE AND EAST 150TH STREET
Spill City: NEW YORK NY

Material Spilled	Quantity Spilled	Units	Pounds	Quantity Released in Water	Units	Casno
OIL, MISC: TRANSFORMER	130.00	GAL	962.00	130.00	GAL	80741174
POLYCHLORINATED BIPHENYLS	0.00	UNK	0.00	0.00	UNK	84208466

Potentially Responsible Party (Discharger): CON EDISON
Discharger Address: 4 IRVING PLACE
NEW YORK NY 10003
Dun and Bradstreet Number: Organization Type: PUBLIC UTLITY

Medium(s) Affected:
Air: F Land: F Water: T Groundwater: F Contained within Fixed Facility: F Other: F
Waterway Affected: SEWER > UNKNOWN BY CALLER
Damages Incurred: F Estimated Cost of Property Damage: $0.00

Cause(s):
Transportation Accident: F Equipment Failure: T
Operator Error: F Natural Phenomenon: F
Dumping: F Other Cause: F
Unknown: F
Cause of the incident: Source of Release: PLANT
Type of Transportation Involved: FIXED FACILITY

Action: PCB CONCENTRATION: 20 PPM / THE MATERIAL ENTERED A SEWER / A CREW IS ON SITE CONDUCTING THE CLEAN UP

Description: UNDERGROUND VAULT TRANSFORMER UNDERGROUND VAULT TRANSFORMER / THE MATERIAL SPILLED DUE TO A LEAK IN THE TRANSFORMER

Miscellaneous:

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Unmappable facilities for 'Bronx' County

NPL/CERCLIS/NYSDEC Inactive Haz. Waste or Reg. Qual. Sites

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
203108	CE - E. 138TH ST. - BRONX WORKS	EAST 138TH - EAST 140TH STS.	BRONX	10454

Solid Waste Facilities

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
03C01	BRONX FRONTIER COMPOSTING			UNKNOWN
03D05	SOUTH BRONX MARINE DEMO			UNKNOWN
03E01	OBRIEN ENERGY METANE REC			UNKNOWN
03T03				UNKNOWN
03T04	REALTY TRS. STA.			UNKNOWN
03T06	LEE-BIN T.S.			UNKNOWN
03T10	A.L.A LAND DEVELOP TRS.ST			UNKNOWN
03T11	BEM CONTRACTING TRANS STA			UNKNOWN
03T30	CRESTWOOD CARTING CORP.			UNKNOWN
03T35	UNIVERSAL DEMO RECYCLING			UNKNOWN
03T56	FIVE AWAY CORP.			UNKNOWN
03V40	ECCO-SUBURBAN CARTING			UNKNOWN
03W78	FELIX RECYCLING FILL MATE			UNKNOWN
		141ST STREET	BRONX	UNKNOWN
		BOTTNER AVE.	BRONX	UNKNOWN
		21B GARAGE	BRONX	UNKNOWN
		FRANZ SIEGEL PARK	BRONX	10451
		BRONX TERMINAL MARKET	BRONX	10451
NY00000000620	LEE-BIN T.S.	UNKNOWN	UNKNOWN	UNKNOWN
NY00000000623	CRESTWOOD CARTING CORP.	UNKNOWN	UNKNOWN	UNKNOWN
NY00000000625	UNIVERSAL DEMO RECYCLING	UNKNOWN	UNKNOWN	UNKNOWN
NY00000000626	AFC CARTING	UNKNOWN	UNKNOWN	UNKNOWN

Hazardous Spills - MISC. SPILL CAUSES - Active

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
1802570	PATTERSON HOUSING DEV	320 MORRIS AVE	BRONX	UNKNOWN
1709466	PAVEMENT	772 H WATER ROAD	BRONX	UNKNOWN

Hazardous Spills - TANK FAILURES - Closed

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
0705989	BRONX TERMINAL MARKET	UNDER DEEGAN EXP	BRONX	UNKNOWN
0003047	PARKING LOT	AUSTIN RD/DYER AVE	BRONX	UNKNOWN
8605668	E 153 ST. MANHATTAN/ RUPT	E 153 ST.	NEW YORK CITY	UNKNOWN

Hazardous Spills - TANK TEST FAILURES - Closed

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
9500889	1419 MORNS AVENUE	1419 MORNS AVENUE	BRONX	UNKNOWN
8809318	CLOSED-LACKOF RECENT INFO	(NO STREET INFO)	BRONX	UNKNOWN
8802622	85-09 1ST AVENUE	85-09 1ST AVENUE	NEW YORK CITY	UNKNOWN

Hazardous Spills - UNKNOWN CAUSE OR OTHER CAUSES - Closed

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
8606271	RAW SEWAGE ITEM #932			UNKNOWN
9913978	BRONX EXPRESSWAY	SERVICE RD	BRONX	UNKNOWN
9913861	FM 233RD ST SOUTH TO	149TH ST ALONG RR TRACKS	BRONX	UNKNOWN
9905027	MANHOLE 138 ON BAINBRIDGE	AVE 510 FT OF N CORNER	BRONX	UNKNOWN
9812912	SERVICE BOX 5550	ELMONT	BRONX	UNKNOWN
9807973	VAULT 2959	CONCOURSE VILLAGE EAST	BRONX	10451
9807971	MANHOLE 26362	CONCOUSE VILLAGE EAST	BRONX	10451

9803125	ROADWAY	E 156TH ST	BRONX	UNKNOWN
9802285	MANHOLE #26954	SERVICE RD/TREEMONT AVE	BRONX	UNKNOWN
9713244	DEPT SANITAION	NEAR PLAZA MATERIALS	BRONX	UNKNOWN
9712848	NEAR CITY BUS PARKING	I95 RAMP TO TRIBORO BRDG	BRONX	UNKNOWN
9703953	725 EXTERIOR ST	725 EXTERIOR ST	BRONX	10451
9611109	CROTON AQUADUCT	CROTON AQUADUCT	BRONX	UNKNOWN
9603961	HUNTS POINT	REGULATOR	BRONX	UNKNOWN
9513119	260 GRASS AVE	260 GRASS AVE	BRONX	UNKNOWN
9506397	UNK	UNK	BRONX	UNKNOWN
9502018	CROSS BX EPWY & ROSA AVE	CROSS BX EPWY / ROAS AVE	BRONX	UNKNOWN
9416011	APARTMENT BLDG.	USS MORRISON AVE. B4	BRONX	UNKNOWN
9415281	UNK	UNKNOWN	BRONX	UNKNOWN
9314159	IN HUDSON RIVER-HARLEM RI	IN HUDSON RIVER-HARLEM RI	BRONX	UNKNOWN
9311201	CORNER OF E 138TH ST.	CORNER OF E 138TH ST.	BRONX	UNKNOWN
9303981	1500 PARK AVENUE	1500 PARK AVENUE	BRONX	UNKNOWN
8603470	FISH KILL	3 BLKS N. OF HARLEM RIVER	BRONX	UNKNOWN
8504703	NEW WINDSOR BRONX	NEW WINDSOR BRONX	BRONX	UNKNOWN
8503365	BRONX	BRONX	BRONX	UNKNOWN
8503141	BRONX	BRONX	BRONX	UNKNOWN
8100079	SPILL NUMBER 8100079		BRONX	UNKNOWN
1708298	IN THE AIR	1780 WATSON AVE	BRONX	UNKNOWN
1706859	CONCRETE	1910 BARTOW AVE	BRONX	UNKNOWN
1706042	CONCRETE PLANT PARK	UNKNOWN ST	BRONX	UNKNOWN
1609615	STREET	EAST BAY AVE	BRONX	UNKNOWN
1605633	BQE @ I-95 N	BQE @ I-95	BRONX	UNKNOWN
1506117	MAN HOLE 1813	639 BROADWAY	BRONX	UNKNOWN
1406880	IFO - VAULT #2114	1451 WEST AVE	BRONX	UNKNOWN
1404642	ROADWAY	UNIVERSITY AVENUE AND 155TH STREET	BRONX	10451
1107765	CONED	9 ESTLANDE AVE	BRONX	UNKNOWN
1102870	BRONX RIVER	NEAR VIELE AVE ACROSS OUTFLOW	BRONX	UNKNOWN
1009032	220859; RYAN AVENUE	RYAN AVENUE	BRONX	UNKNOWN
1009011	220721; DEEGAN SERVICE ROAD	DEEGAN SERVICE ROAD	BRONX	UNKNOWN
1008932	219784; BRUCKNER BLVD	BRUCKNER BLVD	BRONX	UNKNOWN
1002792	BRONX RIVER	IN THE ESTUARY	BRONX	UNKNOWN
1000484	IN DIRT	EAST 155TH/BROOKLYN BLVD	BRONX	UNKNOWN
0908432	MANHOLE 156	SOUTHBOUND MAJOR DEEGAN RDMANHOLE	BRONX	UNKNOWN
0811775	PIER 2 BRONX TERMINAL MARKET	725 EXTERIOR ST	BRONX	UNKNOWN
0709357	SOUTHBOUND	BRUCKNER EXPRESS #8A	BRONX	UNKNOWN
0708015	ON ROADWAY	NORTH ON 95	BRONX	UNKNOWN
0707726	ON HIGHWAY	MAJOR DEEGAN	BRONX	UNKNOWN
0606532	BRONX RIVER	BRONX RIVER FORREST	BRONX	UNKNOWN
0511299	ATAR PLACE	STADIUM AVE	BRONX	UNKNOWN
0508362	BUILDING	1253 STELEY AVE	BRONX	UNKNOWN
0507300	EAST CHESTER BAY	600 CLANENCE AVE	BRONX	UNKNOWN
0410879	METRO NORTH HUDSON LINE	MORRIS HGTS	BRONX	UNKNOWN
0408667	MANHOLE 4942	SOUTHEAST GRAND COURSE AN	BRONX	UNKNOWN
0407227	EAST RIVER (ROCKS/WATER)	SUNSET TRAIL/EXPWY	BRONX	UNKNOWN
0404879	MANHOLE#12	EAST 140 ST	BRONX	UNKNOWN
0401567	900 BRUSH AVE	900 BRUSH AVE	BRONX	UNKNOWN
0312348	EAST RIVER	EAST 148TH ST.& HUNTS POINT	BRONX	UNKNOWN
0306543	CONCOURSE VILLAGE	780 CONCOURSE VILLAGE	BRONX	10451
0208038	MANHOLE 183	EASTSIDE OF PARK AVE	BRONX	UNKNOWN
0203938	MANHOLE #26580	W WEBSTER AVE & 229TH ST	BRONX	UNKNOWN
0201341	BEHIND VICTORY FOOD SERV.	150-151ST ST	BRONX	UNKNOWN
0105833	OPEN LOT FORMER METRO NO	3001 CONCOURSE VILLAGE EA	BRONX	10451
0100318	HARLEM RIVER	NEAR HAMILTON AVE BRIDGE	BRONX	UNKNOWN
0010154	MANHOLE 22084	EAST 149TH ST	BRONX	UNKNOWN
0009192	MANHOLE #20755	OPP 371 PARK AVE	BRONX	UNKNOWN
0007339	GRAND CONCOURSE	GRAND CONCOURSE	BRONX	UNKNOWN
0004934	VAULT 2052	THERIOT AVE/ASTORIA AVE	BRONX	UNKNOWN

0209904	VARIOUS DEP −BWSO SITES	MISC.	BRONX/QUEENS/MANHATTAN	UNKNOWN
9814860	OLD CERTIFIED CONC. PLANT DCAS −DDC	BET 116TH & 122TH ST	MANHATTAN	UNKNOWN
9501771	RALPH RANGEL HOUSES −NYCHA	159−38 HARLEM RIVER DR.	MANHATTAN	10039
9413538	STERLING RD & UNION PK RD	STERLING RD & UNION PK RD	MANHATTAN	UNKNOWN
9412487	HARLEM RIVER	HARLEM RIVER	MANHATTAN	UNKNOWN
9402725	1040 E 149TH ST	1040 E 149TH ST	MANHATTAN	UNKNOWN
9313028	BET BROADWAY & RR BRIDGES	BET BROADWAY & RR BRIDGES	MANHATTAN	UNKNOWN
9307242	BRIDGE TO B‘WAY.EXPRESSWA	BRIDGE TO B‘WAY.EXPRESSWA	MANHATTAN	UNKNOWN
9304735	C 150TH STREET	C 150TH STREET	MANHATTAN	10039
9209836	HENRY HUDSON PKWY.	HENRY HUDSON PKWY.	MANHATTAN	UNKNOWN
9006769	RESTAURANT/UNK ADDRESS	UNKNOWN	MANHATTAN	UNKNOWN
8602036	MORE OIL COMES TO HARLEM	HARLEM RIVER DR N−BOUND	MANHATTAN	UNKNOWN
8504758	MANHATTAN	MANHATTAN	MANHATTAN	UNKNOWN
8503796	MANHATTAN	MANHATTAN	MANHATTAN	UNKNOWN
8503779	MANHATTAN	MANHATTAN	MANHATTAN	UNKNOWN
8503506	MANHATTAN	MANHATTAN	MANHATTAN	UNKNOWN
8503301	MANHATTAN	MANHATTAN	MANHATTAN	UNKNOWN
8503107	MANHATTAN	MANHATTAN	MANHATTAN	UNKNOWN
1009081	221371; FRED DOUGLASS B	FRED DOUGLASS B	MANHATTAN	UNKNOWN
1009058	221195; W 142 ST	W 142 ST	MANHATTAN	UNKNOWN
0604053	CITY COLLEGE	141 CONVENT AVE	MANHATTAN	UNKNOWN
0514853	FEEDER M52	W 49 SUBSTATION TO SPRAINBROOK SS	MANHATTAN	UNKNOWN
0405457	SERVICE BOX 60707	MADISON AVE	MANHATTAN	UNKNOWN
0309002	SPILL NUMBER 0309002	168TH − 145TH ST	MANHATTAN	UNKNOWN
0302630	V8770	5111−13 5TH AVE	MANHATTAN	UNKNOWN
9209502	UNK	UNK	NEW YORK	UNKNOWN
8907255	HERTZ RENT A CAR/MANH		NEW YORK	UNKNOWN
8604519	NEW YORK	NEW YORK	NEW YORK	UNKNOWN
8504836	WATER FRONT MANHATTAN	WATER FRONT MANHATTAN	NEW YORK	UNKNOWN
0914105	216104; 320 MORRIS AVENUE	320 MORRIS AVENUE	NEW YORK	10451
0705278	CAR LEAKING GAS	91−26 143 RD STREET	NEW YORK	UNKNOWN
0605752	RESIDENTIAL PROPERTY	RIVER ROAD	NEW YORK	UNKNOWN
9100193	135 & 145TH ST/MANH	135 & 145TH STREETS	NEW YORK CITY	UNKNOWN
8906597	PATTERSON −NYCHA	314 EAST 143RD STREET	NEW YORK CITY	10451
8607915	NEW YORK CITYF		NEW YORK CITY	UNKNOWN
8606984	UNKNOWN ADDRESS !	UNKNOWN	NEW YORK CITY	UNKNOWN
8603024	BRONX	BRONX	NEW YORK CITY	UNKNOWN
0402552	SPILL NUMBER 0402552	BROADWAY	NEW YORK CITY	UNKNOWN
9207036	BUOYS 22 & 24	BUOYS 22 & 24	NY	UNKNOWN
9112696	BARGE	BARGE	NYC	UNKNOWN
8601101	OIL COMES TO HARLEM	HARLEM RIVER	NYC	UNKNOWN
1606070	STREET	SOUTH BOUND BRUCKNER EXP WAY, EXIT 16 RI	NYC	UNKNOWN

Hazardous Spills − MISC. SPILL CAUSES − Closed

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
9912664	WEST CAMBRIDGE &	BAILEYS AV	BRONX	UNKNOWN
9911775	ON 181ST ST	IFO WEST GATE HOUSE	BRONX	UNKNOWN
9904705	MANHOLE 440X	EAST DSIDE OF BROADWAY	BRONX	UNKNOWN
9900490	SPILL NUMBER 9900490	4375 BRONX AVE	BRONX	UNKNOWN
9811600	SPILL NUMBER 9811600	3243 CHALL AVE	BRONX	UNKNOWN
9810375	SUNY MARITIME	HANUS STREET	BRONX	UNKNOWN
9809111	SPILL NUMBER 9809111	745 EXTERIOR ST	BRONX	10451
9712982	WEBSTER AVE COOLING PLANT	5250 WEBSTER AVE	BRONX	UNKNOWN
9711348	BAYSIDE FUEL	1975 FREDERICK AVE	BRONX	UNKNOWN
9710111	FEEDER LINE 99031	BROADWAY & CENTER RD	BRONX	UNKNOWN
9709352	METRO−NORTH RAILROAD	HUDSON LINE TR#4 MIL 7.5	BRONX	UNKNOWN
9614524	ROADWAY	THE MAJOR DEGAN EXPRESSWY	BRONX	10451
9512039	2934 VENTON AVE	2934 VENTON AVE	BRONX	UNKNOWN
9502949	2417 BALTIC AVENUE	2417 BALTIC AVENUE	BRONX	UNKNOWN
9416098	I−87 MAJOR DEEGAN EXPWY	1−87 MAJOR DEEGAN−BROADWA	BRONX	UNKNOWN

9414961	448 CUSLOGA AVENUE	448 CUSLOGA AVE	BRONX	UNKNOWN
9413036	504 W. 146TH ST	504 W. 146TH ST	BRONX	UNKNOWN
9412838	34 MT MORRIS PARKWAY	34 MT MORRIS PARKWAY	BRONX	UNKNOWN
9411935	1821 FAIRVIEW AVENUE	1821 FAIRVIEW AVENUE	BRONX	UNKNOWN
9409277	233 MAJOR DEGAN EXPWY	233 MAJOR DEEGAN EXPWY	BRONX	UNKNOWN
9404921	41 BENNET AVENUE	41 BENNETT AVENUE	BRONX	UNKNOWN
9402772	RIVER AVE	RIVER AVE	BRONX	UNKNOWN
9400698	1667 EAST 731 STREET	667 EAST 731 STREET	BRONX	UNKNOWN
9314217	3100 HEATHER AVE	3100 HEATHER AVE	BRONX	UNKNOWN
9312787	BET 2ND & 3RD - 46 ST.	BET 2ND & 3RD - 46ST.	BRONX	UNKNOWN
9312786	43 EAST 42TH ST.	43 EAST 42TH ST.	BRONX	UNKNOWN
9311525	I-90 S.B.	I-90 S.B.	BRONX	UNKNOWN
9308119	AMSTERDAM AVENUE	AMSTERDAM AVENUE	BRONX	UNKNOWN
9211051	SO. BRONX EXPSWY	SO. BRONX EXPSWY	BRONX	UNKNOWN
8604842	WOODHAVEN NEAR 233RD ST	WOODHAVEN NEAR 233RD ST	BRONX	UNKNOWN
8100533	NONE RESPONSIBLE	PARKDALE HOSPITAL	BRONX	UNKNOWN
1802639	STREET	320 MORRIS AVE	BRONX	UNKNOWN
1801702	GUN HILL BUS DEPOT	1910 BARTOW AVE	BRONX	UNKNOWN
1800880	SUMP	1910 BARTOW AVE	BRONX	UNKNOWN
1711011	AT INTERSECTION	WESTCHESTER AVE AND LOCUSON ST	BRONX	UNKNOWN
1710826	UPS LOSS TO I95	NORTHBOUND I95	BRONX	UNKNOWN
1706950	NYCDOC SPILL TO EAST RIVER	1 HALLECK STREET	BRONX	UNKNOWN
1706399	DRUM RUN	MAJOR DEEGAN	BRONX	UNKNOWN
1705610	JUST SOUTH OF EXIT 11	MAJOR DEAGAN EXPRESSWAY JUST SOUTH OF EX	BRONX	UNKNOWN
1705274	ROADWAY	ASHLOOP AND ALDER PLACE	BRONX	UNKNOWN
1701876	ON THE ROADWAY	146TH STREET/MALCOLM X BLVD	BRONX	10039
1700008	DRUM RUN	E144 STREET AT UNDER PASS	BRONX	UNKNOWN
1610962	WB NORTHEAST OF EXIT 51	BRUCKNER EXPRESSWAY	BRONX	UNKNOWN
1608579	ON THE ROADWAY	INTERSTATE 91 NB NEAR EXIT 4A	BRONX	UNKNOWN
1606065	POLE TOP TRANSFORMER	1016 EAST 128TH ST	BRONX	UNKNOWN
1601236	ROADWAY	PELHAM PARKWAY	BRONX	UNKNOWN
1600274	ROADWAY	NE EPRESSWAY/NE PARKWAY	BRONX	UNKNOWN
1508887	PAVEMENT 1215	PELHAM BUS STOP	BRONX	UNKNOWN
1508663	SB , BETWEEN EXITS 9 &8	MAJOR DEEGAN 1-87	BRONX	UNKNOWN
1507717	DRUM RUN	1465 BRONX RIVER AVE	BRONX	UNKNOWN
1504591	TOLL BOOTH	4260 MTA EXPRESSWAY	BRONX	UNKNOWN
1500314	RESIDENCE	560 BALCOM AVE	BRONX	UNKNOWN
1411054	I95 NORTH EXIT 2	I95 NB EXIT 2	BRONX	UNKNOWN
1409095	ROAD WAY	BURCKNER EXPRESS WAY	BRONX	UNKNOWN
1408443	HIGHWAY	BRUCKNER BLVD	BRONX	UNKNOWN
1405134	ROADWAY	NEW ENGLAND THRUWAY SOUTH BOUND	BRONX	UNKNOWN
1402901	COMMERICAL	4026 CARTEN AVE	BRONX	UNKNOWN
1400190	TRACKS ALONG RIGHT OF WAY	EAST 153RD ST/ 1/2 MI S OF YANKEE STADIU	BRONX	10451
1306379	DEPOT	200 7TH ST	BRONX	UNKNOWN
1303569	THE WHOLE STREET	GARRISON AVE	BRONX	UNKNOWN
1301779	POLE 104 4A	WEST SIDE OF OLMSTEAD AVE	BRONX	UNKNOWN
1301482	CONDO BUILDING	4455 BLUGRASS AVE	BRONX	UNKNOWN
1301478	APT BUILDING- OUT VENT LINE	4455 DOUGLAS AVE	BRONX	UNKNOWN
1301341	EXIT 8	I-95 NORTHBOUND	BRONX	UNKNOWN
1301330	I-87	MAJOR DEGAN EXPRESSWAY I87	BRONX	UNKNOWN
1216120	VAULT # 3116	KATONAH AVE	BRONX	UNKNOWN
1213562	ROADWAY SPILL	3455 HOLLERS AVE	BRONX	UNKNOWN
1212298	ROADWAY	HUDSON RIVER PARKWAY	BRONX	UNKNOWN
1210953	I-95 SADDLE TANK	I-95 @ EXIT 6A	BRONX	UNKNOWN
1209774	BRONX	ALL STREETS	BRONX	UNKNOWN
1204541	TRACTOR TRAILER FIRE ON BRONX RIVER EXPSWY	WEST BOUND BRONX RIVER PARKWAY	BRONX	UNKNOWN
1202366	PUNCTURED DIESEL TANK ON TRUCK	CROSS BRONX EXPRESSWAY	BRONX	UNKNOWN
1113586	TRACK 2 DIESEL SPILL TO BALLAST	8 MILE STRETCH OF RAILWAY	BRONX	UNKNOWN
1113453	ROADWAY	EAST BURNE SIDE AVE/WATTDEN AVE	BRONX	UNKNOWN
1112488	RAILROAD TRACKS	900 EDGEWOOD RD	BRONX	UNKNOWN

1112177	MANHOLE 23898	SOUTHSIDE OF EAST 188TH ST	BRONX	UNKNOWN
1110215	LMC CARWASH	139TH ST & GRAND CONCOURSE	BRONX	10451
1103808	IN THE STREET	DEEGAN EXPRESSWAY	BRONX	UNKNOWN
1008106	HELLGATE LINE	MILE POST 9.1/420 BRUCKNER BLVD	BRONX	UNKNOWN
1004717	FORDHAM PLAZA	FORDHAM PLAZA	BRONX	UNKNOWN
1004086	SUPERMARKET	CONNER ST AND GIVAN AVE	BRONX	UNKNOWN
1001747	ON THE TRACK	TRACK #2 MILEPOST 8.4 NEAR HELLGATE	BRONX	UNKNOWN
0911550	I-95 SOUTHBOUND	I-95 SOUTHBOUND	BRONX	UNKNOWN
0910845	DOT CONSTRUCTION SITE	MAJOR DEEGAN EXPRESSWAY	BRONX	UNKNOWN
0909773	ROAD	161ST BETWEEN JEROME AND 2ND AVE	BRONX	UNKNOWN
0909577	BASEMENT	1340 CROSE AVE	BRONX	UNKNOWN
0907208	CON EDISON	248 PUMP STATION AND 254 PUMP STREET	BRONX	UNKNOWN
0906616	ASTORIA AVE AND TAYLOR AVE	ASTORIA AVE AND TAYLOR AVE	BRONX	UNKNOWN
0904503	ROADWAY	1638 BRONXVILLE AVE	BRONX	UNKNOWN
0900411	EXTERIOR ST	EXTERIOR ST/EAST 153 ST	BRONX	10451
0813303	SERVICE BOX 2680	CROMWELL AVE	BRONX	UNKNOWN
0813302	SERVICE BOX SB2679	CROMWELL AVE	BRONX	UNKNOWN
0813301	CROMWELL AVE SERVICE BOX SB2678	CROMWELL AVE	BRONX	UNKNOWN
0812518	BEFORE EXIT 9 ON	INTERSTATE 295 NORTH	BRONX	UNKNOWN
0811431	APT BUILDING	775 CONCOURSE VILLAGE	BRONX	UNKNOWN
0811234	MILE MARKER IS POSSIBLY 2.6 THE CALLER WAS NOT SUR	87N OFF ROUTE 100 NORTH EXIT.	BRONX	UNKNOWN
0810208	PUMP STATION	200 AND 35ST PUMP STATION	BRONX	UNKNOWN
0806064	POLE T8	BAYCHESTER AVE	BRONX	UNKNOWN
0805524	POLE #2639	MORRIS PARK AVE	BRONX	UNKNOWN
0804107	DRUM RUN	BRUCKNER BLVD NB	BRONX	UNKNOWN
0801780	MH # 8312 HAS 12 OZ CABLE OIL	CEDAR STREET AT HARLEM RIVER	BRONX	UNKNOWN
0801779	MH # 8313 HAS EIGHT OZ OF CABLE OIL	CEDAR STREET AT HARLEM RIVER	BRONX	UNKNOWN
0801343	TRAFFIC ACCIDENT- 30 GAL DIESEL IN MH	EXTERIOR ST / MAJOR DEEGAN XWAY	BRONX	UNKNOWN
0800326	IN ROADWAY	180 1ST ST / ST NICHOLAS	BRONX	UNKNOWN
0712507	CONSTRUCTION SITE	725 EXTERIOR STREET	BRONX	UNKNOWN
0710690	STREET	NORTH ON ROSNECK BRIDGE	BRONX	UNKNOWN
0602583	APARTMENT BUILDING	5775 MARSHALL LEW AVE	BRONX	UNKNOWN
0510030	IFO TASK FORCE	STATE 87 EXIT - I 95 HWY	BRONX	UNKNOWN
0507724	VEHICLE # 1104	E. 149TH ST.	BRONX	UNKNOWN
0500605	TM #541	RUPPURT /151 STREET	BRONX	10451
0408170	ROADWAY	INT 95N, EXIT 8C	BRONX	UNKNOWN
0408155	HARLEM RIVER	BRONX REST PIER, PIER 8	BRONX	UNKNOWN
0404351	SPILL NUMBER 0404351	MORRIS AV & SOUNDVIEW	BRONX	UNKNOWN
0302981	NYS THRUWAY	N/B - MILE MARKER 2.0	BRONX	UNKNOWN
0205766	SPILL NUMBER 0205766	149TH ST	BRONX	UNKNOWN
0109044	NEW ENGLAND THRUWAY	I-95 EXPRESSWAY	BRONX	UNKNOWN
0108784	ROADWAY	MAJOR DEEGAN EXPRESSWAY	BRONX	UNKNOWN
0105112	TRANSFORMER VAULT	BROCKNER BLVD	BRONX	UNKNOWN
0012941	SPILL NUMBER 0012941	GRAND CONCOURSE & 92ND S	BRONX	UNKNOWN
0008417	EXTERIOR ST &	MAJOR DEEGAN EXPRESSWAY	BRONX	UNKNOWN
0003714	PHELAM YARD MAIN TRACK	MILE POST E-15	BRONX	UNKNOWN
1104616	POLE 23	147TH ST AND 7TH AVE	BROOKLYN	UNKNOWN
1307661	CON EDISON FEEDER LINE M51 LEAK	CON EDISON FEEDER LINE M51 LEAK	MANAHATTAN	UNKNOWN
9714182	125TH STREET TO	62 ND STREET	MANHATTAN	UNKNOWN
9713418	UNKNOWN	UNKNOWN	MANHATTAN	UNKNOWN
9601212	RALPH RANGEL HOUSES -NYCHA	159-38 HARLEM RIVER DR.	MANHATTAN	10039
9414330	5 MORGAN CT	5 MORGAN CT	MANHATTAN	UNKNOWN
9412049	84-39 153RD AVE	84-39 153RD ST	MANHATTAN	UNKNOWN
9410330	115 LAKE ROAD	115 LAKE ROAD	MANHATTAN	UNKNOWN
9402295	LOWER LEVEL EB #12	LOWER LEVER EB #12	MANHATTAN	UNKNOWN
9312441	35 GROSS STREET	35 GROSS STREET	MANHATTAN	UNKNOWN
9304809	PLANDOMD ROAD ?	PLANDOMD ROAD?	MANHATTAN	UNKNOWN
9300535	138TH ST	138TH ST	MANHATTAN	UNKNOWN
9212593	119 ZECNILYEA AVE	119 ZECNILYEA AVE	MANHATTAN	UNKNOWN
9211572	HUDSON LIFT BRIDGE	HUDSON LIFT BRIDGE	MANHATTAN	UNKNOWN

1603125	FEEDER LEAK – CON ED	HARLEM RIVER DRIVE	MANHATTAN	10039
1512391	UNKNOWN	HARLEM RIVER DRIVE SOUTH	MANHATTAN	10039
1503339	CON EDISON FEEDER LEAK	7 RIDGE HILL LANE	MANHATTAN	UNKNOWN
1502738	METRO NORTH LINE OVER HARLEM RIVER	138TH ST	MANHATTAN	UNKNOWN
1211917	3094 5TH AVE	3094 5TH AVE	MANHATTAN	10037
1113203	LOADING DOCK CITY COLLEGE CUNY	141 CONVENT AVE	MANHATTAN	10027
1100352	VAULT BENEATH SIDEWALK – TTF	89 BRADHURST AVE	MANHATTAN	10039
0912184	CONSTRUCTION SITE TRENCH	FOR 2ND AVE SUBWAY PROJECT	MANHATTAN	UNKNOWN
0412210	FEEDER M51	W 49TH STREET	MANHATTAN	UNKNOWN
1605733	STREET	2140 SEWARD AVE (INFRONT OFTHIS ADDRESS)	NEW YORK	UNKNOWN
1605699	HENRY HUDSON PARKWAY S/B	20.83 MILE MARKER	NEW YORK	UNKNOWN
1603011	CON ED FEEDER LEAK	155TH STREET HRD	NEW YORK	UNKNOWN
1304916	RIGHT SHOULDER 500’ EXIT 13 NTHBND	MAJOR DEEGAN NORTHBND	NEW YORK	UNKNOWN
0814195	211380; EXTERIOR ST & LAND RD PROLONG	EXTERIOR ST & LAND RD PROLONG	NEW YORK	UNKNOWN
9606764	FEEDER #71	DUNWOODIE TO RAINEY	NEW YORK CITY	UNKNOWN
9410857	PATTERSON	314 EAST 143RD STREET	NEW YORK CITY	10451
9007676	MAJOR DEEGAN/BX/MOBIL	MAJOR DEEGAN/BX	NEW YORK CITY	UNKNOWN
9004330	3915 OILOTT AVE/BX	3915 OILOTT AVENUE	NEW YORK CITY	UNKNOWN
9004299	137 ZEIZER PLACE/BX	137 ZEIZER PLACE	NEW YORK CITY	UNKNOWN
8909440	BRONX GRIT CHAMBER	BRUDENER BLVD	NEW YORK CITY	UNKNOWN
8904199	MAJOR DEEGAN/NORTHBOUND	MAJOR DEEGAN/NORTHBOUND	NEW YORK CITY	UNKNOWN
8707135	REGULATOR #45/W 147TH ST	REGULATOR #45/W 147TH ST	NEW YORK CITY	UNKNOWN
8705544	IND SUBWAY YARD/REGULATOR	IND SUBWAY YARD/REG. N–10	NEW YORK CITY	UNKNOWN
8605453	BELCHER SPILL INTO HARLEM	4095 5TH AVE	NEW YORK CITY	10037
0413607	JACKIE ROBINSON REC. CENT	BRADHEARST AVE	NEW YORK CITY	10039
0805773	METRO NORTH RAIL BED	METROL NORTH HUDSON LINE	RIVERDALE	UNKNOWN
9501840	UNKNOWN LOCATION	UNKNOWN LOCATION	WESTCHESTER	UNKNOWN
1509977	CON ED SUBSATION	BTWN SPRINGBROOK AND WEST 49TH ST	YONKERS	UNKNOWN

Petroleum Bulk Storage Facilities

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
2–156418	MOBIL S/S 1JARDH AAMCO TRANAS	MOBIL S/S 1JARDH AAMCO TRANAS	BRONX	10400
2–605533	BRONX TERMINAL MARKET BLDG S–1	601–649 CROMWELL AVENUE	BRONX	10451
NY01614	AROL DEVELOPMEMT CORP	601 CROMWELL AVE	BRONX	10451
NY01615	AROL DEVELOPMENT CORP	604 CROMWELL AVE	BRONX	10451
NY02336	C.KENNETH IMPORTS CO.	594 CROMWELL AVE	BRONX	10451
NY02398	CARIBE FOOD PRODUCTS	590 CROMWELL AVE	BRONX	10451
NY02953	CUBA TROPICAL	588 CROMWELL AVE	BRONX	10451
NY03824	FALCON CREST FOOD DIST.	592 CROMWELL AVE	BRONX	10451
NY06646	METRO DAIRY INC	598 CROMWELL AVE	BRONX	10451
NY06654	METRO SPANISH CORP	600 CROMWELL AVE	BRONX	10451
NY07365	NY STATE DEPT OF TRANS.	705 EXTERIOR ST	BRONX	10451
NY07366	NY STATE DEPT OF TRANS.,	703 EXTERIOR ST	BRONX	10451

Hazardous Waste Generation or Transport Facilities

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
NYP004021267	CONSOLIDATED EDISON CO	V5098 CANAL ST		UNKNOWN
NYD004119392	CONSOLIDATED EDISON	BRUCKNER BLVD	BRONX	UNKNOWN
NYD083723221	LINCOLN HOSPITAL	234 EAST 149TH STREET	BRONX	10451
NYP000927160	CONSOLIDATED EDISON	W 144TH ST	BRONX	UNKNOWN
NYP000937748	BELL ATLANTIC–NY	BRGGS AVE AND E 149TH ST	BRONX	UNKNOWN
NYP000963454	VERIZON LOG 35604	141TH ST LOG 35604	BRONX	10451
NYP003662954	NYCDEP	BRONX AVE	BRONX	UNKNOWN
NYP004027413	CONSOLIDATED EDISON	BRONX ST	BRONX	UNKNOWN
NYP004057592	CONSOLIDATED EDISON	MH26587	BRONX	UNKNOWN
NYP004106179	CONSOLIDATED EDISON	MH220–S FULTON & ITHICA	BRONX	UNKNOWN
NYP004109161	CONSOLIDATED EDISON	NBL NEC PARK AVE E	BRONX	UNKNOWN
NYP004111357	CONSOLIDATED EDISON	COURTLAND AVE & 133 ST	BRONX	UNKNOWN
NYP004114195	CONSOLIDATED EDISON	SB7304–153RD METROSEAL CORTLAN	BRONX	UNKNOWN
NYP004114260	CON EDISON – MH 18497	N/N/C 149TH ST. AND PROSPECT	BRONX	10451

NYP004120325	CONSOLIDATED EDISON		W MAJ DEEGAN SER RD MH29085	BRONX	UNKNOWN
NYP004128936	CONSOLIDATED EDISON		GATEHOUSE EDGEWATER PK	BRONX	UNKNOWN
NYP004129938	CONSOLIDATED EDISON		GATEHOUSE EDGEWATER PK MEAGER	BRONX	UNKNOWN
NYP004136115	CONSOLIDATED EDISON		?	BRONX	UNKNOWN
NYP004149837	CONSOLIDATED EDISON		CHORDCEE ROAD	BRONX	UNKNOWN
NYP004199295	CONSOLIDATED EDISON		OLD YANKEE STADIUM - E 67 ST 7 RIVER RD	BRONX	10451
NYP004611075	CON EDISON		268 E 149 ST F/O	BRONX	10451
NYP004811812	CON EDISON		GRAND CONCOURSE & COURTLANDT AVE	BRONX	10451
NYP004819086	CON EDISON		3900 WEBSTER AVE	BRONX	UNKNOWN
NYP004834889	CON EDISON		' GUNHILL RD'	BRONX	UNKNOWN
NYP004834905	CON EDISON		' GUNHILL RD'	BRONX	UNKNOWN
NYP010000230	NYCDEP		MAJOR DEEGAN & WEST	BRONX	UNKNOWN
NYP010001816	NEW YORK CITY DEP		EAST 148TH AND EAST 149TH ST	BRONX	UNKNOWN
NYR000005645	NYC DEPT OF PARKS LEEHER MCGOVERN BOUIS		LEEHER MCGOVERN BOUIS	BRONX	UNKNOWN
NYR000056069	NYCHA - JAMES MONROE HOUSES		870 ROSEDALE AVE	BRONX	10451
NYR000056150	NYC HSG AUTH THROGGS NECK		2821 DEWEY AVE	BRONX	UNKNOWN
NYR000080929	NYCTA		331 TIFFANY STREET	BRONX	UNKNOWN
NYR000100115	NEW YORK CITY DOT		CONCOURSE VILLAGE EAST	BRONX	10451
NYR000100156	NYCDOT		' GRAND CONCOURSE'	BRONX	UNKNOWN
NYR000107912	NYCDOT BRIDGES ROADWAYS DIV		153RD & 155TH BRUCKNER BLVD	BRONX	UNKNOWN
NYR000125518	NYCTA		36 BRONX AVE & WESTCHESTER AVE	BRONX	UNKNOWN
NYR000157594	NYC PARKS & RECREATION - PELHAM - SPLIT ROCK GC		870 SHORE RD	BRONX	UNKNOWN
NYR000179564	AMTRAK - HELLGATE		BRUCKNER BLVD	BRONX	UNKNOWN
NYP000852590	NYCTA		25 CANAL ST	BROOKLYN	UNKNOWN
NYP000929448	CONSOLIDATED EDISON		V119-1ST AVE & 169TH ST	BROOKLYN	UNKNOWN
NYP004171195	CONSOLIDATED EDISON		MARTIN LUTHER KING WASHINGTON HEIGHTS	MANHATTAN	UNKNOWN
NY0000010363	NYCDOT		N/S	N/S	UNKNOWN
NYD986948792	NYCDOT		BRUCKNER BLVD UNDERPASS	NEW YORK	UNKNOWN
NYP004039327	CONSOLIDATED EDISON		N/S	NEW YORK	UNKNO
NYP004072336	CONSOLIDATED EDISON		481 WESTCHESTER AVE	NEW YORK	UNKNOWN
NYP004078721	CONSOLIDATED EDISON		200 FOREST AVE	NEW YORK	UNKNOWN
NYP004080891	CON EDISION - VS3649		179 ST NORMAN AVE 179 ST NORMA	NEW YORK	10003
NYP004120366	CONSOLIDATED EDISON		MH132	NEW YORK	UNKNOWN
NYP004155909	CONSOLIDATED EDISON		209TH ST & 9TH AVE	NEW YORK	UNKNOWN
NYP004240016	CONED		VAULT 1772	NEW YORK	UNKNOWN
NYP004441465	CON EDISON		S/E/C E 41ST PROPECT PL	NEW YORK	UNKNOWN
NYP004586111	CON EDISON		FO 86 WILLET ST	NEW YORK	UNKNOWN
NYR000080713	NYSDOT D258058		BRONX RIVER PKWY	NEW YORK	UNKNOWN
NYD986934701	NYCTA - ELY AVENUE STATION		ELY AVE & 23RD ST	QUEENS	UNKNOWN
NYP004000592	CONSOLIDATED EDISON		V3150-150 G CONCOURSE	QUEENS	UNKNOWN
NYP004002937	CONSOLIDATED EDISON		V0466 - WEBSTER AVE	QUEENS	UNKNOWN
NYP004002945	CONSOLIDATED EDISON		TM0630 - MELROSE	QUEENS	10451
NYP004409074	CON EDISON		255-22 TERRACE PL	QUEENS	UNKNOWN
NYP004125126	CONSOLIDATED EDISON		BRONX ST & MOTT ST	WESTCHESTER	UNKNOWN
NYP004162772	CONSOLIDATED EDISON MH28094		MH28094 E/SIDE I-87 N/O 233RD ST	YONKERS	UNKNOWN

Air Releases

FACILITY ID	FACILITY NAME		STREET	CITY	ZIP
3600500005	COLONIAL SAND & STONE		151ST STREET	BRONX	UNKNOWN
3600500071	CE-HARLEM RIVER CHAN		CHANNEL IMPROVEMENT	BRONX	10451
3600500368	CROMWELL MAINTENANCE		201 BRONX TERMINAL	BRONX	10451
3600500369	AROL DEVELOPMENT		201 BRONX TERMINAL	BRONX	10451
3600580079	CROMWELL MAINTENANCE		201 BRONX TERMINAL	BRONX	10451
3600580080	CROMWELL MAINTENANCE		201 BRONX TERMINAL	BRONX	10451
NY005X08L	TAPOLD REALTY CORP	BRONX	NO STREET ADDRESS	NO CITY NAME	UNKNOWN
NY005X12G	J A D REALTY CORP	BRONX	NO STREET ADDRESS	NO CITY NAME	UNKNOWN
NY005X40E	ANTHONY ASSOC	BRONX	NO STREET ADDRESS	NO CITY NAME	UNKNOWN
3606160150	NYS UDC COGENERATION		MOTT HAVEN ROF PROC	SOUTH BRONX	UNKNOWN

Civil & Admin. Enforcement Docket Sites

FACILITY ID	FACILITY NAME	STREET	CITY	ZIP
NYD986915510	AROL DEVELOPMENT CORP	201 BRONX TERMINAL MARKET	BRONX	10451

Hazardous waste codes presented in individual Toxic Information Profiles are defined below.

B002 Petroleum oil or other liquid containing 50 ppm or greater of PCBs but less than 500 ppm PCBs. This includes oil from electrical equipment whose PCB concentration is unknown, except for circuit breakers, reclosers and cable.

B007 Other PCB Wastes including contaminated soil, solids, sludges, clothing, rags, and dredge material.

D001 Solid waste that exhibits the characteristic of ignitability, but is not listed under any other hazardous waste code.

D002 Solid waste that exhibits the characteristic of corrosivity, but is not listed under any other hazardous waste code.

D005 Barium

D006 Cadmium

D007 Chromium

D008 Lead

D009 Mercury

D018 BENZENE

D039 Tetrachloroethylene

F001 The following spent halogenated solvents used in degreasing: Tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1−trichloroethane, carbon tetrachloride, and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures. (T)

F003 The following spent non−halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n−butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/blends containing, before use, only the above spent non−halogenated solvents; and all spent solvent mixtures/blends containing, before use, one or more of the above non−halogenated solvents, and, a total of ten percent or more (by volume) of one or more of those solvents listed in F001, F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures. (I)*

F005 The following spent non−halogenated solvents: Toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2−ethoxyethanol, and 2−nitropropane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non−halogenated solvents or those solvents listed in F001, F002, or F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures. (I,T)

P075 Nicotine, & salts

X722 Waste oil and bottom sludge generated from tank clean−outs from residential/commercial fuel oil tanks

Source: U. S. Environmental Protection Agency

How Toxic Site Locations Are Mapped

Toxics Targeting maps toxic site locations on a digital version of the U. S. Census map or those used by local authorities using addresses and map coordinates provided by site owners/operators or government agencies. In order to allow site locations to be verified independently, the information used to map each site is presented in the first section of each Toxic Site Profile, along with a description of the mapping technique used and any address corrections that were made in order to locate toxic sites with incomplete or inadequate site location information. The mapping process is explained below.

Map Identification Number: 12

Site Name: Acme World Manufacturing, Inc.

Site Address: 55 Main Street

Anytown, NY 11797

MAP LOCATION INFORMATION

Site location mapped by:

Address Matching

1) Most toxic sites are mapped by matching addresses provided by site owners/operators or government agencies with locations on a digital version of the street or parcel map. These site locations are identified with the method used to map them.

Note: Some sites have an address match location and a map coordinate location. Both locations are mapped because they can be equally correct.

or Map Coordinate

2) Some toxic sites are located using map coordinates provided by site owners/ operators or government agencies. These site locations are identified "map coordinate." Map coordinates for Toxic Wastewater Discharges, Toxic Release Inventory sites and Major Oil Storage Facilities should be considered suspect.

or Manual Mapping

or Site Visit

3) Incomplete addresses or map coordinates require some site locations to be determined by commercial street maps (manual mapping), site visits, map coordinates from other databases and address location services. Application of any of these methods is identified accordingly.

ADDRESS CHANGE INFORMATION

Revised Street: NO CHANGE

Revised zip code: NO CHANGE

4) Site addresses are sometimes corrected to eliminate obvious errors that prevent sites from being mapped. All address corrections are noted here.

Information Source Guide

Toxics Targeting's Environmental Reports contain government and other information compiled on 21 categories of reported known or potential toxic sites. Each toxic site database is described below with information detailing a) the source of the information, b) the date when each database is covered to and c) when *Toxics Targeting* obtained the information..

1) **National Priority List for Federal Superfund Cleanup:** Toxic sites nominated for cleanup under the Federal Superfund program. Annual compilation of special two-page detailed profiles of NPL sites. Also includes delisted NPL sites.
ASTM required.* Fannie Mae required.** Source: U. S. Environmental Protection Agency.[1]
Data attributes updated from: 9/09/2015. Data obtained by Toxics Targeting: 9/09/2015.
New Facilities updated through: 9/30/2016. Data obtained by Toxics Targeting: 9/30/2016.

2) **Inactive Hazardous Waste Disposal Site Registry:** New York State database that maintains information and aids decision making regarding the investigation and cleanup of toxic sites. The Registry's data includes two-page profiles noting site name, ID number, description, classification, cleanup status, types of cleanup, owner information, types and quantities of contaminants, and assessment of health and environmental problems. Also included are sites that qualify for possible inclusion on the Registry. These Registry Qualifying sites may or may not be on the Site Registry.
ASTM required.* Fannie Mae required.** Source: New York State Department of Environmental Conservation.[2]
Data attributes updated through: 6/28/2018. Data obtained by Toxics Targeting: 6/28/2018.
New Facilities updated to: 6/28/2018. Data obtained by Toxics Targeting: 6/28/2018.

3) **Federal & State Corrective Action Activity (CORRACTS):** New York State and Federal databases of hazardous facilities regulated pursuant to the Resource Conservation and Recovery Act (RCRA).
ASTM required.* Fannie Mae required.**

Federal Data Source: U. S. Environmental Protection Agency[1]
Data attributes updated through: 3/01/2018. Data obtained by Toxics Targeting: 3/07/2018.
New facilities updated through: 3/01/2018. Data obtained by Toxics Targeting: 3/07/2018.

State Data Source: New York State Department of Environmental Conservation.[2]
Data attributes updated through: 6/28/2018. Data obtained by Toxics Targeting: 6/28/2018.
New facilities updated through: 6/28/2018. Data obtained by Toxics Targeting: 6/28/2018.

4) **CERCLIS:** Toxic sites listed in the Federal Comprehensive Environmental Response, Compensation and Liability Information System. Includes Active and No Further Remedial Action Planned (NFRAP) sites.
ASTM required.* Fannie Mae required.** Source: U. S. Environmental Protection Agency.[1]
Data attributes updated through: 10/25/2013. Data obtained by Toxics Targeting: 1/07/2014.
New Facilities updated through: 7/17/2017. Data obtained by Toxics Targeting: 8/22/2017.

5) **Brownfield Programs:** NYS & NYC programs for sites that are abandoned, idled or under-used industrial and/or commercial sites where expansion or redevelopment is complicated by real or perceived environmental contamination.
ASTM required.*

(a) **NYS DEC Brownfield Programs**: Source: New York State Department of Environmental Conservation.[2]
includes: **Brownfield Cleanup Program (BCP), Voluntary Cleanup Program (VCP), and Environmental Restoration Program (ERP)**
Data attributes updated through: 6/28/2018. Data obtained by Toxics Targeting: 6/28/2018.
New Facilities updated to: 6/28/2018. Data obtained by Toxics Targeting: 6/28/2018.

(b) **NYC Voluntary Cleanup Program:** Source: NYC Office of Environmental Remediation
Data attributes updated through: 10/13/2017. Data obtained by Toxics Targeting: 10/13/2017.
New Facilities updated to: 10/13/2017. Data obtained by Toxics Targeting: 10/13/2017.

6) **Solid Waste Facilities:** a compilation of the following 2 databases:

(a) **NYS Solid Waste Registry:** which includes, but is not limited to, landfills, incinerators, transfer stations, recycling centers.
ASTM required.* Fannie Mae required.** Source: New York State Dept. of Environmental Conservation.[2]
Data updated to: 4/1/2013. Data obtained by Toxics Targeting: 4/1/2013.

(b) **1934 Solid Waste Disposal Site in New York City:** which includes sites operated by municipal authorities circa 1934. Source: City of New York Department of Sanitation (1984). The Waste Disposal Problem in New York City: A Proposal For Action.

7) **RCRA Hazardous Waste Treatment, Storage or Disposal Facility Databases:**

(a) **Manifest Information:** New York State database of hazardous waste facilities and shipments regulated by the DEC's Division of Environmental Remediation pursuant to NYS Law and the Resource Conservation and Recovery Act (RCRA).
ASTM required.* Fannie Mae required.** Source: New York State Department of Environmental Conservation.[2]

New facilities updated through: 1/22/2018. New facilities obtained by Toxics Targeting: 1/24/2018.
Manifest transactions data updated to: 1/22/2018. Manifest transactions data obtained by Toxics Targeting: 1/24/2018.

(b) **RCRA Notifier & Violations Information:** U. S. Environmental Protection Agency database of hazardous facilities regulated pursuant to the Resource Conservation and Recovery Act (RCRA).
ASTM required.* Fannie Mae required.** Source: U. S. Environmental Protection Agency[1]
New facilities updated through: 3/01/2018. Data obtained by Toxics Targeting: 3/07/2018.
Data attributes updated through: 3/01/2018. Data obtained by Toxics Targeting: 3/07/2018.

8) **Spills Information Database:** Spills reported to the DEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from Petroleum Bulk Storage Regulations) or 6 NYCRR Section 595.2 (from Chemical Bulk Storage Regulations). This database includes both *active* and *closed* spills.
ASTM required.* Fannie Mae.** Source: NYS Department of Environmental Conservation.[2]

New spills through: 6/22/2018 New spills data obtained by Toxics Targeting: 6/22/2018
Spill attribute data through: 6/22/2018 Spill attribute data obtained by Toxics Targeting: 6/22/2018

Active spills: paperwork not completed. Closed spills: paperwork completed.
Both active and closed spills may or may not have been cleaned up (see Date Cleanup Ceased in spill profiles).

9) **Major Oil Storage Facilities:** NYS database of facilities licensed pursuant to Article 12 of the Navigation Law, 6NYCRR Parts 610 and 17NYCRR Part 30, such as onshore facilities or vessels, with petroleum storage capacities equal to or greater than four hundred thousand gallons. **Tank & other data withheld by NYSDEC as of 4/1/2002**.
ASTM required.* Fannie Mae required.** Source: New York State Department of Environmental Conservation.[2]

Data updated through: 7/1/2016. Data obtained by Toxics Targeting: 7/1/2016.

10) **Petroleum Bulk Storage Facilities:** a compilation of local and state databases of aboveground and underground petroleum storage tank facilities.

(a) **NYS Petroleum Bulk Storage Database:** This includes all New York State counties except Cortland, Nassau, Rockland, Suffolk, and Westchester. ASTM required.* Fannie Mae required.**
Source: NYS Department of Environmental Conservation.[2]
New facilities updated through: 7/1/2016. Data obtained by Toxics Targeting: 7/1/2016.
Tank data updated through: 7/1/2016. Data obtained by Toxics Targeting: 7/1/2016.

(b) **New York City Fire Department Tank Data:** **Data has been withheld by the NYC Fire Dept.**
Source: New York City Fire Department. Data obtained by Toxics Targeting: 2/18/1997

11) **RCRA Hazardous Waste Generators and/or Transporters Databases:**

(a) **Manifest Information:** New York State database of hazardous waste facilities and shipments regulated by the NYS Department of Environmental Conservation's Division of Environmental Remediation pursuant to New York State Law. ASTM required.* Fannie Mae required.** Source: New York State Department of Environmental Conservation.[2]

New facilities updated through: 1/22/2018. New facilities obtained by Toxics Targeting: 1/24/2018.
Manifest transactions data updated to: 1/22/2018. Manifest transactions data obtained by Toxics Targeting: 1/24/2018.

(b) **RCRA Notifier & Violations Information:** U. S. Environmental Protection Agency database of hazardous facilities regulated pursuant to the Resource Conservation and Recovery Act (RCRA).
ASTM required.* Fannie Mae required.** Source: U. S. Environmental Protection Agency[1]

New facilities updated through: 3/01/2018. Data obtained by Toxics Targeting: 3/07/2018.
Data attributes updated through: 3/01/2018. Data obtained by Toxics Targeting: 3/07/2018.

12) **Chemical Bulk Storage Facilities:** New York State database of facilities compiled pursuant to 6NYCRR Part 596 that store regulated substances listed in 6NYCRR Part 597 in aboveground tanks with capacities greater than 185 gallons and /or in underground tanks of any size. **Tank & other data withheld by NYSDEC as of 4/1/2002**.
ASTM required.* Fannie Mae required.** Source: New York State Department of Environmental Conservation.[2]
Data updated through: 7/1/2016. Data obtained by Toxics Targeting: 7/1/2016.

13) **Historic New York City Utility Facilities (1898 to 1950):** An inventory of selected power generating stations, manufactured gas plants, gas storage facilities, maintenance yards and other gas and electric utility sites identified in various historic documents, maps and annual reports of New York utility companies, including: Sanborn Fire Insurance Maps of NYC (1898-1950); Consolidated Edison Co. Annual Reports (1922-1939); Consolidated Edison Co. Map: "Boroughs of Manhattan and the Bronx Showing Distribution Mains of the New York Edison Co.," (1922); and Consolidated Edison document: "Generating and Annex Stations," (1911).

14) **Hazardous Substance Waste Disposal Site Study:** NYS database of waste disposal sites that may pose threats to public health or the environment, but could not be remediated using monies from the Hazardous Waste Remedial Fund.
Source: New York State Department of Environmental Conservation.[2]
Data updated to: 5/16/2000. Data obtained by Toxics Targeting: 5/16/2000.

15) **Toxic Release Inventory (TRI):** Federal database of manufacturing facilities required under Section 313 of the Federal Emergency Planning and Community Right-to-Know Act to report releases to the air, water and land of any specifically listed toxic chemical. See Fannie Mae requirement** below.
Source: U. S. Environmental Protection Agency.[1] / NYS Department of Environmental Conservation[2]
Data updated through: 3/8/2004. Data obtained by Toxics Targeting: 3/25/2004

16) **Toxic Wastewater Discharges (Permit Compliance System):** Federal database of discharges of wastewater to surface waters and groundwaters. See Fannie Mae requirement** below. Source: U. S. Environmental Protection Agency.[1]
Data updated through: 6/17/2004. Data obtained by Toxics Targeting: 7/19/2004.

17) **Air Discharge Facilities:** EPA AIRS database containing address information on each air emission facility and the type of air pollutant emission it is. Compliance information is also provided on each pollutant as well as the facility itself.
See Fannie Mae requirement** below. Source: U. S. Environmental Protection Agency[1]
Data updated through: 11/24/1999. Data obtained by Toxics Targeting: 1/6/2000

18) **Civil Enforcement & Administrative Docket:** This database is the U. S. EPA's system for tracking administrative and civil judiciary cases filed on behalf of the agency by the Department of Justice. Fannie Mae required.**
Source: U. S. Environmental Protection Agency.[1]
New Sites through: 10/14/1999.
Data updated through: 10/14/1999. Data obtained by Toxics Targeting: 11/18/1999.

19) **New York City Environmental Quality Review (CEQR) – E Designation Sites:** These sites are parcels assigned a special environmental ("E") designation under the CEQR process. E designation requires specific protocols that must be followed. Source: New York City Department of Planning[3]
Data updated through: 3/22/2018. Data obtained by Toxics Targeting: 4/3/2018.

20) **Emergency Response Notification System (ERNS):** Federal database of spills compiled by the Emergency Response Notification System. On-site searches only.
ASTM required.* See Fannie Mae requirement** below. Source: U. S. Environmental Protection Agency.[1]
Data updated through: 1/31/2000. Data obtained by Toxics Targeting: 2/15/2000

21) **Remediation Site Borders:** Remediation site borders reported by NYSDEC.
Source: New York State Department of Environmental Conservation.[2]
Updated through: 4/8/2009. Data obtained by Toxics Targeting: 7/21/2009.

* American Society of Testing Materials: Standard Practice on Environmental Site Assessments: Phase I Environmental Site Assessment Process (E1527-05).
** Fannie Mae's Part X Environmental Hazards Management Procedures specify 1.0 mile searches for "any state or Federal list of hazardous waste sites (e.g. CERCLIS, HWDMS etc.)." Searches for the property and adjacent properties are specified for "chemical manufacturing plants," "obvious high risk neighbors engaging in storing or transporting hazardous waste, chemicals or substances" and "...any documented or visible evidence of dangerous waste handling... (e.g. stressed vegetation, stained soil, open or leaking containers, foul fumes or smells, oily ponds, etc." Searches for property and adjacent properties can include sites up to a quarter mile away (W. Hayward, Director, Multi-Family Business Planning and Control, Fannie Mae, personal communication, 5/94).

[1]U. S. Environmental Protection Agency, 290 Broadway, NY, NY 10007-1866.

[2]NYS Department of Environmental Conservation, 625 Broadway, Albany, NY 12233.

[3]New York City Department of City Planning, 22 Reade St, New York, NY 10007-1216

Appendix F

Site Photographs

580-610 Gerard Avenue
Bronx, NY
Phase I Environmental Site Assessment

GEI Consultants

Consulting Engineers and Scientists

Site Photographs

August 9, 2018

1. Front exterior of project site. View looking east across Gerard Avenue.

2. Sub-grade cellar and view of boiler.

3. Floor drain and associated clean-out port.

4. Truck lifts located along north wall of building.

5. Hydraulic lifts located in the southeastern quadrant of the building

6. Roll up garage door entrance along Gerard Avenue.

7. Former fill port associated with 2,500-gallon abandoned UST, located on western portion of building bordering Gerard Avenue.

8. Likely former location of fill port associated with former gasoline USTs, located in southeastern quadrant of building bordering Gerard Avenue.

CONSULTANTS, INC.
225 West 37th
15th floor
New York NY 10018

February 4, 2020

Jay M. Jameson
Executive Vice President, Director of Design & Construction
Silverback Development
40 West 57th Street, 29th Floor
New York, NY 10019

RE: 580 GERARD AVENUE, BRONX, NY
SOIL TESTING / WASTE CHARECTERIZTION FOR SITE DEVELOPMENT
DPV Project 2019160

Dear Jay,

Below please find a summary work performed at your request on behalf of Silverback Development at 580 Gerard Avenue, Bronx NY which details our preliminary results and recommendations regarding soil testing, soil contamination and site development.

Introduction

DPV Consultants has been retained by Silverback Development to undertake provide waste classification assessment of soil type materials underlying 610-580 Gerald Street. The soil waste classification assessment was undertaken during December 2019 and preliminary findings are reported within the following letter report. DPV conducted soil assessments and prepared a soil collection scheme using all applicable environmental standards that satisfy regulatory requirements and due diligence in accordance with applicable local, state and federal regulations as directed by Silverback Development.

Report Limitations

This report has been prepared for the sole use of Silverback Development. DPV Consultants accepts no liability for any use of this document other than by the client. All reasonable skill, care and diligence have been applied in examining the information obtained, however DPV Consultants accepts no responsibility for inaccuracies in the data provided by others or for opinions based on any such inaccuracies.

Background

At the beginning of the sampling process DPV was contracted to perform sampling at 580 Gerard Ave only. After careful examination of historical data provided to DPV by Silverback Development (Phase 1 and Phase 2 Environmental Site Assessment performed by GEI Consulting Engineers & Scientists), it became clear that the subject property boundary also included the tax block and lot of 610 Gerard Ave as well. Additionally, the historical data provided in these documents revealed significant soil contamination had been identified at the site including heavy metals, volatile organic compounds, semi-volatile organic

compounds, and other hazardous compounds. As a result, DPV's sampling scheme was designed to comply with NYSDEC CP-51, NYSDEC-DER 10, as well as NYC OER requirements since the site has also been given an "E" Designation by NYC OER. This assessment included sampling and chemical analysis of the soil type materials for Hazardous Waste assessment purposes. New York State Department of Environmental Conservation DER-10, and the recommended guidelines for New York State Department of Environmental Protection Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375) were also followed in accordance with our sample collection scheme.

Site Description

The site consists of 92% urban land till substratum and 8% Minor components with 3-8% slopes. Historical data provided indicates the presence of an underground storage tank which appears to be located within the boundaries of the 610-580 Gerard Ave tax block and lot. This is based on a GPR (ground penetrating radar) survey performed and referenced in the GEI Phase 2 document.

Site History/Historical Data

Phase 1 and Phase 2 Environmental Site Assessments were conducted by GEI on August 8 and 10, 2018. Based on their findings, the site is contaminated with various heavy metals, VOCs, and SVOCs. The site has historically documented use as a Postal Bus Depot for a period of approximately 20 years. According to NYSDEC-DER 10 bus depots are considered "areas of concern" (AOC) and environmental sampling must be conducted in accordance with New York State Department of Environmental Protection Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375). The site has also been labelled as an E-designated parcel (E Number E-292) by New York City Department of Environmental Protection (NYCDEP).

Fieldwork

At the time of this investigation 25 soil sample sets (TAL/TCL + 30 and VOC grab samples) were collected from various soil borings throughout the 610-580 Gerard Ave site. Soil sampling was performed in concert with JMZ Engineering who were performing soil boring and testing to bedrock for structural purposes. Boring was conducted using a DDT borehole drill to a depth of up to 0 ~ 30 Ft from grade level. Soil samples were taken from various depths, 25-point sample composites (TAL/TCL +30) were taken at 13 different excavation pits and were combined based on the sample set (25 in total). Each sample set was distinguished based on random depth interval selection using the NYSDEC-DER 10-standard methodology. Volatile Organic compound (VOCs) grab samples were collected at different depths to assure the validity of the sample results. All samples were packaged and cooled at 4 degrees Celsius and were picked-upon the site by a courier for delivery to York Laboratories. Remnant soils and debris resulting from the boring and testing were placed in a hazardous waste drum for NYCOER review.

Laboratory:

Soil samples were collected and analyzed in accordance with EPA methods defined as "Target compound list plus 30" or "TCL + 30" and TAL or Target Analyte List. TCL + 30 includes analytical methods for the list of organic compounds designated for analysis (Target Compound List or TCL) and up to 30 non-targeted organic compounds (plus 30) as detected by gas chromatography/mass spectroscopy (GC/MS) analysis in accordance with the EPA "Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration" in effect as of the date on which the laboratory performed the analysis,. Target Analyte list" or "TAL" means the list of inorganic compounds/elements

designated for analysis in accordance with the aforementioned EPA mandate. VOC random grab samples were collected using VOA 40 ml vials at random locations through the soil boring investigation. All samples were collected using proper laboratory bottle ware, were preserved on ice after collection, and were submitted via courier to York Analytical Laboratories, Inc. located at 120 Research Drive, Stratford, CT, a New York State Department of Health (NYSDOH) Environmental Laboratory Accreditation Program (ELAP) certified laboratory. Field blanks were added as a precaution of possible contamination of the backhoe in use.

Conclusions/Recommendations:

A review of laboratory analytical results of soil samples collected and tested for VOCs, SVOCs Metals, PCB, Pesticides and other organic and inorganic compounds, certain parameter levels exceeded recommended guidelines and are summarized in Table 1.0 (attached). are considered above the recommended guidelines for New York State Department of Environmental Conservation Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375). Certain compounds exceeded some of Unrestricted Use Soil Cleanup Objectives guidelines.

As NYCOER governs all environmental E-designated sites within the City of New York, no soil excavation can occur without their explicit approval. DPV recommends scheduling a meeting with NYC OER personnel to review testing performed to date and to begin working towards NYCOER approval for site development. Since NYSDEC requirements have been fulfilled as regards soil testing, interfacing with NYCOER and obtaining NYCOER approval is the next logical step. It is likely that additional testing of soils may be mandated by NYCOER, and as the site has documented soil contamination some soil remediation may be required. Additionally, the tank identified in historical data provided shall require removal in accordance with NYCDEC-DER 10 prior to any major excavation in the vicinity of the tank.

A table summarizing laboratory results of soil testing to date (Table 2) as well as all laboratory analytical results performed to date have been attached for your records and review.

Best regards

Michael McMahon
President

TABLE 2

ANALYTICAL SUMMARY

TABLE 2

SUMMARY OF ANALYTICAL RESULTS - SOIL SAMPLES

Environmental Site Soil Assessment

580 Gerard Ave

Bronx, NY 10451

						NYSDEC Soil Cleanup Objectives[1]		
Sample ID:	SB-1 (1)	SB-2 (2)	SB-2 (3)	SB-3 (4)	SB-3 (5)	Unrestricted Use	Restricted Use	
Sample Depth:	2-3 Ft	4-5 Ft	6-7Ft	7-8 Ft	9-10 Ft		Residential-Restricted	Commerical
VOC via EPA Method 8260								
Methylene chloride	ND	16 ug/kg	10 ug/kg	ND	8.5 ug/kg	500 ug/kg	500 ug/kg	500 ug/kg
Acetone	43 ug/kg	8.9 ug/kg	13 ug/kg	14 ug/kg	14 ug/kg	500,000 ug/kg	100,000 ug/kg	500,000 ug/kg
Volatile Organics, Tentatively Identified Cmpds EPA Method 5035A								
SVOCs via EPA Method 8270								
Fluoranthene	ND	ND	ND	ND	ND	100000 ug/kg	100000 ug/kg	100000 ug/kg
2-Methylnaphthalene	ND	ND	ND	86.3 ug/kg	ND	100000 ug/kg	100000 ug/kg	100000 ug/kg
Pyrene	ND	ND	ND	ND	ND	100000 ug/kg	100000 ug/kg	100000 ug/kg
Acenaphthene	ND	ND	ND	211 ug/kg	ND	100000 ug/kg	100000 ug/kg	100000 ug/kg
Anthracene	ND	ND	ND	672 ug/kg	ND	100000 ug/kg	100000 ug/kg	100000 ug/kg
Benzo(a)anthracene	ND	ND	ND	913 ug/kg	ND	100000 ug/kg	100000 ug/kg	100000 ug/kg
Bis(2-ethylhexyl)phthalate	ND	134 ug/kg	128 ug/kg	71.8 ug/kg	ND	1,000 ug/kg	1,000 ug/kg	1,000 ug/kg
Benzo(a)pyrene	ND	ND	ND	753 ug/kg	ND	1,000 ug/kg	1,000 ug/kg	1,000 ug/kg
Benzo(b)fluoranthene	ND	ND	ND	627 ug/kg	ND	1,000 ug/kg	1,000 ug/kg	1,000 ug/kg
Benzo(g,h,i)perylene	ND	ND	ND	439 ug/kg	ND	100000 ug/kg	100000 ug/kg	100000 ug/kg
Benzo(k)fluoranthene	ND	ND	ND	601 ug/kg	ND	1,000 ug/kg	1,000 ug/kg	1,000 ug/kg
Benzyl butyl phthalate	ND	ND	50 ug/kg	ND	ND	NS	NS	NS
Carbazole	ND	ND	ND	237 ug/kg	ND	1,000 ug/kg	1,000 ug/kg	1,000 ug/kg
Chrysene	ND	ND	ND	877 ug/kg	ND	1,000 ug/kg	1,000 ug/kg	1,000 ug/kg
Fluoranthene	ND	ND	ND	2390 ug/kg	ND	100000 ug/kg	100000 ug/kg	100000 ug/kg
Fluorene	ND	ND	ND	262 ug/kg	ND	30,000 ug/kg	30,000 ug/kg	30,000 ug/kg
Dibenzo(a,h)anthracene	ND	ND	ND	108 ug/kg	ND	3,300 ug/kg	3,300 ug/kg	3,300 ug/kg
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	12000 ug/kg	12000 ug/kg	12000 ug/kg
Dibenzofuran	ND	ND	ND	195 ug/kg	ND	3,300 ug/kg	3,300 ug/kg	3,300 ug/kg
Naphthalene	ND	ND	ND	110 ug/kg	ND	100000 ug/kg	100000 ug/kg	100000 ug/kg
Indeno(1,2,3-cd)pyrene	ND	ND	ND	468 ug/kg	ND	NS	NS	NS
Phenanthrene	ND	ND	ND	2490 ug/kg	ND	12000 ug/kg	12000 ug/kg	12000 ug/kg
Pyrene(1)	ND	ND	ND	1850 ug/kg	ND	12000 ug/kg	12000 ug/kg	12000 ug/kg
Polychlorinated Biphenyls (PCB)								
Pesticides, 8081 target list								
4,4'-DDD	ND	ND	ND	5.82 ug/kg	ND	3.3 ug/kg	1,800 ug/kg	8,900 ug/kg
4,4'-DDT	ND	ND	ND	29.3 ug/kg	ND	3.3 ug/kg	1,800 ug/kg	8,900 ug/kg
Metals, Target Analyte								
Aluminum	4060 mg/kg	6300 mg/kg	4500 mg/kg	7010 mg/kg	8150 mg/kg	350 mg/kg	400 mg/kg	400 mg/kg
Arsenic	ND	ND	ND	6.63 mg/kg	2.13 mg/kg	30 mg/kg	180 mg/kg	1,500 mg/kg
Barium	20.4 mg/kg	29.6 mg/kg	38.0 mg/kg	101 mg/kg	48 mg/kg	63 mg/kg	400 mg/kg	1,000 mg/kg
Cadmium	ND	ND	ND	0.467 mg/kg	ND	2.5 mg/kg	4.5 mg/kg	4.5 mg/kg
Calcium	66200 mg/kg	56000 mg/kg	63500 mg/kg	45500 mg/kg	2790 mg/kg	NS	NS	NS
Chromium	17.3 mg/kg	22.0 mg/kg	15.0 mg/kg	21.7 mg/kg	16.3 mg/kg	30 mg/kg	36 mg/kg	180 mg/kg
Cobalt	4.72 mg/kg	5.91 mg/kg	8.66 mg/kg	7.82 mg/kg	6.20 mg/kg	30 mg/kg	NS	NS
Copper	30.1 mg/kg	21.6 mg/kg	19.4 mg/kg	114 mg/kg	8.40 mg/kg	50 mg/kg	270 mg/kg	270 mg/kg

						NYSDEC Soil Cleanup Objectives[1]		
Sample ID:	SB-1 (1)	SB-2 (2)	SB-2 (3)	SB-3 (4)	SB-3 (5)	Unrestricted Use	Restricted Use	
Sample Depth:	2-3 Ft	4-5 Ft	6-7Ft	7-8 Ft	9-10 Ft		Residential-Restricted	Commerical
Iron	10400 mg/kg	12900 mg/kg	9570 mg/kg	16300 mg/kg	13,500 mg/kg	2,000 mg/kg	NS	NS
Lead	4.61 mg/kg	5.14 mg/kg	4.56 mg/kg	232 mg/kg	6.69 mg/kg	63 mg/kg	400 mg/kg	400 mg/kg
Magnesium	41,100 mg/kg	35200 mg/kg	40300 mg/kg	25400 mg/kg	3340 mg/kg	NS	NS	NS
Manganese	169 mg/kg	228 mg/kg	510 mg/kg	319 mg/kg	317 mg/kg	1,600 mg/kg	2,000 mg/kg	2,000 mg/kg
Nickel	9.56 mg/kg	17.0 mg/kg	11.7 mg/kg	20 mg/kg	15 mg/kg	30 mg/kg	130 mg/kg	130 mg/kg
Selenium	ND	ND	3.10 mg/kg	5.70 mg/kg	ND	3.9 mg/kg	4 mg/kg	4 mg/kg
Potassium	920 mg/kg	987 mg/kg	931 mg/kg	1340 mg/kg	2130 mg/kg	NS	NS	NS
Sodium	477 mg/kg	396 mg/kg	290 mg/kg	183 mg/kg	97.2 mg/kg	NS	NS	NS
Vanadium	17 mg/kg	17.7 mg/kg	15.6 mg/kg	27.8 mg/kg	17.5 mg/kg	100 mg/kg	NS	NS
Zinc	29.0 mg/kg	88.7 mg/kg	47.4 mg/kg	166 mg/kg	28.2 mg/kg	109 mg/kg	2480 mg/kg	2,480 mg/kg
Mercury	ND	ND	ND	0.0978 mg/kg	ND	0.18 mg/kg	0.73 mg/kg	0.73 mg/kg

NS= Not specified
All results are in mg/kg(PPM) and ug/kg(PPB)
ND = None Detected
1=16 NYCRR PART 375
Notes:
All results are in mg/kg(PPM) and ug/kg(PPB)

ND = None Detected
NS= Not specified

[1]=16 NYCRR PART 375 Environmental Remediation ProgramsSubparts 375-1 to 375- 4 & 375-6 (December 14, 2006)

TABLE 2
SUMMARY OF ANALYTICAL RESULTS - SOIL SAMPLES
Environmental Site Soil Assessment
580 Gerard Ave
Bronx, NY 10451

						NYSDEC Soil Cleanup Objectives[1]		
Sample ID:	SB-3 (6)	SB-4 (7)	SB-4 (8)	SB-5 (9)	SB-5 (10)	Unrestricted Use	Restricted Use	
Sample Depth:	11-12 Ft	13-14 Ft	15-16Ft	2-3 Ft	9-10 Ft		Residential-Restricted	Commerical
VOC via EPA Method 8260								
Methylene chloride	ND	ND	11 ug/kg	15 ug/kg	10 ug/kg	500 ug/kg	500 ug/kg	500 ug/kg
Acetone	9.4 ug/kg	15.0 ug/kg	12 ug/kg	5.3 ug/kg	7.3 ug/kg	500,000 ug/kg	100,000 ug/kg	500,000 ug/kg
sec-Butylbenzene	ND	ND	ND	ND	ND	5000 ug/kg	5000 ug/kg	5000 ug/kg
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	84000 ug/kg	84000 ug/kg	84000 ug/kg
Chloroform	ND	ND	ND	ND	ND	3,700 ug/kg	3,700 ug/kg	3,700 ug/kg
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	NS	NS	NS
Volatile Organics, Tentatively Identified Cmpds EPA Method 5035A								
SVOCs via EPA Method 8270								
Acenaphthene	ND	ND	279 ug/kg	ND	152 ug/kg	100000 ug/kg	100000 ug/kg	100000 ug/kg
Anthracene	ND	ND	1120 ug/kg	ND	263 ug/kg	100000 ug/kg	100000 ug/kg	100000 ug/kg
Benzo(a)anthracene	61.7 ug/kg	ND	2270 ug/kg	ND	1830 ug/kg	1,000 ug/kg	1,000 ug/kg	1,000 ug/kg
Bis(2-ethylhexyl)phthalate	ND	ND	134 ug/kg	ND	157 ug/kg	1,000 ug/kg	1,000 ug/kg	1,000 ug/kg
Benzo(a)pyrene	49.8 ug/kg	ND	2070 ug/kg	ND	1880 ug/kg	1,000 ug/kg	1,000 ug/kg	1,000 ug/kg
Benzo(b)fluoranthene	ND	ND	1650 ug/kg	ND	1470 ug/kg	100000 ug/kg	100000 ug/kg	100000 ug/kg
Benzo(g,h,i)perylene	ND	ND	1300 ug/kg	ND	1160 ug/kg	1,000 ug/kg	1,000 ug/kg	1,000 ug/kg
Benzo(k)fluoranthene	ND	ND	1640 ug/kg	ND	1460 ug/kg	1,000 ug/kg	1,000 ug/kg	1,000 ug/kg
Benzyl butyl phthalate	ND	ND	ND	ND	ND	1,000 ug/kg	1,000 ug/kg	1,000 ug/kg
Carbazole	ND	ND	314 ug/kg	ND	151 ug/kg	NS	NS	NS
Chrysene	52.8 ug/kg	ND	2280 ug/kg	ND	1960 ug/kg	30,000 ug/kg	30,000 ug/kg	30,000 ug/kg
Fluoranthene	132 ug/kg	ND	5010 ug/kg	ND	3330 ug/kg	30,000 ug/kg	30,000 ug/kg	30,000 ug/kg
Fluorene	ND	ND	361 ug/kg	ND	144 ug/kg	3,300 ug/kg	3,300 ug/kg	3,300 ug/kg
Dibenzo(a,h)anthracene	ND	ND	459 ug/kg	ND	459 ug/kg	12000 ug/kg	12000 ug/kg	12000 ug/kg
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	500 ug/kg	500 ug/kg	500 ug/kg
Dibenzofuran	ND	ND	ND	ND	ND	100000 ug/kg	100000 ug/kg	100000 ug/kg
Naphthalene	ND	ND	ND	ND	ND	12000 ug/kg	12000 ug/kg	12000 ug/kg
Indeno(1,2,3-cd)pyrene	ND	ND	1320 ug/kg	ND	1190 ug/kg	500 ug/kg	500 ug/kg	500 ug/kg
Phenanthrene	144 ug/kg	ND	4140 ug/kg	ND	1840 ug/kg	100000 ug/kg	100000 ug/kg	100000 ug/kg
Pyrene	98.1 ug/kg	ND	4610 ug/kg	ND	3030 ug/kg	100000 ug/kg	100000 ug/kg	100000 ug/kg
Polychlorinated Biphenyls (PCB)								
Aroclor 1260	0.0184 mg/kg	0.0215 mg/kg	ND	ND	ND	NS	NS	NS
Pesticides, 8081 target list								
Metals, Target Analyte								
Aluminum	8340 mg/kg	10,600 mg/kg	9240 mg/kg	7040 mg/kg	8150 mg/kg	350 mg/kg	400 mg/kg	400 mg/kg
Arsenic	1.73 mg/kg	2.09 mg/kg	7.99 mg/kg	ND	ND	30 mg/kg	180 mg/kg	1,500 mg/kg
Barium	54.2 mg/kg	64.1 mg/kg	97.3 mg/kg	30.9 mg/kg	162 mg/kg	63 mg/kg	400 mg/kg	1,000 mg/kg
Cadmium	ND	ND	0.614 mg/kg	ND	0.510 mg/kg	2.5 mg/kg	4.5 mg/kg	4.5 mg/kg
Calcium	1170 mg/kg	1260 mg/kg	22,400 mg/kg	5070 mg/kg	19700 mg/kg	NS	NS	NS
Chromium	17.1 mg/kg	15.0 mg/kg	21.3 mg/kg	12.3 mg/kg	33.6 mg/kg	30 mg/kg	36 mg/kg	180 mg/kg
Cobalt	6.65 mg/kg	5.91 mg/kg	8.5 mg/kg	5.28 mg/kg	10.1 mg/kg	30 mg/kg	NS	NS

						NYSDEC Soil Cleanup Objectives[1]		
Sample ID:	SB-3 (6)	SB-4 (7)	SB-4 (8)	SB-5 (9)	SB-5 (10)	Unrestricted Use	Restricted Use	
Sample Depth:	11-12 Ft	13-14 Ft	15-16Ft	2-3 Ft	9-10 Ft		Residential-Restricted	Commerical
Copper	9.10 mg/kg	6.02 mg/kg	70.4 mg/kg	11.5 mg/kg	279 mg/kg	50 mg/kg	270 mg/kg	270 mg/kg
Iron	13700 mg/kg	12400 mg/kg	1670 mg/kg	11900 mg/kg	19,200 mg/kg	2,000 mg/kg	NS	NS
Lead	8.44 mg/kg	165 mg/kg	268 mg/kg	12.4 mg/kg	242 mg/kg	63 mg/kg	400 mg/kg	400 mg/kg
Magnesium	3210 mg/kg	3110 mg/kg	11500 mg/kg	3190 mg/kg	4970 mg/kg	NS	NS	NS
Manganese	332 mg/kg	270 mg/kg	385 mg/kg	342 mg/kg	302 mg/kg	1,600 mg/kg	2,000 mg/kg	2,000 mg/kg
Nickel	15.4 mg/kg	16.0 mg/kg	20.6 mg/kg	12.4 mg/kg	25.9 mg/kg	30 mg/kg	130 mg/kg	130 mg/kg
Selenium	ND	ND	ND	5.70 mg/kg	ND	3.9 mg/kg	4 mg/kg	4 mg/kg
Potassium	1910 mg/kg	946 mg/kg	1770 mg/kg	1110 mg/kg	1660 mg/kg	NS	NS	NS
Sodium	101 mg/kg	327 mg/kg	290 mg/kg	222 mg/kg	415 mg/kg	NS	NS	NS
Vanadium	18.8 mg/kg	28.7 mg/kg	15.6 mg/kg	14.7 mg/kg	31.6 mg/kg	100 mg/kg	NS	NS
Zinc	33.6 mg/kg	252 mg/kg	47.4 mg/kg	31.3 mg/kg	329 mg/kg	109 mg/kg	2480 mg/kg	2,480 mg/kg
Mercury	ND	ND	0.249 mg/kg	ND	0.498 mg/kg	0.18 mg/kg	0.73 mg/kg	0.73 mg/kg

Notes:
All results are in mg/kg(PPM) and ug/kg(PPB)
ND = None Detected
NS= Not specified
1=16 NYCRR PART 375 Env ironmental Remediation ProgramsSubparts 375 - 1 to 375 - 4 & 375 - 6 (December 14, 2006)

TABLE 2

SUMMARY OF ANALYTICAL RESULTS - SOIL SAMPLES

Environmental Site Soil Assessment

580 Gerard Ave

Bronx, NY 10451

						NYSDEC Soil Cleanup Objectives[1]		
Sample ID:	SB-6 (11)	SB-6 (12)	SB-7 (13)	SB-7 (14)	SB-8 (15)	Unrestricted Use	Restricted Use	
Sample Depth:	6-7 Ft	7-8 Ft	9-10Ft	10-11 Ft	11-12 Ft		Residential-Restricted	Commerical
VOC via EPA Method 8260								
Methylene chloride	8.5 ug/kg	11.8 ug/kg	9.4 ug/kg	10 ug/kg	ND	500 ug/kg	500 ug/kg	500 ug/kg
Acetone	9.3 ug/kg	11 ug/kg	9.7 ug/kg	14 ug/kg	16	500 ug/kg	500 ug/kg	500 ug/kg
Bromomethane	ND	ND	ND	ND	ND	NS	NS	NS
SVOCs via EPA Method 8270								
Fluoranthene	65.8 ug/kg	ND	ND	ND	ND	100000 ug/kg	100000 ug/kg	100000 ug/kg
Pyrene	51.2 ug/kg	ND	ND	ND	ND	100000 ug/kg	100000 ug/kg	100000 ug/kg
Polychlorinated Biphenyls (PCB)								
Pesticides, 8081 target list								
Metals, Target Analyte								
Aluminum	6330 mg/kg	5960 mg/kg	9340 mg/kg	5080 mg/kg	8590 mg/kg	350 mg/kg	400 mg/kg	400 mg/kg
Arsenic	1.82 mg/kg	1.93 mg/kg	ND	ND mg/kg	ND mg/kg	30 mg/kg	180 mg/kg	1,500 mg/kg
Barium	42.1 mg/kg	43.2 mg/kg	37.6	127 mg/kg	90.8 mg/kg	63 mg/kg	400 mg/kg	1,000 mg/kg
Cadmium	ND	ND	ND	ND	0.379 mg/kg	2.5 mg/kg	4.5 mg/kg	4.5 mg/kg
Calcium	40700 mg/kg	1440 mg/kg	49000 mg/kg	15,000 mg/kg	51,500 mg/kg	NS	NS	NS
Chromium	32.5 mg/kg	11.7 mg/kg	14.7 mg/kg	10.7 mg/kg	27.6 mg/kg	30 mg/kg	36 mg/kg	180 mg/kg
Cobalt	42.1 mg/kg	5.37 mg/kg	6.19 mg/kg	4.04 mg/kg	8.87 mg/kg	30 mg/kg	NS	NS
Copper	28.2 mg/kg	19.1 mg/kg	11.9 mg/kg	1190 mg/kg	19 mg/kg	50 mg/kg	270 mg/kg	270 mg/kg
Iron	11900 mg/kg	10900 mg/kg	11,100 mg/kg	8620 mg/kg	15,000 mg/kg	2,000 mg/kg	NS	NS
Lead	111 mg/kg	5.13 mg/kg	1.49 mg/kg	44.8 mg/kg	0.607 mg/kg	63 mg/kg	400 mg/kg	400 mg/kg
Magnesium	25500 mg/kg	2590 mg/kg	11,800 mg/kg	2630 mg/kg	34,600 mg/kg	NS	NS	NS
Manganese	169 mg/kg	256 mg/kg	267 mg/kg	124 mg/kg	249 mg/kg	1,600 mg/kg	2,000 mg/kg	2,000 mg/kg
Nickel	11.0 mg/kg	10.7 mg/kg	12.8 mg/kg	8.81 mg/kg	18 mg/kg	30 mg/kg	130 mg/kg	130 mg/kg
Potassium	1460 mg/kg	1320 mg/kg	1360 mg/kg	1420 mg/kg	4460 mg/kg	NS	NS	NS
Sodium	323 mg/kg	133 mg/kg	344 mg/kg	166 mg/kg	247 mg/kg	NS	NS	NS
Vanadium	27.7 mg/kg	17.3 mg/kg	18.2 mg/kg	12.3 mg/kg	33.9 mg/kg	100 mg/kg	NS	NS
Zinc	78.4 mg/kg	24.9 mg/kg	26.1 mg/kg	97.3 mg/kg	64.7 mg/kg	109 mg/kg	2480 mg/kg	2,480 mg/kg
Mercury	ND	ND	ND	0.0899 mg/kg	.314 mg/kg	0.18 mg/kg	0.73 mg/kg	0.73 mg/kg

Notes:

All results are in mg/kg(PPM) and ug/kg(PPB)

ND = None Detected

NS= Not specified

[1]=16 NYCRR PART 375 Environmental Remediation ProgramsSubparts 375-1 to 375- 4 & 375-6 (December 14, 2006)

TABLE 2

SUMMARY OF ANALYTICAL RESULTS - SOIL SAMPLES
Environmental Site Soil Assessment
580 Gerard Ave
Bronx, NY 10451

						NYSDEC Soil Cleanup Objectives[1]		
Sample ID:	SB-8 (16)	SB-9 (17)	SB-9 (18)	SB-10 (19)	SB-10 (20)	Unrestricted Use	Restricted Use	
Sample Depth:	13-14 Ft	15-16 Ft	2-3Ft	4-5 Ft	6-7 Ft		Residential-Restricted	Commerical
VOC via EPA Method 8260								
Methylene chloride	8.5 ug/kg	11.8 ug/kg	5.7 ug/kg	22 ug/kg	24 ug/kg	500 ug/kg	500 ug/kg	500 ug/kg
Acetone	13.0 ug/kg	11 ug/kg	21 ug/kg	29 ug/kg	23 ug/kg	500 ug/kg	500 ug/kg	500 ug/kg
sec-Butylbenzene	4.8 ug/kg	ND	ND	ND	ND	5000 ug/kg	5000 ug/kg	5000 ug/kg
1,3,5-Trimethylbenzene	9.9 ug/kg	ND	ND	ND	ND	84000 ug/kg	84000 ug/kg	84000 ug/kg
Chloroform	ND	3.8 ug/kg	ND	ND	ND	3,700 ug/kg	3,700 ug/kg	3,700 ug/kg
1,2,4-Trimethylbenzene	7.2 ug/kg	ND	ND	ND	ND	NS	NS	NS
Volatile Organics, Tentatively Identified Cmpds EPA Method 5035A								
1h-indene ISOMERs	34 ug/kg	ND	ND	ND	ND	NS	NS	NS
dimethyl benzene isomers	37 ug/kg	ND	ND	ND	ND	NS	NS	NS
dimethyl Undecane isomer	11 ug/kg	ND	ND	ND	ND	NS	NS	NS
dimethyl Benzene isomer	ND	ND	7.6 ug/kg	ND	ND	NS	NS	NS
Methyl Hexane isomer	ND	ND	7.0 ug/kg	ND	ND	NS	NS	NS
methyl Benzene isomer	16 ug/kg	ND	ND	ND	ND	NS	NS	NS
methylpropyl benzene isomers	48 ug/kg	ND	ND	ND	ND	NS	NS	NS
cyclohexanone isomer	ND	7 ug/kg	ND	ND	ND	NS	NS	NS
dimethyl naphthalene isomers	ND	15 ug/kg	ND	ND	ND	NS	NS	NS
Tetramethyl Benzene isomer	26 ug/kg	ND	ND	ND	ND	NS	NS	NS
SVOCs via EPA Method 8270								
Fluoranthene	65.8 ug/kg	ND	ND	ND	ND	100000 ug/kg	100000 ug/kg	100000 ug/kg
Pyrene	51.2 ug/kg	ND	ND	ND	ND	100000 ug/kg	100000 ug/kg	100000 ug/kg
Anthracene	73.1 ug/kg	ND	ND	ND	55.3 ug/kg	100000 ug/kg	100000 ug/kg	100000 ug/kg
Benzo(a)anthracene	233 ug/kg	ND	ND	80.1 ug/kg	133 ug/kg	1,000 ug/kg	1,000 ug/kg	1,000 ug/kg
Benzo(a)pyrene	236 ug/kg	ND	ND	81.7 ug/kg	125 ug/kg	1,000 ug/kg	1,000 ug/kg	1,000 ug/kg
Benzo(b)fluoranthene	202 ug/kg	ND	ND	66.7 ug/kg	100 ug/kg	1,000 ug/kg	1,000 ug/kg	1,000 ug/kg
Benzo(g,h,i)perylene	150 ug/kg	ND	ND	ND	ND	100000 ug/kg	100000 ug/kg	100000 ug/kg
Benzo(k)fluoranthene	196 ug/kg	ND	ND	63.4 ug/kg	105 ug/kg	1,000 ug/kg	1,000 ug/kg	1,000 ug/kg
Chrysene	226 ug/kg	ND	ND	82.6 ug/kg	159 ug/kg	NS	NS	NS
Fluoranthene	521 ug/kg	ND	ND	173 ug/kg	388 ug/kg	30,000 ug/kg	30,000 ug/kg	30,000 ug/kg
Dibenzo(a,h)anthracene	46.1 ug/kg	ND	ND	ND	ND	3,300 ug/kg	3,300 ug/kg	3,300 ug/kg
Benzo(g,h,i)perylene	ND	ND	ND	ND	68.3 ug/kg	12000 ug/kg	12000 ug/kg	12000 ug/kg
Indeno(1,2,3-cd)pyrene	160 ug/kg	ND	ND	57.5 ug/kg	73.2 ug/kg	500 ug/kg	500 ug/kg	500 ug/kg
Phenanthrene	290 ug/kg	ND	ND	125 ug/kg	382 ug/kg	100000 ug/kg	100000 ug/kg	100000 ug/kg
Pyrene(1)	417 ug/kg	ND	ND	155 ug/kg	316 ug/kg	100000 ug/kg	100000 ug/kg	100000 ug/kg
Polychlorinated Biphenyls (PCB)								
Aroclor 1260	0.0215 mg/kg	ND	ND	ND	ND	NS	NS	NS
Pesticides, 8081 target list								
4,4'-DDD	ND	ND	ND	5.82 ug/kg	ND	3.3 ug/kg	1,800 ug/kg	8,900 ug/kg
4,4'-DDT	ND	ND	ND	29.3 ug/kg	ND	3.3 ug/kg	1,800 ug/kg	8,900 ug/kg
Metals, Target Analyte								
Aluminum	8950 mg/kg	9600 mg/kg	9900 mg/kg	8350 mg/kg	15100 mg/kg	350 mg/kg	400 mg/kg	400 mg/kg

						NYSDEC Soil Cleanup Objectives[1]		
Sample ID:	SB-8 (16)	SB-9 (17)	SB-9 (18)	SB-10 (19)	SB-10 (20)	Unrestricted Use	Restricted Use	
Sample Depth:	13-14 Ft	15-16 Ft	2-3Ft	4-5 Ft	6-7 Ft		Residential-Restricted	Commerical
Arsenic	3.43 mg/kg	ND	2.65 mg/kg	3.15 mg/kg	5.10 mg/kg	30 mg/kg	180 mg/kg	1,500 mg/kg
Barium	70.1 mg/kg	82.5 mg/kg	55.0 mg/kg	133 mg/kg	308 mg/kg	63 mg/kg	400 mg/kg	1,000 mg/kg
Cadmium					0.431 mg/kg	2.5 mg/kg	4.5 mg/kg	4.5 mg/kg
Calcium	5170 mg/kg	6750 mg/kg	1160 mg/kg	8030 mg/kg	7480 mg/kg	NS	NS	NS
Chromium	16.3 mg/kg	23.4 mg/kg	15.8 mg/kg	16.0 mg/kg	28.5 mg/kg	30 mg/kg	36 mg/kg	180 mg/kg
Cobalt	6.62 mg/kg	6.18 mg/kg	5.65 mg/kg	6.84 mg/kg	11.3 mg/kg	30 mg/kg	NS	NS
Copper	27.2 mg/kg	10.8 mg/kg	9.21 mg/kg	25.8 mg/kg	91.9 mg/kg	50 mg/kg	270 mg/kg	270 mg/kg
Iron	12300 mg/kg	12600 mg/kg	11,900 mg/kg	12800 mg/kg	20,800 mg/kg	2,000 mg/kg	NS	NS
Lead	67.9 mg/kg	5.27 mg/kg	7.13 mg/kg	85.8 mg/kg	67 mg/kg	63 mg/kg	400 mg/kg	400 mg/kg
Magnesium	3450 mg/kg	5060 mg/kg	2650 mg/kg	4120 mg/kg	9530 mg/kg	NS	NS	NS
Manganese	264 mg/kg	225 mg/kg	282 mg/kg	239 mg/kg	519 mg/kg	1,600 mg/kg	2,000 mg/kg	2,000 mg/kg
Nickel	15.0 mg/kg	15.7 mg/kg	12.7 mg/kg	16.1 mg/kg	22 mg/kg	30 mg/kg	130 mg/kg	130 mg/kg
Potassium	1490 mg/kg	2620 mg/kg	1330 mg/kg	2100 mg/kg	4760 mg/kg	NS	NS	NS
Sodium	180 mg/kg	170 mg/kg	156 mg/kg	183 mg/kg	302 mg/kg	NS	NS	NS
Vanadium	20.2 mg/kg	21.8 mg/kg	18.1 mg/kg	20.3 mg/kg	35.6 mg/kg	100 mg/kg	NS	NS
Zinc	76.8 mg/kg	35.5 mg/kg	28.7 mg/kg	73.2 mg/kg	98.8 mg/kg	109 mg/kg	2480 mg/kg	2,480 mg/kg
Mercury	0.424 mg/kg	ND	0.0466 mg/kg	0.266 mg/kg	0.0516 mg/kg	0.18 mg/kg	0.73 mg/kg	0.73 mg/kg

Notes:
All results are in mg/kg(PPM) and ug/kg(PPB)
ND = None Detected
NS= Not specified

[1]=16 NYCRR PART 375 Environmental Remediation ProgramsSubparts 375-1 to 375- 4 & 375-6 (December 14, 2006)

TABLE 2

SUMMARY OF ANALYTICAL RESULTS - SOIL SAMPLES

Environmental Site Soil Assessment

580 Gerard Ave

Bronx, NY 10451

						NYSDEC Soil Cleanup Objectives[1]		
Sample ID:	SB-11 (21)	SB-11 (22)	SB-12 (23)	SB-12 (24)	SB-13 (25)	Unrestricted Use	Restricted Use	
Sample Depth:	8-9 Ft	10-11 Ft	12-13Ft	14-15 Ft	3-4 Ft		Residential-Restricted	Commerical
VOC via EPA Method 8260								
Methylene chloride	ND	ND	9 ug/kg	ND	8.5 ug/kg	500 ug/kg	500 ug/kg	500 ug/kg
Acetone	35 ug/kg	60 ug/kg	86 ug/kg	31 ug/kg	25 ug/kg	5000 ug/kg	5,000 ug/kg	5000 ug/kg
sec-Butylbenzene	ND	ND	ND	ND	ND	5000 ug/kg	5000 ug/kg	5000 ug/kg
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8400 ug/kg	8400 ug/kg	8400 ug/kg
Chloroform	ND	ND	ND	ND	3.5 ug/kg	3,700 ug/kg	3,700 ug/kg	3,700 ug/kg
1,2,4-Trimethylbenzene	ND	ND	ND	8.1 ug/kg	ND	NS	NS	NS
Volatile Organics, Tentatively Identified Cmpds EPA Method 5035A								
1h-indene ISOMERs	ND	ND	ND	ND	ND	NS	NS	NS
dimethyl benzene isomers	ND	ND	ND	ND	ND	NS	NS	NS
dimethyl Undecane isomer	ND	ND	ND	ND	ND	NS	NS	NS
methylethyl benzene isomer	ND	ND	ND	ND	8.1 ug/kg	NS	NS	NS
dimethyl Benzene isomer	ND	ND	ND	ND	ND	NS	NS	NS
Methyl Hexane isomer	ND	ND	ND	ND	ND	NS	NS	NS
methyl Benzene isomer	ND	ND	ND	ND	ND	NS	NS	NS
methylpropyl benzene isomers	ND	ND	ND	ND	22 ug/kg	NS	NS	NS
cyclohexanone isomer	ND	ND	ND	ND	ND	NS	NS	NS
dimethyl naphthalene isomers	ND	ND	ND	ND	ND	NS	NS	NS
Tetramethyl Benzene isomer	ND	ND	ND	ND	15 ug/kg	NS	NS	NS
butyltoluene isomer	ND	ND	ND	ND	10 ug/kg	NS	NS	NS
SVOCs via EPA Method 8270								
Fluoranthene	ND	ND	ND	ND	ND	1,000 ug/kg	1,000 ug/kg	1,000 ug/kg
1,1-Biphenyl	ND	ND	336 ug/kg	ND	ND	1,000 ug/kg	1,000 ug/kg	1,000 ug/kg
2-Methylnaphthalene	ND	ND	1200 ug/kg	86.3 ug/kg	ND	NS	NS	NS
Pyrene	ND	ND	ND	ND	ND	100000 ug/kg	100000 ug/kg	100000 ug/kg
Acenaphthylene	ND	46.8 ug/kg	3440 ug/kg	81.3 ug/kg	81.3 ug/kg	20000 ug/kg	20000 ug/kg	20000 ug/kg
Acenaphthene	ND	60.2 ug/kg	195 ug/kg	51.4 ug/kg	51.4 ug/kg	100000 ug/kg	100000 ug/kg	100000 ug/kg
Anthracene	ND	185 ug/kg	10,300 ug/kg	263 ug/kg	263 ug/kg	100000 ug/kg	100000 ug/kg	100000 ug/kg
Benzo(a)anthracene	90.2 ug/kg	422 ug/kg	14,800 ug/kg	965 ug/kg	965 ug/kg	1,000 ug/kg	1,000 ug/kg	1,000 ug/kg
Bis(2-ethylhexyl)phthalate	71.8 ug/kg	134 ug/kg	110 ug/kg	ND	ND	50000 ug/kg	50000 ug/kg	50000 ug/kg
Benzo(a)pyrene	78.8 ug/kg	381 ug/kg	12,100 ug/kg	941 ug/kg	941 ug/kg	1,000 ug/kg	1,000 ug/kg	1,000 ug/kg
Benzo(b)fluoranthene	71.5 ug/kg	311 ug/kg	9,650 ug/kg	105 ug/kg	105 ug/kg	1,000 ug/kg	1,000 ug/kg	1,000 ug/kg
Benzo(g,h,i)perylene	55.2 ug/kg	381 ug/kg	5830 ug/kg	523 ug/kg	523 ug/kg	100000 ug/kg	100000 ug/kg	100000 ug/kg
Benzo(k)fluoranthene	59.3 ug/kg	281 ug/kg	9460 ug/kg	694 ug/kg	694 ug/kg	1,000 ug/kg	1,000 ug/kg	1,000 ug/kg
Benzyl butyl phthalate	ND	ND	ND	ND	ND	NS	NS	NS
Carbazole	ND	50.2 ug/kg	2940 ug/kg	85.2 ug/kg	85.2 ug/kg	NS	NS	NS
Chrysene	89.3 ug/kg	389 ug/kg	12,800 ug/kg	876 ug/kg	876 ug/kg	1,000 ug/kg	1,000 ug/kg	1,000 ug/kg
Fluoranthene	204 ug/kg	1030 ug/kg	38300 ug/kg	2050 ug/kg	2050 ug/kg	100000 ug/kg	100000 ug/kg	100000 ug/kg
Dimethyl phthalate	136 ug/kg	126 ug/kg	119 ug/kg	92.8 ug/kg	92.8 ug/kg	NS	NS	NS
Fluorene	ND	69.8 ug/kg	4040 ug/kg	76.0 ug/kg	76.0 ug/kg	30,000 ug/kg	30,000 ug/kg	30,000 ug/kg
Dibenzo(a,h)anthracene	ND	78.8 ug/kg	2690 ug/kg	200 ug/kg	200 ug/kg	3,300 ug/kg	3,300 ug/kg	3,300 ug/kg
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	100000 ug/kg	100000 ug/kg	100000 ug/kg

						NYSDEC Soil Cleanup Objectives[1]		
Sample ID:	SB-11 (21)	SB-11 (22)	SB-12 (23)	SB-12 (24)	SB-13 (25)	Unrestricted Use	Restricted Use	
Sample Depth:	8-9 Ft	10-11 Ft	12-13Ft	14-15 Ft	3-4 Ft		Residential-Restricted	Commerical
Dibenzofuran	ND	56.5 ug/kg	3360 ug/kg	ND	ND	NS	NS	NS
Naphthalene	ND	ND	1710 ug/kg	ND	ND	12000 ug/kg	12000 ug/kg	12000 ug/kg
Indeno(1,2,3-cd)pyrene		186 ug/kg	5910 ug/kg	524 ug/kg	ND	500 ug/kg	500 ug/kg	500 ug/kg
Phenanthrene	146 ug/kg	783 ug/kg	38300 ug/kg	1160 ug/kg	ND	100000 ug/kg	100000 ug/kg	100000 ug/kg
Pyrene(1)	166 ug/kg	892 ug/kg	26700 ug/kg	2020 ug/kg	ND	100000 ug/kg	100000 ug/kg	100000 ug/kg
Polychlorinated Biphenyls (PCB)								
Aroclor 1260	ND	ND	ND	ND	ND	NS	NS	NS
Pesticides, 8081 target list								
4,4'-DDE	ND	ND	ND	ND	29.3 ug/kg	3.3 ug/kg	1,800 ug/kg	8,900 ug/kg
4,4'-DDT	ND	ND	ND	ND	39.1 ug/kg	3.3 ug/kg	1,800 ug/kg	8,900 ug/kg
Metals, Target Analyte								
Aluminum	21100 mg/kg	9460 mg/kg	7090 mg/kg	7440 mg/kg	9820 mg/kg	NS	NS	NS
Antimony	ND	ND	ND	6.54 mg/kg	ND	NS	NS	NS
Arsenic	2.56 mg/kg	2.64 mg/kg	11.8 mg/kg	3.28 mg/kg	12.0 mg/kg	13 mg/kg	16 mg/kg	16 mg/kg
Barium	125 mg/kg	87.9 mg/kg	171 mg/kg	62.4 mg/kg	284 mg/kg	350 mg/kg	350 mg/kg	400 mg/kg
Cadmium	0.504 mg/kg	ND	0.839 mg/kg	ND	1.06 mg/kg	2.5 mg/kg	4.5 mg/kg	4.5 mg/kg
Calcium	24300 mg/kg	44,900 mg/kg	51,400 mg/kg	1930 mg/kg	12900 mg/kg	NS	NS	NS
Chromium	16.7 mg/kg	32.4 mg/kg	23.8 mg/kg	15.5 mg/kg	27.9 mg/kg	30 mg/kg	36 mg/kg	180 mg/kg
Cobalt	22.1 mg/kg	9.57 mg/kg	8.39 mg/kg	6.40 mg/kg	12.2 mg/kg	30 mg/kg	NS	NS
Copper	14.3 mg/kg	18.2 mg/kg	198 mg/kg	32.3 mg/kg	359 mg/kg	50 mg/kg	270 mg/kg	270 mg/kg
Iron	26,500 mg/kg	17,900 mg/kg	16,700 mg/kg	17400 mg/kg	17,400 mg/kg	2,000 mg/kg	NS	NS
Lead	37.4 mg/kg	24.3 mg/kg	521 mg/kg	663 mg/kg	492 mg/kg	63 mg/kg	400 mg/kg	400 mg/kg
Magnesium	16,000 mg/kg	28,800 mg/kg	3850 mg/kg	2970 mg/kg	4350 mg/kg	NS	NS	NS
Manganese	370 mg/kg	302 mg/kg	209 mg/kg	355 mg/kg	334 mg/kg	1,600 mg/kg	2,000 mg/kg	2,000 mg/kg
Nickel	25.7 mg/kg	24.4 mg/kg	24 mg/kg	14.9 mg/kg	31.3 mg/kg	30 mg/kg	130 mg/kg	130 mg/kg
Selenium						3.9 mg/kg	4 mg/kg	4 mg/kg
Potassium	3830 mg/kg	3250 mg/kg	1070 mg/kg	1600 mg/kg	1380 mg/kg	NS	NS	NS
Sodium	1390 mg/kg	251 mg/kg	412 mg/kg	170 mg/kg	399 mg/kg	NS	NS	NS
Vanadium	71.1 mg/kg	34.6 mg/kg	28.2 mg/kg	17.8 mg/kg	30.2 mg/kg	100 mg/kg	NS	NS
Zinc	74.8 mg/kg	74.3 mg/kg	352 mg/kg	60.2 mg/kg	493 mg/kg	109 mg/kg	2480 mg/kg	2,480 mg/kg
Mercury	0.0416 mg/kg	0.182 mg/kg	1.71 mg/kg	0.0561 mg/kg	2.29 mg/kg	0.18 mg/kg	0.73 mg/kg	0.73 mg/kg

Notes:
All results are in mg/kg(PPM) and ug/kg(PPB)
ND = None Detected
NS= Not specified
[1]=16 NYCRR PART 375 Environmental Remediation ProgramsSubparts 375-1 to 375- 4 & 375-6 (December 14, 2006)

LABORATORY RESULTS

Technical Report

prepared for:

DPV Consultants Inc
19 West 36th St. 9th Floor
New York NY, 10018
Attention: Anthony Rizvi

Report Date: 01/16/2020
Client Project ID: 580 Gerard Ave.
York Project (SDG) No.: 20A0318

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

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

Report Date: 01/16/2020
Client Project ID: 580 Gerard Ave.
York Project (SDG) No.: 20A0318

DPV Consultants Inc
19 West 36th St. 9th Floor
New York NY, 10018
Attention: Anthony Rizvi

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on January 09, 2020 with a temperature of 3.7 C. The project was identified as your project: **580 Gerard Ave.**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
20A0318-01	Soil Boring 6 (6-7feet)-11	Soil	01/02/2020	01/09/2020
20A0318-02	Soil Boring 6 (6-7feet)-11 VOC	Soil	01/02/2020	01/09/2020
20A0318-03	Soil Boring 6 (7-8feet)-12	Soil	01/02/2020	01/09/2020
20A0318-04	Soil Boring 6 (7-8feet)-12 VOC	Soil	01/02/2020	01/09/2020
20A0318-05	Soil Boring 7 (9-10feet)-13	Soil	01/03/2020	01/09/2020
20A0318-06	Soil Boring 7 (9-10feet)-13 VOC	Soil	01/03/2020	01/09/2020
20A0318-07	Soil Boring 7 (10-11feet)-14	Soil	01/03/2020	01/09/2020
20A0318-08	Soil Boring 7 (10-11feet)-14 VOC	Soil	01/03/2020	01/09/2020
20A0318-09	Soil Boring 8 (11-12feet)-15	Soil	01/03/2020	01/09/2020
20A0318-10	Soil Boring 8 (11-12feet)-15 VOC	Soil	01/03/2020	01/09/2020
20A0318-11	Soil Boring 8 (13-14feet)-16	Soil	01/03/2020	01/09/2020
20A0318-12	Soil Boring 8 (13-14feet)-16 VOC	Soil	01/03/2020	01/09/2020
20A0318-13	Soil Boring 9 (15-16feet)-17	Soil	01/03/2020	01/09/2020
20A0318-14	Soil Boring 9 (15-16feet)-17 VOC	Soil	01/03/2020	01/09/2020
20A0318-15	Soil Boring 9 (2-3feet)-18	Soil	01/06/2020	01/09/2020
20A0318-16	Soil Boring 9 (2-3feet)-18 VOC	Soil	01/06/2020	01/09/2020
20A0318-17	Soil Boring 10 (4-5feet)-19	Soil	01/06/2020	01/09/2020
20A0318-18	Soil Boring 10 (4-5feet)-19 VOC	Soil	01/06/2020	01/09/2020
20A0318-19	Soil Boring 10 (6-7feet)-20	Soil	01/06/2020	01/09/2020
20A0318-20	Soil Boring 10 (6-7feet)-20 VOC	Soil	01/06/2020	01/09/2020
20A0318-21	Soil Boring 1 (2-3feet)-1	Soil	12/30/2019	01/09/2020
20A0318-22	Soil Boring 1 (2-3feet)-1 VOC	Soil	12/30/2019	01/09/2020

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
20A0318-23	Soil Boring 2 (4-5feet)-2	Soil	12/30/2019	01/09/2020
20A0318-24	Soil Boring 2 (4-5feet)-2 VOC	Soil	12/30/2019	01/09/2020
20A0318-25	Soil Boring 2 (6-7feet)-3	Soil	12/30/2019	01/09/2020
20A0318-26	Soil Boring 2 (6-7feet)-3 VOC	Soil	12/30/2019	01/09/2020
20A0318-27	Soil Boring 3 (7-8feet)-4	Soil	12/31/2019	01/09/2020
20A0318-28	Soil Boring 3 (7-8feet)-4 VOC	Soil	12/31/2019	01/09/2020
20A0318-29	Soil Boring 3 (9-10feet)-5	Soil	12/31/2019	01/09/2020
20A0318-30	Soil Boring 3 (9-10feet)-5 VOC	Soil	12/31/2019	01/09/2020
20A0318-31	Soil Boring 3 (11-12feet)-6	Soil	01/02/2020	01/09/2020
20A0318-32	Soil Boring 3 (11-12feet)-6 VOC	Soil	01/02/2020	01/09/2020
20A0318-33	Soil Boring 4 (13-14feet)-7	Soil	01/02/2020	01/09/2020
20A0318-34	Soil Boring 4 (13-14feet)-7 VOC	Soil	01/02/2020	01/09/2020
20A0318-35	Soil Boring 4 (15-16feet)-8	Soil	01/02/2020	01/09/2020
20A0318-36	Soil Boring 4 (15-16feet)-8 VOC	Soil	01/02/2020	01/09/2020
20A0318-37	Soil Boring 5 (2-3feet)-9	Soil	01/02/2020	01/09/2020
20A0318-38	Soil Boring 5 (2-3feet)-9 VOC	Soil	01/02/2020	01/09/2020
20A0318-39	Soil Boring 5 (9-5feet)-10	Soil	01/02/2020	01/09/2020
20A0318-40	Soil Boring 5 (9-5feet)-10 VOC	Soil	01/02/2020	01/09/2020
20A0318-41	Soil Boring 11 (8-9feet)-21	Soil	01/06/2020	01/09/2020
20A0318-42	Soil Boring 11 (8-9feet)-21 VOC	Soil	01/06/2020	01/09/2020
20A0318-43	Soil Boring 11 (10-11feet)-22	Soil	01/06/2020	01/09/2020
20A0318-44	Soil Boring 11 (10-11feet)-22 VOC	Soil	01/06/2020	01/09/2020
20A0318-45	Soil Boring 12 (12-13feet)-23	Soil	01/06/2020	01/09/2020
20A0318-46	Soil Boring 12 (12-13feet)-23 VOC	Soil	01/06/2020	01/09/2020
20A0318-47	Soil Boring 12 (14-15feet)-24	Soil	01/06/2020	01/09/2020
20A0318-48	Soil Boring 12 (14-15feet)-24 VOC	Soil	01/06/2020	01/09/2020
20A0318-49	Soil Boring 13 (3-4feet)-25	Soil	01/06/2020	01/09/2020
20A0318-50	Soil Boring 13 (3-4feet)-25 VOC	Soil	01/06/2020	01/09/2020

General Notes for York Project (SDG) No.: 20A0318

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:

Date: 01/16/2020

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **Soil Boring 6 (6-7feet)-11** **York Sample ID:** **20A0318-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 3:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	95.6	191	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	95.6	191	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	95.6	191	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
95-57-8	2-Chlorophenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
95-48-7	2-Methylphenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
88-74-4	2-Nitroaniline	ND		ug/kg dry	95.6	191	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW

Sample Information

Client Sample ID: **Soil Boring 6 (6-7feet)-11** **York Sample ID:** **20A0318-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 3:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-75-5	2-Nitrophenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		ug/kg dry	95.6	191	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	95.6	191	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-01-6	4-Nitroaniline	ND		ug/kg dry	95.6	191	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		ug/kg dry	95.6	191	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
83-32-9	Acenaphthene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	Acenaphthylene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
62-53-3	Aniline	ND		ug/kg dry	192	383	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-12-7	Anthracene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1912-24-9	Atrazine	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	192	383	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,PADEP		
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 6 (6-7feet)-11** **York Sample ID:** **20A0318-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 3:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65-85-0	Benzoic acid	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-51-6	Benzyl alcohol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-60-2	Caprolactam	ND		ug/kg dry	95.6	191	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
86-74-8	Carbazole	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	Chrysene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	Dibenzofuran	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	**Fluoranthene**	**65.8**	J	ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	Fluorene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D	01/13/2020 13:45	01/14/2020 10:55	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 6 (6-7feet)-11** **York Sample ID:** **20A0318-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 3:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
118-74-1	Hexachlorobenzene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
67-72-1	Hexachloroethane	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
78-59-1	Isophorone	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
91-20-3	Naphthalene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
98-95-3	Nitrobenzene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
85-01-8	Phenanthrene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
108-95-2	Phenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW
129-00-0	**Pyrene**	**51.2**	J	ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 10:55	OW

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*67.5 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*72.9 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*75.6 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*75.5 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*76.6 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*83.5 %*	*24-116*

Sample Information

Client Sample ID: **Soil Boring 6 (6-7feet)-11** **York Sample ID:** **20A0318-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 3:00 pm	01/09/2020

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 10:55	OW

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:17	CM
72-55-9	4,4'-DDE	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:17	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:17	CM
309-00-2	Aldrin	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:17	CM
319-84-6	alpha-BHC	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:17	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 13:40	01/14/2020 17:17	CM
319-85-7	beta-BHC	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:17	CM
57-74-9	Chlordane, total	ND		ug/kg dry	37.8	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:17	CM
319-86-8	delta-BHC	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:17	CM
60-57-1	Dieldrin	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:17	CM
959-98-8	Endosulfan I	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:17	CM
33213-65-9	Endosulfan II	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	01/13/2020 13:40	01/14/2020 17:17	CM
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:17	CM
72-20-8	Endrin	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:17	CM
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:17	CM
53494-70-5	Endrin ketone	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:17	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:17	CM

Sample Information

Client Sample ID: **Soil Boring 6 (6-7feet)-11** **York Sample ID:** **20A0318-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 3:00 pm	01/09/2020

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 13:40	01/14/2020 17:17	CM
76-44-8	Heptachlor	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:17	CM
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:17	CM
72-43-5	Methoxychlor	ND		ug/kg dry	9.46	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:17	CM
8001-35-2	Toxaphene	ND		ug/kg dry	95.8	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:17	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*55.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*66.2 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:51	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:51	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:51	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:51	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:51	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:51	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:51	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications:	01/13/2020 13:40	01/15/2020 14:51	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*79.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*72.5 %*	*30-140*

Sample Information

Client Sample ID: **Soil Boring 6 (6-7feet)-11** **York Sample ID:** **20A0318-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 3:00 pm	01/09/2020

Metals, Target Analyte **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**6330**		mg/kg dry	5.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:35	JAM
7440-36-0	Antimony	ND		mg/kg dry	2.90	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:35	JAM
7440-38-2	**Arsenic**	**1.82**		mg/kg dry	1.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:35	JAM
7440-39-3	**Barium**	**42.1**		mg/kg dry	2.90	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:35	JAM
7440-41-7	Beryllium	ND		mg/kg dry	0.058	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:35	JAM
7440-43-9	Cadmium	ND		mg/kg dry	0.347	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:35	JAM
7440-70-2	**Calcium**	**40700**		mg/kg dry	5.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:35	JAM
7440-47-3	**Chromium**	**32.5**		mg/kg dry	0.579	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:35	JAM
7440-48-4	**Cobalt**	**5.21**		mg/kg dry	0.463	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:35	JAM
7440-50-8	**Copper**	**28.2**		mg/kg dry	2.32	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:35	JAM
7439-89-6	**Iron**	**11900**		mg/kg dry	29.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:35	JAM
7439-92-1	**Lead**	**111**		mg/kg dry	0.579	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:35	JAM
7439-95-4	**Magnesium**	**25500**		mg/kg dry	5.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:35	JAM
7439-96-5	**Manganese**	**169**		mg/kg dry	0.579	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:35	JAM
7440-02-0	**Nickel**	**11.0**		mg/kg dry	1.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:35	JAM
7440-09-7	**Potassium**	**1460**	B	mg/kg dry	5.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:35	JAM
7782-49-2	Selenium	ND		mg/kg dry	2.90	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:35	JAM
7440-22-4	Silver	ND		mg/kg dry	0.579	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:35	JAM
7440-23-5	**Sodium**	**323**		mg/kg dry	57.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:35	JAM
7440-28-0	Thallium	ND		mg/kg dry	2.90	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:35	JAM
7440-62-2	**Vanadium**	**27.7**		mg/kg dry	1.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:35	JAM
7440-66-6	**Zinc**	**78.4**		mg/kg dry	2.90	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:35	JAM

Sample Information

Client Sample ID: **Soil Boring 6 (6-7feet)-11** **York Sample ID:** **20A0318-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 3:00 pm	01/09/2020

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0347	1	EPA 7473	01/10/2020 12:00	01/10/2020 12:24	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.579	1	EPA 9014/9010C	01/10/2020 08:48	01/10/2020 15:42	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**86.3**		%	0.100	1	SM 2540G	01/14/2020 15:51	01/15/2020 10:22	JAG
							Certifications: CTDOH			

Sample Information

Client Sample ID: **Soil Boring 6 (6-7feet)-11 VOC** **York Sample ID:** **20A0318-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 3:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			

Sample Information

Client Sample ID: **Soil Boring 6 (6-7feet)-11 VOC** **York Sample ID:** **20A0318-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 3:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
123-91-1	1,4-Dioxane	ND		ug/kg dry	53	110	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
591-78-6	2-Hexanone	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
67-64-1	**Acetone**	**9.3**	J	ug/kg dry	5.3	11	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-02-8	Acrolein	ND		ug/kg dry	5.3	11	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-13-1	Acrylonitrile	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 00:34	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

Sample Information

Client Sample ID: **Soil Boring 6 (6-7feet)-11 VOC** **York Sample ID:** **20A0318-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 3:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
74-97-5	Bromochloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 00:34	LLJ
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
75-25-2	Bromoform	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
74-83-9	Bromomethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
75-15-0	Carbon disulfide	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
75-00-3	Chloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
74-87-3	Chloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
110-82-7	Cyclohexane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 00:34	LLJ
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 00:34	LLJ
74-95-3	Dibromomethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 00:34	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 00:34	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 00:34	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
79-20-9	Methyl acetate	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 00:34	LLJ

Sample Information

Client Sample ID: **Soil Boring 6 (6-7feet)-11 VOC** **York Sample ID:** **20A0318-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 3:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 00:34	LLJ
75-09-2	**Methylene chloride**	**8.5**	J	ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 00:34	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 00:34	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
100-42-5	Styrene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 00:34	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH	01/14/2020 06:47	01/15/2020 00:34	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.9	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 00:34	LLJ

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: **Soil Boring 6 (6-7feet)-11 VOC** **York Sample ID:** **20A0318-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 3:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*102 %*			*77-125*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*96.4 %*			*85-120*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*			*76-130*						

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:47	01/15/2020 00:34	LLJ

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**94.6**		%	0.100	1	SM 2540G Certifications: CTDOH	01/16/2020 16:38	01/16/2020 16:44	WL

Sample Information

Client Sample ID: **Soil Boring 6 (7-8feet)-12** **York Sample ID:** **20A0318-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 am	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	100	200	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW

Sample Information

Client Sample ID: **Soil Boring 6 (7-8feet)-12** **York Sample ID:** **20A0318-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	100	200	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	100	200	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
95-57-8	2-Chlorophenol	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
95-48-7	2-Methylphenol	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
88-74-4	2-Nitroaniline	ND		ug/kg dry	100	200	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
88-75-5	2-Nitrophenol	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
99-09-2	3-Nitroaniline	ND		ug/kg dry	100	200	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	100	200	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW

Sample Information

Client Sample ID: **Soil Boring 6 (7-8feet)-12** **York Sample ID:** **20A0318-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-01-6	4-Nitroaniline	ND		ug/kg dry	100	200	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		ug/kg dry	100	200	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
83-32-9	Acenaphthene	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	Acenaphthylene	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
62-53-3	Aniline	ND		ug/kg dry	200	401	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-12-7	Anthracene	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1912-24-9	Atrazine	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	200	401	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,PADEP		
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65-85-0	Benzoic acid	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-51-6	Benzyl alcohol	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 6 (7-8feet)-12** **York Sample ID:** **20A0318-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-60-2	Caprolactam	ND		ug/kg dry	100	200	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
86-74-8	Carbazole	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	Chrysene	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	Dibenzofuran	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	Fluoranthene	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	Fluorene	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
118-74-1	Hexachlorobenzene	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
67-72-1	Hexachloroethane	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		ug/kg dry	50.2	100	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:26	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 6 (7-8feet)-12** **York Sample ID:** **20A0318-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 am	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
98-95-3	Nitrobenzene	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
85-01-8	Phenanthrene	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
108-95-2	Phenol	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW
129-00-0	Pyrene	ND		ug/kg dry	50.2	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:26	OW

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*76.8 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*75.7 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*85.7 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*78.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*86.7 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*87.2 %*	*24-116*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 11:26	OW

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:34	CM

Sample Information

Client Sample ID: **Soil Boring 6 (7-8feet)-12** **York Sample ID:** **20A0318-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 am	01/09/2020

Pesticides, 8081 target list **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-55-9	4,4'-DDE	ND		ug/kg dry	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:34	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:34	CM
309-00-2	Aldrin	ND		ug/kg dry	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:34	CM
319-84-6	alpha-BHC	ND		ug/kg dry	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:34	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.95	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 13:40	01/14/2020 17:34	CM
319-85-7	beta-BHC	ND		ug/kg dry	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:34	CM
57-74-9	Chlordane, total	ND		ug/kg dry	39.1	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:34	CM
319-86-8	delta-BHC	ND		ug/kg dry	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:34	CM
60-57-1	Dieldrin	ND		ug/kg dry	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:34	CM
959-98-8	Endosulfan I	ND		ug/kg dry	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:34	CM
33213-65-9	Endosulfan II	ND		ug/kg dry	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	01/13/2020 13:40	01/14/2020 17:34	CM
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:34	CM
72-20-8	Endrin	ND		ug/kg dry	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:34	CM
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:34	CM
53494-70-5	Endrin ketone	ND		ug/kg dry	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:34	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:34	CM
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.95	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 13:40	01/14/2020 17:34	CM
76-44-8	Heptachlor	ND		ug/kg dry	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:34	CM
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.95	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:34	CM
72-43-5	Methoxychlor	ND		ug/kg dry	9.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:34	CM
8001-35-2	Toxaphene	ND		ug/kg dry	98.9	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:34	CM

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: **Soil Boring 6 (7-8feet)-12** **York Sample ID:** **20A0318-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 am	01/09/2020

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2051-24-3	*Surrogate: Decachlorobiphenyl*	*39.6 %*			*30-150*					
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*46.1 %*			*30-150*					

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:04	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:04	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:04	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:04	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:04	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:04	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:04	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications:	01/13/2020 13:40	01/15/2020 15:04	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*48.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*43.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**5960**		mg/kg dry	6.02	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:53	JAM
7440-36-0	Antimony	ND		mg/kg dry	3.01	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:53	JAM
7440-38-2	**Arsenic**	**1.93**		mg/kg dry	1.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:53	JAM
7440-39-3	**Barium**	**43.2**		mg/kg dry	3.01	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:53	JAM
7440-41-7	Beryllium	ND		mg/kg dry	0.060	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:53	JAM

Sample Information

Client Sample ID: **Soil Boring 6 (7-8feet)-12** **York Sample ID:** **20A0318-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 am	01/09/2020

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		mg/kg dry	0.361	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:53	JAM
7440-70-2	**Calcium**	**1440**		mg/kg dry	6.02	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:53	JAM
7440-47-3	**Chromium**	**11.7**		mg/kg dry	0.602	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:53	JAM
7440-48-4	**Cobalt**	**5.37**		mg/kg dry	0.482	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:53	JAM
7440-50-8	**Copper**	**19.1**		mg/kg dry	2.41	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:53	JAM
7439-89-6	**Iron**	**10900**		mg/kg dry	30.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:53	JAM
7439-92-1	**Lead**	**5.13**		mg/kg dry	0.602	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:53	JAM
7439-95-4	**Magnesium**	**2590**		mg/kg dry	6.02	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:53	JAM
7439-96-5	**Manganese**	**256**		mg/kg dry	0.602	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:53	JAM
7440-02-0	**Nickel**	**10.7**		mg/kg dry	1.20	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:53	JAM
7440-09-7	**Potassium**	**1320**	B	mg/kg dry	6.02	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:53	JAM
7782-49-2	Selenium	ND		mg/kg dry	3.01	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:53	JAM
7440-22-4	Silver	ND		mg/kg dry	0.602	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:53	JAM
7440-23-5	**Sodium**	**133**		mg/kg dry	60.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:53	JAM
7440-28-0	Thallium	ND		mg/kg dry	3.01	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:53	JAM
7440-62-2	**Vanadium**	**17.3**		mg/kg dry	1.20	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:53	JAM
7440-66-6	**Zinc**	**24.9**		mg/kg dry	3.01	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 15:53	JAM

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0361	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	01/10/2020 12:00	01/10/2020 12:33	SY

Sample Information

Client Sample ID: **Soil Boring 6 (7-8feet)-12** **York Sample ID:** **20A0318-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 am	01/09/2020

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.602	1	EPA 9014/9010C	01/10/2020 08:48	01/10/2020 15:42	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**83.0**		%	0.100	1	SM 2540G	01/14/2020 15:51	01/15/2020 10:22	JAG
							Certifications: CTDOH			

Sample Information

Client Sample ID: **Soil Boring 6 (7-8feet)-12 VOC** **York Sample ID:** **20A0318-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/15/2020 06:16	01/15/2020 13:55	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/15/2020 06:16	01/15/2020 13:55	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/15/2020 06:16	01/15/2020 13:55	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/15/2020 06:16	01/15/2020 13:55	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/15/2020 06:16	01/15/2020 13:55	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/15/2020 06:16	01/15/2020 13:55	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/15/2020 06:16	01/15/2020 13:55	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/15/2020 06:16	01/15/2020 13:55	LLJ
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE			
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/15/2020 06:16	01/15/2020 13:55	LLJ
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP			

Sample Information

Client Sample ID: **Soil Boring 6 (7-8feet)-12 VOC** **York Sample ID:** **20A0318-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 13:55	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	52	100	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 13:55	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
591-78-6	2-Hexanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
67-64-1	**Acetone**	**11**		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
107-02-8	Acrolein	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
107-13-1	Acrylonitrile	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
74-97-5	Bromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 13:55	LLJ
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
75-25-2	Bromoform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ

Sample Information

Client Sample ID: **Soil Boring 6 (7-8feet)-12 VOC** **York Sample ID:** **20A0318-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
75-15-0	Carbon disulfide	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
75-00-3	Chloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
74-87-3	Chloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
110-82-7	Cyclohexane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/15/2020 06:16	01/15/2020 13:55	LLJ
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/15/2020 06:16	01/15/2020 13:55	LLJ
74-95-3	Dibromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/15/2020 06:16	01/15/2020 13:55	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/15/2020 06:16	01/15/2020 13:55	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/15/2020 06:16	01/15/2020 13:55	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
79-20-9	Methyl acetate	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/15/2020 06:16	01/15/2020 13:55	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/15/2020 06:16	01/15/2020 13:55	LLJ
75-09-2	**Methylene chloride**	**7.1**	J	ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ

Sample Information

Client Sample ID: **Soil Boring 6 (7-8feet)-12 VOC** **York Sample ID:** **20A0318-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/15/2020 06:16	01/15/2020 13:55	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/15/2020 06:16	01/15/2020 13:55	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
100-42-5	Styrene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 13:55	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH	01/15/2020 06:16	01/15/2020 13:55	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.9	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 13:55	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*106 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.6 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*76-130*

Sample Information

Client Sample ID: **Soil Boring 6 (7-8feet)-12 VOC** **York Sample ID:** **20A0318-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 am	01/09/2020

Volatile Organics, Tentatively Identified Cmpds. **Log-in Notes:** **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/kg dry			1	EPA 8260C Certifications:	01/15/2020 06:16	01/15/2020 13:55	LLJ

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**95.3**		%	0.100	1	SM 2540G Certifications: CTDOH	01/16/2020 16:38	01/16/2020 16:44	WL

Sample Information

Client Sample ID: **Soil Boring 7 (9-10feet)-13** **York Sample ID:** **20A0318-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 10:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:58	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	94.2	188	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:58	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:58	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 11:58	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:58	OW
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 11:58	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 11:58	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	94.2	188	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:58	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:58	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:58	OW

Sample Information

Client Sample ID: **Soil Boring 7 (9-10feet)-13** **York Sample ID:** **20A0318-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 10:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	94.2	188	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-57-8	2-Chlorophenol	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		ug/kg dry	94.2	188	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		ug/kg dry	94.2	188	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	94.2	188	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-01-6	4-Nitroaniline	ND		ug/kg dry	94.2	188	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		ug/kg dry	94.2	188	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 7 (9-10feet)-13** **York Sample ID:** **20A0318-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 10:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	Acenaphthylene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
62-53-3	Aniline	ND		ug/kg dry	189	377	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-12-7	Anthracene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1912-24-9	Atrazine	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	189	377	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,PADEP		
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65-85-0	Benzoic acid	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-51-6	Benzyl alcohol	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-60-2	Caprolactam	ND		ug/kg dry	94.2	188	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 7 (9-10feet)-13** **York Sample ID:** **20A0318-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 10:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-74-8	Carbazole	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	Chrysene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	Dibenzofuran	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	Fluoranthene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	Fluorene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
118-74-1	Hexachlorobenzene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
67-72-1	Hexachloroethane	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	Naphthalene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-95-3	Nitrobenzene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	47.2	94.2	2	EPA 8270D	01/13/2020 13:45	01/14/2020 11:58	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 7 (9-10feet)-13** **York Sample ID:** **20A0318-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 10:00 am	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-86-5	Pentachlorophenol	ND		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:58	OW
85-01-8	Phenanthrene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:58	OW
108-95-2	Phenol	ND		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:58	OW
129-00-0	Pyrene	ND		ug/kg dry	47.2	94.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 11:58	OW

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*75.5 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*80.7 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*87.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*81.7 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*83.1 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*86.6 %*	*24-116*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 11:58	OW

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:51	CM
72-55-9	4,4'-DDE	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:51	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:51	CM
309-00-2	Aldrin	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:51	CM
319-84-6	alpha-BHC	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 17:51	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 13:40	01/14/2020 17:51	CM

Sample Information

Client Sample ID: **Soil Boring 7 (9-10feet)-13** **York Sample ID:** **20A0318-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 10:00 am	01/09/2020

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-85-7	beta-BHC	ND		ug/kg dry	1.85	5	EPA 8081B	01/13/2020 13:40	01/14/2020 17:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
57-74-9	Chlordane, total	ND		ug/kg dry	36.9	5	EPA 8081B	01/13/2020 13:40	01/14/2020 17:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-86-8	delta-BHC	ND		ug/kg dry	1.85	5	EPA 8081B	01/13/2020 13:40	01/14/2020 17:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
60-57-1	Dieldrin	ND		ug/kg dry	1.85	5	EPA 8081B	01/13/2020 13:40	01/14/2020 17:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
959-98-8	Endosulfan I	ND		ug/kg dry	1.85	5	EPA 8081B	01/13/2020 13:40	01/14/2020 17:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.85	5	EPA 8081B	01/13/2020 13:40	01/14/2020 17:51	CM
							Certifications:	CTDOH,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.85	5	EPA 8081B	01/13/2020 13:40	01/14/2020 17:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-20-8	Endrin	ND		ug/kg dry	1.85	5	EPA 8081B	01/13/2020 13:40	01/14/2020 17:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.85	5	EPA 8081B	01/13/2020 13:40	01/14/2020 17:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53494-70-5	Endrin ketone	ND		ug/kg dry	1.85	5	EPA 8081B	01/13/2020 13:40	01/14/2020 17:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.85	5	EPA 8081B	01/13/2020 13:40	01/14/2020 17:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.85	5	EPA 8081B	01/13/2020 13:40	01/14/2020 17:51	CM
							Certifications:	NELAC-NY10854,NJDEP		
76-44-8	Heptachlor	ND		ug/kg dry	1.85	5	EPA 8081B	01/13/2020 13:40	01/14/2020 17:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.85	5	EPA 8081B	01/13/2020 13:40	01/14/2020 17:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-43-5	Methoxychlor	ND		ug/kg dry	9.23	5	EPA 8081B	01/13/2020 13:40	01/14/2020 17:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
8001-35-2	Toxaphene	ND		ug/kg dry	93.4	5	EPA 8081B	01/13/2020 13:40	01/14/2020 17:51	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*62.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*73.0 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0186	1	EPA 8082A	01/13/2020 13:40	01/15/2020 15:18	SR
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 7 (9-10feet)-13** **York Sample ID:** **20A0318-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 10:00 am	01/09/2020

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:18	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:18	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:18	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:18	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:18	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:18	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications:	01/13/2020 13:40	01/15/2020 15:18	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*81.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*80.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9340**		mg/kg dry	5.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:00	JAM
7440-36-0	Antimony	ND		mg/kg dry	2.88	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:00	JAM
7440-38-2	Arsenic	ND		mg/kg dry	1.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:00	JAM
7440-39-3	**Barium**	**37.6**		mg/kg dry	2.88	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:00	JAM
7440-41-7	Beryllium	ND		mg/kg dry	0.058	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:00	JAM
7440-43-9	Cadmium	ND		mg/kg dry	0.346	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:00	JAM
7440-70-2	**Calcium**	**49000**		mg/kg dry	5.76	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:00	JAM
7440-47-3	**Chromium**	**14.7**		mg/kg dry	0.576	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:00	JAM
7440-48-4	**Cobalt**	**6.19**		mg/kg dry	0.461	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:00	JAM
7440-50-8	**Copper**	**11.9**		mg/kg dry	2.31	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:00	JAM

Sample Information

Client Sample ID: **Soil Boring 7 (9-10feet)-13** **York Sample ID:** **20A0318-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 10:00 am	01/09/2020

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	**Iron**	**11100**		mg/kg dry	28.8	1	EPA 6010D	01/10/2020 10:20	01/15/2020 16:00	JAM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-92-1	**Lead**	**1.49**		mg/kg dry	0.576	1	EPA 6010D	01/10/2020 10:20	01/15/2020 16:00	JAM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-95-4	**Magnesium**	**11800**		mg/kg dry	5.76	1	EPA 6010D	01/10/2020 10:20	01/15/2020 16:00	JAM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	**Manganese**	**267**		mg/kg dry	0.576	1	EPA 6010D	01/10/2020 10:20	01/15/2020 16:00	JAM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	**Nickel**	**12.8**		mg/kg dry	1.15	1	EPA 6010D	01/10/2020 10:20	01/15/2020 16:00	JAM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**1360**	B	mg/kg dry	5.76	1	EPA 6010D	01/10/2020 10:20	01/15/2020 16:00	JAM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	Selenium	ND		mg/kg dry	2.88	1	EPA 6010D	01/10/2020 10:20	01/15/2020 16:00	JAM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/kg dry	0.576	1	EPA 6010D	01/10/2020 10:20	01/15/2020 16:00	JAM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**344**		mg/kg dry	57.6	1	EPA 6010D	01/10/2020 10:20	01/15/2020 16:00	JAM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		mg/kg dry	2.88	1	EPA 6010D	01/10/2020 10:20	01/15/2020 16:00	JAM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-62-2	**Vanadium**	**18.2**		mg/kg dry	1.15	1	EPA 6010D	01/10/2020 10:20	01/15/2020 16:00	JAM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	**Zinc**	**26.1**		mg/kg dry	2.88	1	EPA 6010D	01/10/2020 10:20	01/15/2020 16:00	JAM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0346	1	EPA 7473	01/10/2020 12:00	01/10/2020 12:42	SY
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.576	1	EPA 9014/9010C	01/10/2020 08:48	01/10/2020 15:42	JAG
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

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

Sample Information

Client Sample ID: **Soil Boring 7 (9-10feet)-13** **York Sample ID:** **20A0318-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 10:00 am	01/09/2020

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**86.8**		%	0.100	1	SM 2540G Certifications: CTDOH	01/14/2020 15:51	01/15/2020 10:22	JAG

Sample Information

Client Sample ID: **Soil Boring 7 (9-10feet)-13 VOC** **York Sample ID:** **20A0318-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 10:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 01:27	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	01/14/2020 06:47	01/15/2020 01:27	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 01:27	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ

Sample Information

Client Sample ID: **Soil Boring 7 (9-10feet)-13 VOC** **York Sample ID:** **20A0318-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 10:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes: **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:47	01/15/2020 01:27	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:47	01/15/2020 01:27	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:47	01/15/2020 01:27	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:47	01/15/2020 01:27	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:47	01/15/2020 01:27	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:47	01/15/2020 01:27	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
123-91-1	1,4-Dioxane	ND		ug/kg dry	52	100	1	EPA 8260C	01/14/2020 06:47	01/15/2020 01:27	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:47	01/15/2020 01:27	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
591-78-6	2-Hexanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:47	01/15/2020 01:27	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:47	01/15/2020 01:27	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
67-64-1	**Acetone**	**9.7**	J	ug/kg dry	5.2	10	1	EPA 8260C	01/14/2020 06:47	01/15/2020 01:27	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-02-8	Acrolein	ND		ug/kg dry	5.2	10	1	EPA 8260C	01/14/2020 06:47	01/15/2020 01:27	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-13-1	Acrylonitrile	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:47	01/15/2020 01:27	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
71-43-2	Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:47	01/15/2020 01:27	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-97-5	Bromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:47	01/15/2020 01:27	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:47	01/15/2020 01:27	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-25-2	Bromoform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:47	01/15/2020 01:27	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-83-9	Bromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:47	01/15/2020 01:27	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-15-0	Carbon disulfide	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:47	01/15/2020 01:27	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:47	01/15/2020 01:27	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:47	01/15/2020 01:27	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

Sample Information

Client Sample ID: **Soil Boring 7 (9-10feet)-13 VOC** **York Sample ID:** **20A0318-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 10:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
74-87-3	Chloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
110-82-7	Cyclohexane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 01:27	LLJ
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 01:27	LLJ
74-95-3	Dibromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 01:27	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 01:27	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 01:27	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
79-20-9	Methyl acetate	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 01:27	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 01:27	LLJ
75-09-2	**Methylene chloride**	**9.4**	J	ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 01:27	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 01:27	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ

Sample Information

Client Sample ID: **Soil Boring 7 (9-10feet)-13 VOC** **York Sample ID:** **20A0318-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 10:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
100-42-5	Styrene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 01:27	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH	01/14/2020 06:47	01/15/2020 01:27	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.8	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:27	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*97.3 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:47	01/15/2020 01:27	LLJ

Sample Information

Client Sample ID: **Soil Boring 7 (9-10feet)-13 VOC** **York Sample ID:** **20A0318-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 10:00 am	01/09/2020

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**96.0**		%	0.100	1	SM 2540G Certifications: CTDOH	01/16/2020 16:38	01/16/2020 16:44	WL

Sample Information

Client Sample ID: **Soil Boring 7 (10-11feet)-14** **York Sample ID:** **20A0318-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 11:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	95.1	190	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	95.1	190	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	95.1	190	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW

Sample Information

Client Sample ID: **Soil Boring 7 (10-11feet)-14** **York Sample ID:** **20A0318-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 11:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-57-8	2-Chlorophenol	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		ug/kg dry	95.1	190	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		ug/kg dry	95.1	190	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	95.1	190	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-01-6	4-Nitroaniline	ND		ug/kg dry	95.1	190	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		ug/kg dry	95.1	190	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
83-32-9	Acenaphthene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	Acenaphthylene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 7 (10-11feet)-14** **York Sample ID:** **20A0318-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 11:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
62-53-3	Aniline	ND		ug/kg dry	190	381	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
120-12-7	Anthracene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
1912-24-9	Atrazine	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	190	381	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
65-85-0	Benzoic acid	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
100-51-6	Benzyl alcohol	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
105-60-2	Caprolactam	ND		ug/kg dry	95.1	190	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
86-74-8	Carbazole	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
218-01-9	Chrysene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW

Sample Information

Client Sample ID: **Soil Boring 7 (10-11feet)-14** **York Sample ID:** **20A0318-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 11:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
132-64-9	Dibenzofuran	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	Fluoranthene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	Fluorene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
118-74-1	Hexachlorobenzene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
67-72-1	Hexachloroethane	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	Naphthalene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-95-3	Nitrobenzene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-86-5	Pentachlorophenol	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
85-01-8	Phenanthrene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-95-2	Phenol	ND		ug/kg dry	47.6	95.1	2	EPA 8270D	01/13/2020 13:45	01/14/2020 12:30	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 7 (10-11feet)-14** **York Sample ID:** **20A0318-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 11:00 am	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	Pyrene	ND		ug/kg dry	47.6	95.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 12:30	OW

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*75.3 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*76.7 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*87.1 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*78.2 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*84.2 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*81.5 %*	*24-116*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 12:30	OW

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 18:07	CM
72-55-9	4,4'-DDE	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 18:07	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 18:07	CM
309-00-2	Aldrin	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 18:07	CM
319-84-6	alpha-BHC	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 18:07	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 13:40	01/14/2020 18:07	CM
319-85-7	beta-BHC	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 18:07	CM
57-74-9	Chlordane, total	ND		ug/kg dry	37.5	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 18:07	CM
319-86-8	delta-BHC	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 18:07	CM

Sample Information

Client Sample ID: **Soil Boring 7 (10-11feet)-14** **York Sample ID:** **20A0318-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 11:00 am	01/09/2020

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
60-57-1	Dieldrin	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 18:07	CM
959-98-8	Endosulfan I	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 18:07	CM
33213-65-9	Endosulfan II	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	01/13/2020 13:40	01/14/2020 18:07	CM
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 18:07	CM
72-20-8	Endrin	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 18:07	CM
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 18:07	CM
53494-70-5	Endrin ketone	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 18:07	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 18:07	CM
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 13:40	01/14/2020 18:07	CM
76-44-8	Heptachlor	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 18:07	CM
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 18:07	CM
72-43-5	Methoxychlor	ND		ug/kg dry	9.37	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 18:07	CM
8001-35-2	Toxaphene	ND		ug/kg dry	94.9	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/14/2020 18:07	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*68.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*71.1 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:32	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:32	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:32	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:32	SR

Sample Information

Client Sample ID: **Soil Boring 7 (10-11feet)-14** **York Sample ID:** **20A0318-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 11:00 am	01/09/2020

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:32	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:32	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:32	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications:	01/13/2020 13:40	01/15/2020 15:32	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*80.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*81.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**5080**		mg/kg dry	5.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:07	JAM
7440-36-0	Antimony	ND		mg/kg dry	2.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:07	JAM
7440-38-2	Arsenic	ND		mg/kg dry	1.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:07	JAM
7440-39-3	**Barium**	**127**		mg/kg dry	2.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:07	JAM
7440-41-7	Beryllium	ND		mg/kg dry	0.057	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:07	JAM
7440-43-9	Cadmium	ND		mg/kg dry	0.343	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:07	JAM
7440-70-2	**Calcium**	**15000**		mg/kg dry	5.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:07	JAM
7440-47-3	**Chromium**	**10.7**		mg/kg dry	0.572	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:07	JAM
7440-48-4	**Cobalt**	**4.04**		mg/kg dry	0.457	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:07	JAM
7440-50-8	**Copper**	**1190**		mg/kg dry	2.29	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:07	JAM
7439-89-6	**Iron**	**8620**		mg/kg dry	28.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:07	JAM
7439-92-1	**Lead**	**44.8**		mg/kg dry	0.572	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:07	JAM
7439-95-4	**Magnesium**	**2630**		mg/kg dry	5.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:07	JAM
7439-96-5	**Manganese**	**124**		mg/kg dry	0.572	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:07	JAM

Sample Information

Client Sample ID: **Soil Boring 7 (10-11feet)-14** **York Sample ID:** **20A0318-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 11:00 am	01/09/2020

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	**Nickel**	**8.81**		mg/kg dry	1.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:07	JAM
7440-09-7	**Potassium**	**1420**	B	mg/kg dry	5.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:07	JAM
7782-49-2	Selenium	ND		mg/kg dry	2.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:07	JAM
7440-22-4	Silver	ND		mg/kg dry	0.572	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:07	JAM
7440-23-5	**Sodium**	**166**		mg/kg dry	57.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:07	JAM
7440-28-0	Thallium	ND		mg/kg dry	2.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:07	JAM
7440-62-2	**Vanadium**	**12.3**		mg/kg dry	1.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:07	JAM
7440-66-6	**Zinc**	**97.3**		mg/kg dry	2.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:07	JAM

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0899**		mg/kg dry	0.0343	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	01/10/2020 12:00	01/10/2020 12:51	SY

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.572	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/10/2020 08:48	01/10/2020 15:42	JAG

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**87.4**		%	0.100	1	SM 2540G Certifications: CTDOH	01/14/2020 15:51	01/15/2020 10:22	JAG

Sample Information

Client Sample ID: **Soil Boring 7 (10-11feet)-14 VOC** **York Sample ID:** **20A0318-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 11:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 01:53	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	01/14/2020 06:47	01/15/2020 01:53	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 01:53	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	52	100	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 01:53	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ

Sample Information

Client Sample ID: **Soil Boring 7 (10-11feet)-14 VOC** **York Sample ID:** **20A0318-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 11:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes: **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
67-64-1	**Acetone**	**14**		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
107-02-8	Acrolein	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
107-13-1	Acrylonitrile	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
74-97-5	Bromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 01:53	LLJ
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
75-25-2	Bromoform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
74-83-9	Bromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
75-15-0	Carbon disulfide	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
75-00-3	Chloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
74-87-3	Chloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
110-82-7	Cyclohexane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 01:53	LLJ
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 01:53	LLJ
74-95-3	Dibromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 01:53	LLJ

Sample Information

Client Sample ID: **Soil Boring 7 (10-11feet)-14 VOC** **York Sample ID:** **20A0318-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 11:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 01:53	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 01:53	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
79-20-9	Methyl acetate	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 01:53	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 01:53	LLJ
75-09-2	**Methylene chloride**	**10**	J	ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 01:53	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 01:53	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
100-42-5	Styrene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 01:53	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ

Sample Information

Client Sample ID: **Soil Boring 7 (10-11feet)-14 VOC** **York Sample ID:** **20A0318-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 11:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH	01/14/2020 06:47	01/15/2020 01:53	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.8	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 01:53	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*106 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*97.0 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*103 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:47	01/15/2020 01:53	LLJ

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**96.1**		%	0.100	1	SM 2540G Certifications: CTDOH	01/16/2020 16:38	01/16/2020 16:44	WL

Sample Information

Client Sample ID: **Soil Boring 8 (11-12feet)-15** **York Sample ID:** **20A0318-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 2:00 pm	01/09/2020

Sample Information

Client Sample ID: **Soil Boring 8 (11-12feet)-15** **York Sample ID:** **20A0318-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 2:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	93.3	186	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	93.3	186	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	93.3	186	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
95-57-8	2-Chlorophenol	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
95-48-7	2-Methylphenol	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
88-74-4	2-Nitroaniline	ND		ug/kg dry	93.3	186	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
88-75-5	2-Nitrophenol	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW

Sample Information

Client Sample ID: **Soil Boring 8 (11-12feet)-15** **York Sample ID:** **20A0318-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 2:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
99-09-2	3-Nitroaniline	ND		ug/kg dry	93.3	186	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	93.3	186	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
106-47-8	4-Chloroaniline	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
100-01-6	4-Nitroaniline	ND		ug/kg dry	93.3	186	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
100-02-7	4-Nitrophenol	ND		ug/kg dry	93.3	186	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
83-32-9	Acenaphthene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
208-96-8	Acenaphthylene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
98-86-2	Acetophenone	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
62-53-3	Aniline	ND		ug/kg dry	187	374	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
120-12-7	Anthracene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
1912-24-9	Atrazine	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	187	374	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW

Sample Information

Client Sample ID: **Soil Boring 8 (11-12feet)-15** **York Sample ID:** **20A0318-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 2:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 13:01	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 13:01	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65-85-0	Benzoic acid	ND		ug/kg dry	46.8	93.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 13:01	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-51-6	Benzyl alcohol	ND		ug/kg dry	46.8	93.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 13:01	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	46.8	93.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 13:01	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	46.8	93.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 13:01	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	46.8	93.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 13:01	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	46.8	93.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 13:01	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	46.8	93.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 13:01	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-60-2	Caprolactam	ND		ug/kg dry	93.3	186	2	EPA 8270D	01/13/2020 13:45	01/14/2020 13:01	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
86-74-8	Carbazole	ND		ug/kg dry	46.8	93.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 13:01	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	Chrysene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 13:01	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 13:01	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	Dibenzofuran	ND		ug/kg dry	46.8	93.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 13:01	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		ug/kg dry	46.8	93.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 13:01	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		ug/kg dry	46.8	93.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 13:01	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	46.8	93.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 13:01	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	46.8	93.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 13:01	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	Fluoranthene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 13:01	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	Fluorene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 13:01	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
118-74-1	Hexachlorobenzene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 13:01	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 8 (11-12feet)-15** **York Sample ID:** **20A0318-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 2:00 pm	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
67-72-1	Hexachloroethane	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
78-59-1	Isophorone	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
91-20-3	Naphthalene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
98-95-3	Nitrobenzene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
85-01-8	Phenanthrene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
108-95-2	Phenol	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW
129-00-0	Pyrene	ND		ug/kg dry	46.8	93.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:01	OW

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*86.0 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*84.1 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*94.0 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*82.9 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*87.7 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*83.3 %*	*24-116*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

Sample Information

Client Sample ID: **Soil Boring 8 (11-12feet)-15** **York Sample ID:** **20A0318-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 2:00 pm	01/09/2020

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 13:01	OW

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 12:56	CM
72-55-9	4,4'-DDE	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 12:56	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 12:56	CM
309-00-2	Aldrin	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 12:56	CM
319-84-6	alpha-BHC	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 12:56	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 13:40	01/15/2020 12:56	CM
319-85-7	beta-BHC	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 12:56	CM
57-74-9	Chlordane, total	ND		ug/kg dry	37.4	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 12:56	CM
319-86-8	delta-BHC	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 12:56	CM
60-57-1	Dieldrin	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 12:56	CM
959-98-8	Endosulfan I	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 12:56	CM
33213-65-9	Endosulfan II	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	01/13/2020 13:40	01/15/2020 12:56	CM
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 12:56	CM
72-20-8	Endrin	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 12:56	CM
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 12:56	CM
53494-70-5	Endrin ketone	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 12:56	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 12:56	CM

Sample Information

Client Sample ID: **Soil Boring 8 (11-12feet)-15** **York Sample ID:** **20A0318-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 2:00 pm	01/09/2020

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 13:40	01/15/2020 12:56	CM
76-44-8	Heptachlor	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 12:56	CM
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 12:56	CM
72-43-5	Methoxychlor	ND		ug/kg dry	9.35	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 12:56	CM
8001-35-2	Toxaphene	ND		ug/kg dry	94.7	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 12:56	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*60.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*67.2 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:45	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:45	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:45	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:45	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:45	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:45	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:45	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0189	1	EPA 8082A Certifications:	01/13/2020 13:40	01/15/2020 15:45	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*83.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*89.0 %*	*30-140*

Sample Information

Client Sample ID: **Soil Boring 8 (11-12feet)-15** **York Sample ID:** **20A0318-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 2:00 pm	01/09/2020

Metals, Target Analyte **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8590**		mg/kg dry	5.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:14	JAM
7440-36-0	Antimony	ND		mg/kg dry	2.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:14	JAM
7440-38-2	Arsenic	ND		mg/kg dry	1.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:14	JAM
7440-39-3	**Barium**	**90.8**		mg/kg dry	2.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:14	JAM
7440-41-7	Beryllium	ND		mg/kg dry	0.057	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:14	JAM
7440-43-9	**Cadmium**	**0.379**		mg/kg dry	0.344	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:14	JAM
7440-70-2	**Calcium**	**51500**		mg/kg dry	5.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:14	JAM
7440-47-3	**Chromium**	**27.6**		mg/kg dry	0.573	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:14	JAM
7440-48-4	**Cobalt**	**8.87**		mg/kg dry	0.458	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:14	JAM
7440-50-8	**Copper**	**19.0**		mg/kg dry	2.29	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:14	JAM
7439-89-6	**Iron**	**15000**		mg/kg dry	28.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:14	JAM
7439-92-1	**Lead**	**0.607**		mg/kg dry	0.573	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:14	JAM
7439-95-4	**Magnesium**	**34600**		mg/kg dry	5.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:14	JAM
7439-96-5	**Manganese**	**249**		mg/kg dry	0.573	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:14	JAM
7440-02-0	**Nickel**	**18.0**		mg/kg dry	1.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:14	JAM
7440-09-7	**Potassium**	**4460**	B	mg/kg dry	5.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:14	JAM
7782-49-2	Selenium	ND		mg/kg dry	2.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:14	JAM
7440-22-4	Silver	ND		mg/kg dry	0.573	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:14	JAM
7440-23-5	**Sodium**	**247**		mg/kg dry	57.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:14	JAM
7440-28-0	Thallium	ND		mg/kg dry	2.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:14	JAM
7440-62-2	**Vanadium**	**33.9**		mg/kg dry	1.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:14	JAM
7440-66-6	**Zinc**	**64.7**		mg/kg dry	2.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:14	JAM

Sample Information

Client Sample ID: **Soil Boring 8 (11-12feet)-15** **York Sample ID:** **20A0318-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 2:00 pm	01/09/2020

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0344	1	EPA 7473	01/10/2020 12:00	01/10/2020 13:00	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.573	1	EPA 9014/9010C	01/10/2020 08:48	01/10/2020 15:42	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**87.3**		%	0.100	1	SM 2540G	01/14/2020 15:51	01/15/2020 10:22	JAG
							Certifications: CTDOH			

Sample Information

Client Sample ID: **Soil Boring 8 (11-12feet)-15 VOC** **York Sample ID:** **20A0318-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 2:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.9	5.9	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			

Sample Information

Client Sample ID: **Soil Boring 8 (11-12feet)-15 VOC** **York Sample ID:** **20A0318-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 2:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
123-91-1	1,4-Dioxane	ND		ug/kg dry	59	120	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
78-93-3	2-Butanone	ND		ug/kg dry	2.9	5.9	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
591-78-6	2-Hexanone	ND		ug/kg dry	2.9	5.9	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.9	5.9	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
67-64-1	**Acetone**	**16**		ug/kg dry	5.9	12	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-02-8	Acrolein	ND		ug/kg dry	5.9	12	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-13-1	Acrylonitrile	ND		ug/kg dry	2.9	5.9	1	EPA 8260C	01/14/2020 06:47	01/15/2020 02:20	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

Sample Information

Client Sample ID: **Soil Boring 8 (11-12feet)-15 VOC** **York Sample ID:** **20A0318-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 2:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
74-97-5	Bromochloromethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 02:20	LLJ
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
75-25-2	Bromoform	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
74-83-9	Bromomethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
75-15-0	Carbon disulfide	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
75-00-3	Chloroethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
74-87-3	Chloromethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
110-82-7	Cyclohexane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 02:20	LLJ
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 02:20	LLJ
74-95-3	Dibromomethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 02:20	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 02:20	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 02:20	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
79-20-9	Methyl acetate	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 02:20	LLJ

Sample Information

Client Sample ID: **Soil Boring 8 (11-12feet)-15 VOC** **York Sample ID:** **20A0318-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 2:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	01/14/2020 06:47	01/15/2020 02:20	LLJ
75-09-2	Methylene chloride	ND		ug/kg dry	5.9	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 02:20	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.9	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 02:20	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
100-42-5	Styrene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	01/14/2020 06:47	01/15/2020 02:20	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH	01/14/2020 06:47	01/15/2020 02:20	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.8	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:20	LLJ

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: **Soil Boring 8 (11-12feet)-15 VOC** **York Sample ID:** **20A0318-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 2:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*103 %*			*77-125*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*97.1 %*			*85-120*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*100 %*			*76-130*						

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:47	01/15/2020 02:20	LLJ

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**85.3**		%	0.100	1	SM 2540G Certifications: CTDOH	01/16/2020 16:38	01/16/2020 16:44	WL

Sample Information

Client Sample ID: **Soil Boring 8 (13-14feet)-16** **York Sample ID:** **20A0318-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 3:00 pm	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	88.8	177	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW

Sample Information

Client Sample ID: **Soil Boring 8 (13-14feet)-16** **York Sample ID:** **20A0318-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 3:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	88.8	177	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	88.8	177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
95-57-8	2-Chlorophenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
95-48-7	2-Methylphenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
88-74-4	2-Nitroaniline	ND		ug/kg dry	88.8	177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
88-75-5	2-Nitrophenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
99-09-2	3-Nitroaniline	ND		ug/kg dry	88.8	177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	88.8	177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW

Sample Information

Client Sample ID: **Soil Boring 8 (13-14feet)-16** **York Sample ID:** **20A0318-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 3:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
106-47-8	4-Chloroaniline	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
100-01-6	4-Nitroaniline	ND		ug/kg dry	88.8	177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
100-02-7	4-Nitrophenol	ND		ug/kg dry	88.8	177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
83-32-9	Acenaphthene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
208-96-8	Acenaphthylene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
98-86-2	Acetophenone	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
62-53-3	Aniline	ND		ug/kg dry	178	356	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
120-12-7	**Anthracene**	**73.1**	J	ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
1912-24-9	Atrazine	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	178	356	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
56-55-3	**Benzo(a)anthracene**	**233**		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
50-32-8	**Benzo(a)pyrene**	**236**		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
205-99-2	**Benzo(b)fluoranthene**	**202**		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
191-24-2	**Benzo(g,h,i)perylene**	**150**		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
207-08-9	**Benzo(k)fluoranthene**	**196**		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
65-85-0	Benzoic acid	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
100-51-6	Benzyl alcohol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW

Sample Information

Client Sample ID: **Soil Boring 8 (13-14feet)-16** **York Sample ID:** **20A0318-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 3:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
105-60-2	Caprolactam	ND		ug/kg dry	88.8	177	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
86-74-8	Carbazole	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
218-01-9	**Chrysene**	**226**		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
53-70-3	**Dibenzo(a,h)anthracene**	**46.1**	J	ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
132-64-9	Dibenzofuran	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
84-66-2	Diethyl phthalate	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
131-11-3	Dimethyl phthalate	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
206-44-0	**Fluoranthene**	**521**		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
86-73-7	Fluorene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
118-74-1	Hexachlorobenzene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
67-72-1	Hexachloroethane	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
193-39-5	**Indeno(1,2,3-cd)pyrene**	**160**		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
78-59-1	Isophorone	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
91-20-3	Naphthalene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
98-95-3	Nitrobenzene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW

Sample Information

Client Sample ID: **Soil Boring 8 (13-14feet)-16** **York Sample ID:** **20A0318-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 3:00 pm	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
85-01-8	**Phenanthrene**	**290**		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
108-95-2	Phenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW
129-00-0	**Pyrene**	**417**		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 13:33	OW

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*73.4 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*77.3 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*80.6 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*80.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*84.9 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*79.0 %*	*24-116*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 13:33	OW

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:13	CM
72-55-9	4,4'-DDE	ND		ug/kg dry	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:13	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:13	CM
309-00-2	Aldrin	ND		ug/kg dry	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:13	CM

Sample Information

Client Sample ID: **Soil Boring 8 (13-14feet)-16** **York Sample ID:** **20A0318-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 3:00 pm	01/09/2020

Pesticides, 8081 target list **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		ug/kg dry	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:13	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.76	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 13:40	01/15/2020 13:13	CM
319-85-7	beta-BHC	ND		ug/kg dry	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:13	CM
57-74-9	Chlordane, total	ND		ug/kg dry	35.1	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:13	CM
319-86-8	delta-BHC	ND		ug/kg dry	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:13	CM
60-57-1	Dieldrin	ND		ug/kg dry	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:13	CM
959-98-8	Endosulfan I	ND		ug/kg dry	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:13	CM
33213-65-9	Endosulfan II	ND		ug/kg dry	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	01/13/2020 13:40	01/15/2020 13:13	CM
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:13	CM
72-20-8	Endrin	ND		ug/kg dry	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:13	CM
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:13	CM
53494-70-5	Endrin ketone	ND		ug/kg dry	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:13	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:13	CM
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.76	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 13:40	01/15/2020 13:13	CM
76-44-8	Heptachlor	ND		ug/kg dry	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:13	CM
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:13	CM
72-43-5	Methoxychlor	ND		ug/kg dry	8.78	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:13	CM
8001-35-2	Toxaphene	ND		ug/kg dry	88.9	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:13	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*52.8 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*57.9 %*	*30-150*

Sample Information

Client Sample ID: **Soil Boring 8 (13-14feet)-16** **York Sample ID:** **20A0318-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 3:00 pm	01/09/2020

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:59	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:59	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:59	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:59	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:59	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:59	SR
11096-82-5	**Aroclor 1260**	**0.0215**		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:59	SR
1336-36-3	*** Total PCBs**	**0.0215**		mg/kg dry	0.0177	1	EPA 8082A Certifications:	01/13/2020 13:40	01/15/2020 15:59	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*65.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*72.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8950**		mg/kg dry	5.39	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:21	JAM
7440-36-0	Antimony	ND		mg/kg dry	2.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:21	JAM
7440-38-2	**Arsenic**	**3.43**		mg/kg dry	1.62	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:21	JAM
7440-39-3	**Barium**	**70.1**		mg/kg dry	2.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:21	JAM
7440-41-7	Beryllium	ND		mg/kg dry	0.054	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:21	JAM
7440-43-9	Cadmium	ND		mg/kg dry	0.324	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:21	JAM
7440-70-2	**Calcium**	**5170**		mg/kg dry	5.39	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:21	JAM
7440-47-3	**Chromium**	**16.3**		mg/kg dry	0.539	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:21	JAM
7440-48-4	**Cobalt**	**6.62**		mg/kg dry	0.431	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:21	JAM

Sample Information

Client Sample ID: **Soil Boring 8 (13-14feet)-16** **York Sample ID:** **20A0318-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 3:00 pm	01/09/2020

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**27.2**		mg/kg dry	2.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:21	JAM
7439-89-6	**Iron**	**12300**		mg/kg dry	27.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:21	JAM
7439-92-1	**Lead**	**67.9**		mg/kg dry	0.539	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:21	JAM
7439-95-4	**Magnesium**	**3450**		mg/kg dry	5.39	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:21	JAM
7439-96-5	**Manganese**	**264**		mg/kg dry	0.539	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:21	JAM
7440-02-0	**Nickel**	**15.0**		mg/kg dry	1.08	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:21	JAM
7440-09-7	**Potassium**	**1490**	B	mg/kg dry	5.39	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:21	JAM
7782-49-2	Selenium	ND		mg/kg dry	2.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:21	JAM
7440-22-4	Silver	ND		mg/kg dry	0.539	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:21	JAM
7440-23-5	**Sodium**	**180**		mg/kg dry	53.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:21	JAM
7440-28-0	Thallium	ND		mg/kg dry	2.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:21	JAM
7440-62-2	**Vanadium**	**20.2**		mg/kg dry	1.08	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:21	JAM
7440-66-6	**Zinc**	**76.8**		mg/kg dry	2.70	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:21	JAM

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.424**		mg/kg dry	0.0324	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	01/10/2020 12:00	01/10/2020 13:09	SY

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.539	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/10/2020 08:48	01/10/2020 15:42	JAG

Sample Information

Client Sample ID: **Soil Boring 8 (13-14feet)-16** **York Sample ID:** **20A0318-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 3:00 pm	01/09/2020

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**92.7**		%	0.100	1	SM 2540G Certifications: CTDOH	01/14/2020 15:51	01/15/2020 10:22	JAG

Sample Information

Client Sample ID: **Soil Boring 8 (13-14feet)-16 VOC** **York Sample ID:** **20A0318-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 3:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:47	01/15/2020 02:46	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	01/14/2020 06:47	01/15/2020 02:46	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:47	01/15/2020 02:46	LLJ
95-63-6	**1,2,4-Trimethylbenzene**	**7.2**		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ

Sample Information

Client Sample ID: **Soil Boring 8 (13-14feet)-16 VOC** **York Sample ID:** **20A0318-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 3:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
108-67-8	**1,3,5-Trimethylbenzene**	**9.9**		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	70	140	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:47	01/15/2020 02:46	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
591-78-6	2-Hexanone	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
67-64-1	**Acetone**	**13**	J	ug/kg dry	7.0	14	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
107-02-8	Acrolein	ND		ug/kg dry	7.0	14	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
107-13-1	Acrylonitrile	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
71-43-2	Benzene	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
74-97-5	Bromochloromethane	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:47	01/15/2020 02:46	LLJ
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
75-25-2	Bromoform	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
74-83-9	Bromomethane	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
75-15-0	Carbon disulfide	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
75-00-3	Chloroethane	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ

Sample Information

Client Sample ID: **Soil Boring 8 (13-14feet)-16 VOC** **York Sample ID:** **20A0318-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 3:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
74-87-3	Chloromethane	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
110-82-7	Cyclohexane	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 02:46	LLJ
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 02:46	LLJ
74-95-3	Dibromomethane	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 02:46	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 02:46	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 02:46	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
79-20-9	Methyl acetate	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 02:46	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 02:46	LLJ
75-09-2	Methylene chloride	ND		ug/kg dry	7.0	14	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 02:46	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	7.0	14	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 02:46	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
135-98-8	**sec-Butylbenzene**	**4.8**	J	ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ

Sample Information

Client Sample ID: **Soil Boring 8 (13-14feet)-16 VOC** **York Sample ID:** **20A0318-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 3:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 02:46	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
108-88-3	Toluene	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH	01/14/2020 06:47	01/15/2020 02:46	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.5	7.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	10	21	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 02:46	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*102 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*96.8 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*101 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
072088-04-1	**1h-indene ISOMERs**	**34**		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:47	01/15/2020 02:46	LLJ
NA	**dimethyl benzene isomers**	**37**		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:47	01/15/2020 02:46	LLJ
NA	**dimethyl Undecane isomer**	**11**		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:47	01/15/2020 02:46	LLJ
NA	**methyl Benzene isomer**	**16**		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:47	01/15/2020 02:46	LLJ
NA	**methylpropyl benzene isomers**	**48**		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:47	01/15/2020 02:46	LLJ

Sample Information

Client Sample ID: **Soil Boring 8 (13-14feet)-16 VOC** **York Sample ID:** **20A0318-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 3:00 pm	01/09/2020

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Tetramethyl Benzene isomer**	**26**		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:47	01/15/2020 02:46	LLJ

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**71.8**		%	0.100	1	SM 2540G Certifications: CTDOH	01/16/2020 16:38	01/16/2020 16:44	WL

Sample Information

Client Sample ID: **Soil Boring 9 (15-16feet)-17** **York Sample ID:** **20A0318-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 4:00 pm	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	50.8	101	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 14:05	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	101	202	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 14:05	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	50.8	101	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 14:05	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	50.8	101	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 14:05	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	50.8	101	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 14:05	OW
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	50.8	101	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 14:05	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	50.8	101	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 14:05	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	101	202	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 14:05	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	50.8	101	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 14:05	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	50.8	101	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 14:05	OW

Sample Information

Client Sample ID: **Soil Boring 9 (15-16feet)-17** **York Sample ID:** **20A0318-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 4:00 pm	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	101	202	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-57-8	2-Chlorophenol	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		ug/kg dry	101	202	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		ug/kg dry	101	202	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	101	202	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-01-6	4-Nitroaniline	ND		ug/kg dry	101	202	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		ug/kg dry	101	202	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 9 (15-16feet)-17** **York Sample ID:** **20A0318-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 4:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	Acenaphthylene	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
62-53-3	Aniline	ND		ug/kg dry	203	406	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-12-7	Anthracene	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1912-24-9	Atrazine	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	203	406	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,PADEP		
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65-85-0	Benzoic acid	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-51-6	Benzyl alcohol	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-60-2	Caprolactam	ND		ug/kg dry	101	202	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 9 (15-16feet)-17** **York Sample ID:** **20A0318-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 4:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-74-8	Carbazole	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	Chrysene	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	Dibenzofuran	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	Fluoranthene	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	Fluorene	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
118-74-1	Hexachlorobenzene	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
67-72-1	Hexachloroethane	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	Naphthalene	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-95-3	Nitrobenzene	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	50.8	101	2	EPA 8270D	01/13/2020 13:45	01/14/2020 14:05	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 9 (15-16feet)-17** **York Sample ID:** **20A0318-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 4:00 pm	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-86-5	Pentachlorophenol	ND		ug/kg dry	50.8	101	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 14:05	OW
85-01-8	Phenanthrene	ND		ug/kg dry	50.8	101	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 14:05	OW
108-95-2	Phenol	ND		ug/kg dry	50.8	101	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 14:05	OW
129-00-0	Pyrene	ND		ug/kg dry	50.8	101	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 14:05	OW

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*81.8 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*85.4 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*89.3 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*79.2 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*84.8 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*82.0 %*	*24-116*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 14:05	OW

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.99	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:30	CM
72-55-9	4,4'-DDE	ND		ug/kg dry	1.99	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:30	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	1.99	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:30	CM
309-00-2	Aldrin	ND		ug/kg dry	1.99	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:30	CM
319-84-6	alpha-BHC	ND		ug/kg dry	1.99	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:30	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.99	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 13:40	01/15/2020 13:30	CM

Sample Information

Client Sample ID: **Soil Boring 9 (15-16feet)-17** **York Sample ID:** **20A0318-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 4:00 pm	01/09/2020

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-85-7	beta-BHC	ND		ug/kg dry	1.99	5	EPA 8081B	01/13/2020 13:40	01/15/2020 13:30	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
57-74-9	Chlordane, total	ND		ug/kg dry	39.8	5	EPA 8081B	01/13/2020 13:40	01/15/2020 13:30	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-86-8	delta-BHC	ND		ug/kg dry	1.99	5	EPA 8081B	01/13/2020 13:40	01/15/2020 13:30	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
60-57-1	Dieldrin	ND		ug/kg dry	1.99	5	EPA 8081B	01/13/2020 13:40	01/15/2020 13:30	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
959-98-8	Endosulfan I	ND		ug/kg dry	1.99	5	EPA 8081B	01/13/2020 13:40	01/15/2020 13:30	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.99	5	EPA 8081B	01/13/2020 13:40	01/15/2020 13:30	CM
							Certifications:	CTDOH,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.99	5	EPA 8081B	01/13/2020 13:40	01/15/2020 13:30	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-20-8	Endrin	ND		ug/kg dry	1.99	5	EPA 8081B	01/13/2020 13:40	01/15/2020 13:30	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.99	5	EPA 8081B	01/13/2020 13:40	01/15/2020 13:30	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53494-70-5	Endrin ketone	ND		ug/kg dry	1.99	5	EPA 8081B	01/13/2020 13:40	01/15/2020 13:30	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.99	5	EPA 8081B	01/13/2020 13:40	01/15/2020 13:30	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.99	5	EPA 8081B	01/13/2020 13:40	01/15/2020 13:30	CM
							Certifications:	NELAC-NY10854,NJDEP		
76-44-8	Heptachlor	ND		ug/kg dry	1.99	5	EPA 8081B	01/13/2020 13:40	01/15/2020 13:30	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.99	5	EPA 8081B	01/13/2020 13:40	01/15/2020 13:30	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-43-5	Methoxychlor	ND		ug/kg dry	9.96	5	EPA 8081B	01/13/2020 13:40	01/15/2020 13:30	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
8001-35-2	Toxaphene	ND		ug/kg dry	101	5	EPA 8081B	01/13/2020 13:40	01/15/2020 13:30	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*65.8 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*73.1 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0201	1	EPA 8082A	01/13/2020 13:40	01/15/2020 16:13	SR
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 9 (15-16feet)-17** **York Sample ID:** **20A0318-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 4:00 pm	01/09/2020

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0201	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:13	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0201	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:13	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0201	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:13	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0201	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:13	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0201	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:13	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0201	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:13	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0201	1	EPA 8082A Certifications:	01/13/2020 13:40	01/15/2020 16:13	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*88.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*84.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9600**		mg/kg dry	6.09	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:28	JAM
7440-36-0	Antimony	ND		mg/kg dry	3.05	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:28	JAM
7440-38-2	Arsenic	ND		mg/kg dry	1.83	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:28	JAM
7440-39-3	**Barium**	**82.5**		mg/kg dry	3.05	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:28	JAM
7440-41-7	Beryllium	ND		mg/kg dry	0.061	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:28	JAM
7440-43-9	Cadmium	ND		mg/kg dry	0.366	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:28	JAM
7440-70-2	**Calcium**	**6750**		mg/kg dry	6.09	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:28	JAM
7440-47-3	**Chromium**	**23.4**		mg/kg dry	0.609	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:28	JAM
7440-48-4	**Cobalt**	**6.18**		mg/kg dry	0.488	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:28	JAM
7440-50-8	**Copper**	**10.8**		mg/kg dry	2.44	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:28	JAM

Sample Information

Client Sample ID: **Soil Boring 9 (15-16feet)-17** **York Sample ID:** **20A0318-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 4:00 pm	01/09/2020

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	**Iron**	**12600**		mg/kg dry	30.5	1	EPA 6010D	01/10/2020 10:20	01/15/2020 16:28	JAM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-92-1	**Lead**	**5.27**		mg/kg dry	0.609	1	EPA 6010D	01/10/2020 10:20	01/15/2020 16:28	JAM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-95-4	**Magnesium**	**5060**		mg/kg dry	6.09	1	EPA 6010D	01/10/2020 10:20	01/15/2020 16:28	JAM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	**Manganese**	**225**		mg/kg dry	0.609	1	EPA 6010D	01/10/2020 10:20	01/15/2020 16:28	JAM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	**Nickel**	**15.7**		mg/kg dry	1.22	1	EPA 6010D	01/10/2020 10:20	01/15/2020 16:28	JAM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**2620**	B	mg/kg dry	6.09	1	EPA 6010D	01/10/2020 10:20	01/15/2020 16:28	JAM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	Selenium	ND		mg/kg dry	3.05	1	EPA 6010D	01/10/2020 10:20	01/15/2020 16:28	JAM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/kg dry	0.609	1	EPA 6010D	01/10/2020 10:20	01/15/2020 16:28	JAM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**170**		mg/kg dry	60.9	1	EPA 6010D	01/10/2020 10:20	01/15/2020 16:28	JAM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		mg/kg dry	3.05	1	EPA 6010D	01/10/2020 10:20	01/15/2020 16:28	JAM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-62-2	**Vanadium**	**21.8**		mg/kg dry	1.22	1	EPA 6010D	01/10/2020 10:20	01/15/2020 16:28	JAM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	**Zinc**	**35.5**		mg/kg dry	3.05	1	EPA 6010D	01/10/2020 10:20	01/15/2020 16:28	JAM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0366	1	EPA 7473	01/10/2020 12:00	01/10/2020 13:18	SY
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.609	1	EPA 9014/9010C	01/10/2020 08:48	01/10/2020 15:42	JAG
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

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

Sample Information

Client Sample ID: **Soil Boring 9 (15-16feet)-17** **York Sample ID:** **20A0318-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 4:00 pm	01/09/2020

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**82.0**		%	0.100	1	SM 2540G Certifications: CTDOH	01/14/2020 15:51	01/15/2020 10:22	JAG

Sample Information

Client Sample ID: **Soil Boring 9 (15-16feet)-17 VOC** **York Sample ID:** **20A0318-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 4:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:47	01/15/2020 03:13	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	01/14/2020 06:47	01/15/2020 03:13	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:47	01/15/2020 03:13	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ

Sample Information

Client Sample ID: **Soil Boring 9 (15-16feet)-17 VOC** **York Sample ID:** **20A0318-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 4:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 03:13	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 03:13	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 03:13	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 03:13	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 03:13	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 03:13	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
123-91-1	1,4-Dioxane	ND		ug/kg dry	65	130	1	EPA 8260C	01/14/2020 06:47	01/15/2020 03:13	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
78-93-3	2-Butanone	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 03:13	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
591-78-6	2-Hexanone	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 03:13	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 03:13	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
67-64-1	**Acetone**	**17**		ug/kg dry	6.5	13	1	EPA 8260C	01/14/2020 06:47	01/15/2020 03:13	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-02-8	Acrolein	ND		ug/kg dry	6.5	13	1	EPA 8260C	01/14/2020 06:47	01/15/2020 03:13	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-13-1	Acrylonitrile	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 03:13	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
71-43-2	Benzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 03:13	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-97-5	Bromochloromethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 03:13	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 03:13	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-25-2	Bromoform	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 03:13	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-83-9	Bromomethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 03:13	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-15-0	Carbon disulfide	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 03:13	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 03:13	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-90-7	Chlorobenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 03:13	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

Sample Information

Client Sample ID: **Soil Boring 9 (15-16feet)-17 VOC** **York Sample ID:** **20A0318-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 4:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
67-66-3	**Chloroform**	**3.8**	J	ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
74-87-3	Chloromethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
110-82-7	Cyclohexane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 03:13	LLJ
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 03:13	LLJ
74-95-3	Dibromomethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 03:13	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 03:13	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 03:13	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
79-20-9	Methyl acetate	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 03:13	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 03:13	LLJ
75-09-2	Methylene chloride	ND		ug/kg dry	6.5	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 03:13	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.5	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 03:13	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ

Sample Information

Client Sample ID: **Soil Boring 9 (15-16feet)-17 VOC** **York Sample ID:** **20A0318-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 4:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
100-42-5	Styrene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 03:13	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
108-88-3	Toluene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH	01/14/2020 06:47	01/15/2020 03:13	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.8	20	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:13	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*98.0 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*97.1 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*101 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**cyclohexanone isomer**	**7.0**		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:47	01/15/2020 03:13	LLJ
NA	**dimethyl naphthalene isomers**	**15**		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:47	01/15/2020 03:13	LLJ

Sample Information

Client Sample ID: **Soil Boring 9 (15-16feet)-17 VOC** **York Sample ID:** **20A0318-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 3, 2020 4:00 pm	01/09/2020

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**76.5**		%	0.100	1	SM 2540G Certifications: CTDOH	01/16/2020 16:38	01/16/2020 16:44	WL

Sample Information

Client Sample ID: **Soil Boring 9 (2-3feet)-18** **York Sample ID:** **20A0318-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 8:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	96.0	192	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	96.0	192	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	96.0	192	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW

Sample Information

Client Sample ID: **Soil Boring 9 (2-3feet)-18** **York Sample ID:** **20A0318-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 8:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-57-8	2-Chlorophenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		ug/kg dry	96.0	192	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		ug/kg dry	96.0	192	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	96.0	192	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-01-6	4-Nitroaniline	ND		ug/kg dry	96.0	192	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		ug/kg dry	96.0	192	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
83-32-9	Acenaphthene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	Acenaphthylene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 9 (2-3feet)-18** **York Sample ID:** **20A0318-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 8:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
62-53-3	Aniline	ND		ug/kg dry	192	385	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
120-12-7	Anthracene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
1912-24-9	Atrazine	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	192	385	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
65-85-0	Benzoic acid	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
100-51-6	Benzyl alcohol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
105-60-2	Caprolactam	ND		ug/kg dry	96.0	192	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
86-74-8	Carbazole	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
218-01-9	Chrysene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW

Sample Information

Client Sample ID: **Soil Boring 9 (2-3feet)-18** **York Sample ID:** **20A0318-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 8:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
132-64-9	Dibenzofuran	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	Fluoranthene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	Fluorene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
118-74-1	Hexachlorobenzene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
67-72-1	Hexachloroethane	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	Naphthalene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-95-3	Nitrobenzene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-86-5	Pentachlorophenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
85-01-8	Phenanthrene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-95-2	Phenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 15:40	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 9 (2-3feet)-18** **York Sample ID:** **20A0318-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 8:00 am	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	Pyrene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 15:40	OW

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*74.4 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*78.7 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*83.4 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*79.5 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*91.4 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*88.7 %*	*24-116*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Unknown aliphatic hydrocarbon**	**2300**	J	ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 15:40	OW

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.94	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:11	CM
72-55-9	4,4'-DDE	ND		ug/kg dry	1.94	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:11	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	1.94	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:11	CM
309-00-2	Aldrin	ND		ug/kg dry	1.94	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:11	CM
319-84-6	alpha-BHC	ND		ug/kg dry	1.94	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:11	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.94	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 13:40	01/15/2020 15:11	CM
319-85-7	beta-BHC	ND		ug/kg dry	1.94	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:11	CM
57-74-9	Chlordane, total	ND		ug/kg dry	38.7	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:11	CM
319-86-8	delta-BHC	ND		ug/kg dry	1.94	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:11	CM

Sample Information

Client Sample ID: **Soil Boring 9 (2-3feet)-18** **York Sample ID:** **20A0318-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 8:00 am	01/09/2020

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
60-57-1	Dieldrin	ND		ug/kg dry	1.94	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:11	CM
959-98-8	Endosulfan I	ND		ug/kg dry	1.94	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:11	CM
33213-65-9	Endosulfan II	ND		ug/kg dry	1.94	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	01/13/2020 13:40	01/15/2020 15:11	CM
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.94	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:11	CM
72-20-8	Endrin	ND		ug/kg dry	1.94	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:11	CM
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.94	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:11	CM
53494-70-5	Endrin ketone	ND		ug/kg dry	1.94	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:11	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.94	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:11	CM
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.94	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 13:40	01/15/2020 15:11	CM
76-44-8	Heptachlor	ND		ug/kg dry	1.94	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:11	CM
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.94	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:11	CM
72-43-5	Methoxychlor	ND		ug/kg dry	9.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:11	CM
8001-35-2	Toxaphene	ND		ug/kg dry	98.0	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 15:11	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*53.4 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*58.0 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0196	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:26	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0196	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:26	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0196	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:26	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0196	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:26	SR

Sample Information

Client Sample ID: **Soil Boring 9 (2-3feet)-18** **York Sample ID:** **20A0318-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 8:00 am	01/09/2020

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0196	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:26	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0196	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:26	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0196	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:26	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0196	1	EPA 8082A Certifications:	01/13/2020 13:40	01/15/2020 16:26	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*78.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*83.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9900**		mg/kg dry	5.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:35	JAM
7440-36-0	Antimony	ND		mg/kg dry	2.96	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:35	JAM
7440-38-2	**Arsenic**	**2.65**		mg/kg dry	1.78	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:35	JAM
7440-39-3	**Barium**	**55.0**		mg/kg dry	2.96	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:35	JAM
7440-41-7	Beryllium	ND		mg/kg dry	0.059	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:35	JAM
7440-43-9	Cadmium	ND		mg/kg dry	0.356	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:35	JAM
7440-70-2	**Calcium**	**1160**		mg/kg dry	5.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:35	JAM
7440-47-3	**Chromium**	**15.8**		mg/kg dry	0.593	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:35	JAM
7440-48-4	**Cobalt**	**5.65**		mg/kg dry	0.474	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:35	JAM
7440-50-8	**Copper**	**9.21**		mg/kg dry	2.37	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:35	JAM
7439-89-6	**Iron**	**11900**		mg/kg dry	29.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:35	JAM
7439-92-1	**Lead**	**7.13**		mg/kg dry	0.593	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:35	JAM
7439-95-4	**Magnesium**	**2650**		mg/kg dry	5.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:35	JAM
7439-96-5	**Manganese**	**282**		mg/kg dry	0.593	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:35	JAM

Sample Information

Client Sample ID: **Soil Boring 9 (2-3feet)-18** **York Sample ID:** **20A0318-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 8:00 am	01/09/2020

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	**Nickel**	**12.7**		mg/kg dry	1.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:35	JAM
7440-09-7	**Potassium**	**1330**	B	mg/kg dry	5.93	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:35	JAM
7782-49-2	Selenium	ND		mg/kg dry	2.96	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:35	JAM
7440-22-4	Silver	ND		mg/kg dry	0.593	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:35	JAM
7440-23-5	**Sodium**	**156**		mg/kg dry	59.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:35	JAM
7440-28-0	Thallium	ND		mg/kg dry	2.96	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:35	JAM
7440-62-2	**Vanadium**	**18.1**		mg/kg dry	1.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:35	JAM
7440-66-6	**Zinc**	**28.7**		mg/kg dry	2.96	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:35	JAM

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0466**		mg/kg dry	0.0356	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	01/10/2020 12:00	01/10/2020 13:27	SY

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.593	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/10/2020 08:48	01/10/2020 15:42	JAG

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**84.3**		%	0.100	1	SM 2540G Certifications: CTDOH	01/14/2020 15:51	01/15/2020 10:22	JAG

Sample Information

Client Sample ID: **Soil Boring 9 (2-3feet)-18 VOC** **York Sample ID:** **20A0318-16**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 8:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 03:39	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	01/14/2020 06:47	01/15/2020 03:39	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 03:39	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	62	120	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 03:39	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ

Sample Information

Client Sample ID: **Soil Boring 9 (2-3feet)-18 VOC** **York Sample ID:** **20A0318-16**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 8:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
67-64-1	**Acetone**	**21**		ug/kg dry	6.2	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
107-02-8	Acrolein	ND		ug/kg dry	6.2	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
107-13-1	Acrylonitrile	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
71-43-2	Benzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
74-97-5	Bromochloromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 03:39	LLJ
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
75-25-2	Bromoform	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
74-83-9	Bromomethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
75-15-0	Carbon disulfide	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
75-00-3	Chloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
67-66-3	Chloroform	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
74-87-3	Chloromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
110-82-7	Cyclohexane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 03:39	LLJ
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 03:39	LLJ
74-95-3	Dibromomethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 03:39	LLJ

Sample Information

Client Sample ID: **Soil Boring 9 (2-3feet)-18 VOC** **York Sample ID:** **20A0318-16**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 8:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 03:39	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 03:39	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
79-20-9	**Methyl acetate**	**5.7**	J	ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 03:39	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 03:39	LLJ
75-09-2	Methylene chloride	ND		ug/kg dry	6.2	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 03:39	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.2	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 03:39	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
100-42-5	Styrene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 03:39	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
108-88-3	Toluene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ

Sample Information

Client Sample ID: **Soil Boring 9 (2-3feet)-18 VOC** **York Sample ID:** **20A0318-16**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 8:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH	01/14/2020 06:47	01/15/2020 03:39	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.3	19	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 03:39	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*98.7 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.2 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**dimethyl Benzene isomer**	**7.0**		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:47	01/15/2020 03:39	LLJ
NA	**Methyl Hexane isomer**	**7.6**		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:47	01/15/2020 03:39	LLJ

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**80.7**		%	0.100	1	SM 2540G Certifications: CTDOH	01/16/2020 16:38	01/16/2020 16:44	WL

Sample Information

Client Sample ID: **Soil Boring 10 (4-5feet)-19** **York Sample ID:** **20A0318-17**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 am	01/09/2020

Sample Information

Client Sample ID: **Soil Boring 10 (4-5feet)-19** **York Sample ID:** **20A0318-17**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	104	208	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	104	208	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	104	208	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
95-57-8	2-Chlorophenol	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
95-48-7	2-Methylphenol	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
88-74-4	2-Nitroaniline	ND		ug/kg dry	104	208	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
88-75-5	2-Nitrophenol	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW

Sample Information

Client Sample ID: **Soil Boring 10 (4-5feet)-19** **York Sample ID:** **20A0318-17**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
99-09-2	3-Nitroaniline	ND		ug/kg dry	104	208	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	104	208	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
106-47-8	4-Chloroaniline	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
100-01-6	4-Nitroaniline	ND		ug/kg dry	104	208	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
100-02-7	4-Nitrophenol	ND		ug/kg dry	104	208	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
83-32-9	Acenaphthene	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
208-96-8	Acenaphthylene	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
98-86-2	Acetophenone	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
62-53-3	Aniline	ND		ug/kg dry	209	418	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
120-12-7	Anthracene	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
1912-24-9	Atrazine	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	52.3	104	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	209	418	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
56-55-3	**Benzo(a)anthracene**	**80.1**	J	ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
50-32-8	**Benzo(a)pyrene**	**81.7**	J	ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
205-99-2	**Benzo(b)fluoranthene**	**66.7**	J	ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW

Sample Information

Client Sample ID: **Soil Boring 10 (4-5feet)-19** **York Sample ID:** **20A0318-17**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	**Benzo(k)fluoranthene**	**63.4**	J	ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
65-85-0	Benzoic acid	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
100-51-6	Benzyl alcohol	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
105-60-2	Caprolactam	ND		ug/kg dry	104	208	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
86-74-8	Carbazole	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
218-01-9	**Chrysene**	**82.6**	J	ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
132-64-9	Dibenzofuran	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
84-66-2	Diethyl phthalate	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
131-11-3	Dimethyl phthalate	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
206-44-0	**Fluoranthene**	**173**		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
86-73-7	Fluorene	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
118-74-1	Hexachlorobenzene	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW

Sample Information

Client Sample ID: **Soil Boring 10 (4-5feet)-19** **York Sample ID:** **20A0318-17**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 am	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
193-39-5	**Indeno(1,2,3-cd)pyrene**	**57.5**	J	ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
78-59-1	Isophorone	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
91-20-3	Naphthalene	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
98-95-3	Nitrobenzene	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
85-01-8	**Phenanthrene**	**125**		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
108-95-2	Phenol	ND		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW
129-00-0	**Pyrene**	**155**		ug/kg dry	52.3	104	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:12	OW

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*68.8 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*76.1 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*76.4 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*78.8 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*86.9 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*82.3 %*	*24-116*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 16:12	OW

Sample Information

Client Sample ID: **Soil Boring 10 (4-5feet)-19** **York Sample ID:** **20A0318-17**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 am	01/09/2020

Pesticides, 8081 target list **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	**4,4'-DDD**	**5.82**		ug/kg dry	2.08	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:47	CM
72-55-9	4,4'-DDE	ND		ug/kg dry	2.08	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:47	CM
50-29-3	**4,4'-DDT**	**29.3**		ug/kg dry	2.08	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:47	CM
309-00-2	Aldrin	ND		ug/kg dry	2.08	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:47	CM
319-84-6	alpha-BHC	ND		ug/kg dry	2.08	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:47	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.08	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 13:40	01/15/2020 13:47	CM
319-85-7	beta-BHC	ND		ug/kg dry	2.08	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:47	CM
57-74-9	Chlordane, total	ND		ug/kg dry	41.6	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:47	CM
319-86-8	delta-BHC	ND		ug/kg dry	2.08	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:47	CM
60-57-1	Dieldrin	ND		ug/kg dry	2.08	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:47	CM
959-98-8	Endosulfan I	ND		ug/kg dry	2.08	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:47	CM
33213-65-9	Endosulfan II	ND		ug/kg dry	2.08	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	01/13/2020 13:40	01/15/2020 13:47	CM
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.08	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:47	CM
72-20-8	Endrin	ND		ug/kg dry	2.08	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:47	CM
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.08	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:47	CM
53494-70-5	Endrin ketone	ND		ug/kg dry	2.08	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:47	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.08	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:47	CM
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.08	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 13:40	01/15/2020 13:47	CM
76-44-8	Heptachlor	ND		ug/kg dry	2.08	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:47	CM
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.08	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:47	CM
72-43-5	Methoxychlor	ND		ug/kg dry	10.4	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:47	CM

Sample Information

Client Sample ID: **Soil Boring 10 (4-5feet)-19** **York Sample ID:** **20A0318-17**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 am	01/09/2020

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND		ug/kg dry	105	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 13:47	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*65.4 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*74.8 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0210	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:40	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0210	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:40	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0210	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:40	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0210	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:40	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0210	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:40	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0210	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:40	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0210	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:40	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0210	1	EPA 8082A Certifications:	01/13/2020 13:40	01/15/2020 16:40	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*85.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*76.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8350**		mg/kg dry	6.36	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:42	JAM
7440-36-0	Antimony	ND		mg/kg dry	3.18	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:42	JAM
7440-38-2	**Arsenic**	**3.15**		mg/kg dry	1.91	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:42	JAM

Sample Information

Client Sample ID: **Soil Boring 10 (4-5feet)-19** **York Sample ID:** **20A0318-17**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 am	01/09/2020

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-39-3	**Barium**	**133**		mg/kg dry	3.18	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:42	JAM
7440-41-7	Beryllium	ND		mg/kg dry	0.064	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:42	JAM
7440-43-9	Cadmium	ND		mg/kg dry	0.382	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:42	JAM
7440-70-2	**Calcium**	**8030**		mg/kg dry	6.36	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:42	JAM
7440-47-3	**Chromium**	**16.0**		mg/kg dry	0.636	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:42	JAM
7440-48-4	**Cobalt**	**6.84**		mg/kg dry	0.509	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:42	JAM
7440-50-8	**Copper**	**25.8**		mg/kg dry	2.54	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:42	JAM
7439-89-6	**Iron**	**12800**		mg/kg dry	31.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:42	JAM
7439-92-1	**Lead**	**85.8**		mg/kg dry	0.636	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:42	JAM
7439-95-4	**Magnesium**	**4120**		mg/kg dry	6.36	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:42	JAM
7439-96-5	**Manganese**	**239**		mg/kg dry	0.636	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:42	JAM
7440-02-0	**Nickel**	**16.1**		mg/kg dry	1.27	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:42	JAM
7440-09-7	**Potassium**	**2100**	B	mg/kg dry	6.36	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:42	JAM
7782-49-2	Selenium	ND		mg/kg dry	3.18	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:42	JAM
7440-22-4	Silver	ND		mg/kg dry	0.636	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:42	JAM
7440-23-5	**Sodium**	**183**		mg/kg dry	63.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:42	JAM
7440-28-0	Thallium	ND		mg/kg dry	3.18	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:42	JAM
7440-62-2	**Vanadium**	**20.3**		mg/kg dry	1.27	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:42	JAM
7440-66-6	**Zinc**	**73.2**		mg/kg dry	3.18	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:42	JAM

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.266**		mg/kg dry	0.0382	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	01/10/2020 12:00	01/10/2020 13:58	SY

Sample Information

Client Sample ID: **Soil Boring 10 (4-5feet)-19** **York Sample ID:** **20A0318-17**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 am	01/09/2020

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.636	1	EPA 9014/9010C	01/10/2020 08:48	01/10/2020 15:42	JAG
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**78.6**		%	0.100	1	SM 2540G	01/14/2020 15:51	01/15/2020 10:22	JAG
							Certifications: CTDOH			

Sample Information

Client Sample ID: **Soil Boring 10 (4-5feet)-19 VOC** **York Sample ID:** **20A0318-18**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE			
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP			

Sample Information

Client Sample ID: **Soil Boring 10 (4-5feet)-19 VOC** **York Sample ID:** **20A0318-18**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
123-91-1	1,4-Dioxane	ND		ug/kg dry	60	120	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
78-93-3	2-Butanone	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
591-78-6	2-Hexanone	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
67-64-1	**Acetone**	**29**		ug/kg dry	6.0	12	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-02-8	Acrolein	ND		ug/kg dry	6.0	12	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-13-1	Acrylonitrile	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
71-43-2	Benzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-97-5	Bromochloromethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-25-2	Bromoform	ND		ug/kg dry	3.0	6.0	1	EPA 8260C	01/14/2020 06:47	01/15/2020 04:05	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

Sample Information

Client Sample ID: **Soil Boring 10 (4-5feet)-19 VOC** **York Sample ID:** **20A0318-18**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ
75-15-0	Carbon disulfide	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ
75-00-3	Chloroethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ
67-66-3	Chloroform	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ
74-87-3	Chloromethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ
110-82-7	Cyclohexane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 04:05	LLJ
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 04:05	LLJ
74-95-3	Dibromomethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 04:05	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 04:05	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 04:05	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ
79-20-9	Methyl acetate	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 04:05	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 04:05	LLJ
75-09-2	**Methylene chloride**	**22**		ug/kg dry	6.0	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ

Sample Information

Client Sample ID: **Soil Boring 10 (4-5feet)-19 VOC** **York Sample ID:** **20A0318-18**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 04:05	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.0	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 04:05	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ
100-42-5	Styrene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 04:05	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ
108-88-3	Toluene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH	01/14/2020 06:47	01/15/2020 04:05	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.9	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:05	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*109 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*97.4 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*101 %*	*76-130*

Sample Information

Client Sample ID: **Soil Boring 10 (4-5feet)-19 VOC** **York Sample ID:** **20A0318-18**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 am	01/09/2020

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:47	01/15/2020 04:05	LLJ

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**84.0**		%	0.100	1	SM 2540G Certifications: CTDOH	01/16/2020 16:38	01/16/2020 16:44	WL

Sample Information

Client Sample ID: **Soil Boring 10 (6-7feet)-20** **York Sample ID:** **20A0318-19**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 10:00 am	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	102	203	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	102	203	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW

Sample Information

Client Sample ID: **Soil Boring 10 (6-7feet)-20** **York Sample ID:** **20A0318-19**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 10:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	51.0	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:43	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	51.0	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:43	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	102	203	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:43	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	51.0	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:43	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	51.0	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:43	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	51.0	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:43	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-57-8	2-Chlorophenol	ND		ug/kg dry	51.0	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:43	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	51.0	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:43	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		ug/kg dry	51.0	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:43	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		ug/kg dry	102	203	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:43	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		ug/kg dry	51.0	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:43	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	51.0	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:43	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	51.0	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:43	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		ug/kg dry	102	203	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:43	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	102	203	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:43	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	51.0	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:43	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	51.0	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:43	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		ug/kg dry	51.0	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:43	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	51.0	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:43	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-01-6	4-Nitroaniline	ND		ug/kg dry	102	203	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:43	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		ug/kg dry	102	203	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:43	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 10 (6-7feet)-20** **York Sample ID:** **20A0318-19**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 10:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
208-96-8	Acenaphthylene	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
98-86-2	Acetophenone	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
62-53-3	Aniline	ND		ug/kg dry	204	408	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
120-12-7	**Anthracene**	**55.3**	J	ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
1912-24-9	Atrazine	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	51.0	102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	204	408	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
56-55-3	**Benzo(a)anthracene**	**133**		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
50-32-8	**Benzo(a)pyrene**	**125**		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
205-99-2	**Benzo(b)fluoranthene**	**100**	J	ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
191-24-2	**Benzo(g,h,i)perylene**	**68.3**	J	ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
207-08-9	**Benzo(k)fluoranthene**	**105**		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
65-85-0	Benzoic acid	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
100-51-6	Benzyl alcohol	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
105-60-2	Caprolactam	ND		ug/kg dry	102	203	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
86-74-8	Carbazole	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW

Sample Information

Client Sample ID: **Soil Boring 10 (6-7feet)-20** **York Sample ID:** **20A0318-19**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 10:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
218-01-9	**Chrysene**	**159**		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
132-64-9	Dibenzofuran	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
84-66-2	Diethyl phthalate	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
131-11-3	Dimethyl phthalate	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
206-44-0	**Fluoranthene**	**388**		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
86-73-7	Fluorene	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
118-74-1	Hexachlorobenzene	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
67-72-1	Hexachloroethane	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
193-39-5	**Indeno(1,2,3-cd)pyrene**	**73.2**	J	ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
78-59-1	Isophorone	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
91-20-3	Naphthalene	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
98-95-3	Nitrobenzene	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
85-01-8	**Phenanthrene**	**382**		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW

Sample Information

Client Sample ID: **Soil Boring 10 (6-7feet)-20** **York Sample ID:** **20A0318-19**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 10:00 am	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW
129-00-0	**Pyrene**	**316**		ug/kg dry	51.0	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:43	OW

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*80.2 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*82.0 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*83.3 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*77.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*92.8 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*85.4 %*	*24-116*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 16:43	OW

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.01	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:04	CM
72-55-9	4,4'-DDE	ND		ug/kg dry	2.01	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:04	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	2.01	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:04	CM
309-00-2	Aldrin	ND		ug/kg dry	2.01	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:04	CM
319-84-6	alpha-BHC	ND		ug/kg dry	2.01	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:04	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.01	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 13:40	01/15/2020 14:04	CM
319-85-7	beta-BHC	ND		ug/kg dry	2.01	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:04	CM
57-74-9	Chlordane, total	ND		ug/kg dry	40.3	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:04	CM

Sample Information

Client Sample ID: **Soil Boring 10 (6-7feet)-20** **York Sample ID:** **20A0318-19**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 10:00 am	01/09/2020

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-86-8	delta-BHC	ND		ug/kg dry	2.01	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:04	CM
60-57-1	Dieldrin	ND		ug/kg dry	2.01	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:04	CM
959-98-8	Endosulfan I	ND		ug/kg dry	2.01	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:04	CM
33213-65-9	Endosulfan II	ND		ug/kg dry	2.01	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	01/13/2020 13:40	01/15/2020 14:04	CM
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.01	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:04	CM
72-20-8	Endrin	ND		ug/kg dry	2.01	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:04	CM
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.01	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:04	CM
53494-70-5	Endrin ketone	ND		ug/kg dry	2.01	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:04	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.01	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:04	CM
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.01	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 13:40	01/15/2020 14:04	CM
76-44-8	Heptachlor	ND		ug/kg dry	2.01	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:04	CM
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.01	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:04	CM
72-43-5	Methoxychlor	ND		ug/kg dry	10.1	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:04	CM
8001-35-2	Toxaphene	ND		ug/kg dry	102	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:04	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*72.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*78.5 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0203	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:53	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0203	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:53	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0203	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:53	SR

Sample Information

Client Sample ID: **Soil Boring 10 (6-7feet)-20** **York Sample ID:** **20A0318-19**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 10:00 am	01/09/2020

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0203	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:53	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0203	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:53	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0203	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:53	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0203	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 16:53	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0203	1	EPA 8082A Certifications:	01/13/2020 13:40	01/15/2020 16:53	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*87.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*78.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**15100**		mg/kg dry	6.20	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:49	JAM
7440-36-0	Antimony	ND		mg/kg dry	3.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:49	JAM
7440-38-2	**Arsenic**	**5.10**		mg/kg dry	1.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:49	JAM
7440-39-3	**Barium**	**308**		mg/kg dry	3.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:49	JAM
7440-41-7	Beryllium	ND		mg/kg dry	0.062	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:49	JAM
7440-43-9	**Cadmium**	**0.431**		mg/kg dry	0.372	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:49	JAM
7440-70-2	**Calcium**	**7480**		mg/kg dry	6.20	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:49	JAM
7440-47-3	**Chromium**	**28.5**		mg/kg dry	0.620	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:49	JAM
7440-48-4	**Cobalt**	**11.3**		mg/kg dry	0.496	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:49	JAM
7440-50-8	**Copper**	**91.9**		mg/kg dry	2.48	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:49	JAM
7439-89-6	**Iron**	**20800**		mg/kg dry	31.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:49	JAM
7439-92-1	**Lead**	**67.0**		mg/kg dry	0.620	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:49	JAM
7439-95-4	**Magnesium**	**9530**		mg/kg dry	6.20	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:49	JAM

Sample Information

Client Sample ID: **Soil Boring 10 (6-7feet)-20** **York Sample ID:** **20A0318-19**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 10:00 am	01/09/2020

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	**Manganese**	**519**		mg/kg dry	0.620	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:49	JAM
7440-02-0	**Nickel**	**22.0**		mg/kg dry	1.24	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:49	JAM
7440-09-7	**Potassium**	**4760**	B	mg/kg dry	6.20	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:49	JAM
7782-49-2	Selenium	ND		mg/kg dry	3.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:49	JAM
7440-22-4	Silver	ND		mg/kg dry	0.620	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:49	JAM
7440-23-5	**Sodium**	**302**		mg/kg dry	62.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:49	JAM
7440-28-0	Thallium	ND		mg/kg dry	3.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:49	JAM
7440-62-2	**Vanadium**	**35.6**		mg/kg dry	1.24	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:49	JAM
7440-66-6	**Zinc**	**98.8**		mg/kg dry	3.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:49	JAM

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0516**		mg/kg dry	0.0372	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	01/10/2020 12:00	01/10/2020 14:07	SY

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.620	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 14:21	01/13/2020 19:49	STN

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**80.6**		%	0.100	1	SM 2540G Certifications: CTDOH	01/14/2020 15:51	01/15/2020 10:22	JAG

Sample Information

Client Sample ID: **Soil Boring 10 (6-7feet)-20 VOC** **York Sample ID:** **20A0318-20**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 10:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:47	01/15/2020 04:32	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	01/14/2020 06:47	01/15/2020 04:32	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:47	01/15/2020 04:32	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	57	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:47	01/15/2020 04:32	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ

Sample Information

Client Sample ID: **Soil Boring 10 (6-7feet)-20 VOC** **York Sample ID:** **20A0318-20**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 10:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
67-64-1	**Acetone**	**23**		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
107-02-8	Acrolein	ND		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
107-13-1	Acrylonitrile	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
74-97-5	Bromochloromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 04:32	LLJ
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
75-25-2	Bromoform	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
74-83-9	Bromomethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
75-15-0	Carbon disulfide	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
75-00-3	Chloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
74-87-3	Chloromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
110-82-7	Cyclohexane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 04:32	LLJ
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 04:32	LLJ
74-95-3	Dibromomethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 04:32	LLJ

Sample Information

Client Sample ID: **Soil Boring 10 (6-7feet)-20 VOC** **York Sample ID:** **20A0318-20**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 10:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 04:32	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 04:32	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
79-20-9	Methyl acetate	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 04:32	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 04:32	LLJ
75-09-2	**Methylene chloride**	**24**		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 04:32	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 04:32	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
100-42-5	Styrene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 04:32	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ

Sample Information

Client Sample ID: **Soil Boring 10 (6-7feet)-20 VOC** **York Sample ID:** **20A0318-20**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 10:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH	01/14/2020 06:47	01/15/2020 04:32	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.6	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 04:32	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*100 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*103 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:47	01/15/2020 04:32	LLJ

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**87.0**		%	0.100	1	SM 2540G Certifications: CTDOH	01/16/2020 16:38	01/16/2020 16:44	WL

Sample Information

Client Sample ID: **Soil Boring 1 (2-3feet)-1** **York Sample ID:** **20A0318-21**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 9:00 am	01/09/2020

Sample Information

Client Sample ID: **Soil Boring 1 (2-3feet)-1** **York Sample ID:** **20A0318-21**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 9:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	96.1	192	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	96.1	192	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	96.1	192	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
95-57-8	2-Chlorophenol	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
95-48-7	2-Methylphenol	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
88-74-4	2-Nitroaniline	ND		ug/kg dry	96.1	192	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
88-75-5	2-Nitrophenol	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW

Sample Information

Client Sample ID: **Soil Boring 1 (2-3feet)-1** **York Sample ID:** **20A0318-21**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 9:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
99-09-2	3-Nitroaniline	ND		ug/kg dry	96.1	192	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	96.1	192	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
106-47-8	4-Chloroaniline	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
100-01-6	4-Nitroaniline	ND		ug/kg dry	96.1	192	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
100-02-7	4-Nitrophenol	ND		ug/kg dry	96.1	192	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
83-32-9	Acenaphthene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
208-96-8	Acenaphthylene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
98-86-2	Acetophenone	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
62-53-3	Aniline	ND		ug/kg dry	193	385	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
120-12-7	Anthracene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
1912-24-9	Atrazine	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
100-52-7	Benzaldehyde	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	193	385	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW

Sample Information

Client Sample ID: **Soil Boring 1 (2-3feet)-1** **York Sample ID:** **20A0318-21**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 9:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
65-85-0	Benzoic acid	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
100-51-6	Benzyl alcohol	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
117-81-7	**Bis(2-ethylhexyl)phthalate**	**79.2**	J	ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
105-60-2	Caprolactam	ND		ug/kg dry	96.1	192	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
86-74-8	Carbazole	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
218-01-9	Chrysene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
132-64-9	Dibenzofuran	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
84-66-2	Diethyl phthalate	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
131-11-3	Dimethyl phthalate	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
206-44-0	Fluoranthene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
86-73-7	Fluorene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
118-74-1	Hexachlorobenzene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW

Sample Information

Client Sample ID: **Soil Boring 1 (2-3feet)-1** **York Sample ID:** **20A0318-21**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 9:00 am	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
67-72-1	Hexachloroethane	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
78-59-1	Isophorone	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
91-20-3	Naphthalene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
98-95-3	Nitrobenzene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
85-01-8	Phenanthrene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
108-95-2	Phenol	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW
129-00-0	Pyrene	ND		ug/kg dry	48.2	96.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/13/2020 23:47	OW

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*68.1 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*70.4 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*74.9 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*70.5 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*77.5 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*90.2 %*	*24-116*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

Sample Information

Client Sample ID: **Soil Boring 1 (2-3feet)-1** **York Sample ID:** **20A0318-21**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 9:00 am	01/09/2020

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 07:43	01/13/2020 23:47	OW

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:22	CM
72-55-9	4,4'-DDE	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:22	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:22	CM
309-00-2	Aldrin	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:22	CM
319-84-6	alpha-BHC	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:22	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 07:40	01/14/2020 13:22	CM
319-85-7	beta-BHC	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:22	CM
57-74-9	Chlordane, total	ND		ug/kg dry	38.0	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:22	CM
319-86-8	delta-BHC	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:22	CM
60-57-1	Dieldrin	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:22	CM
959-98-8	Endosulfan I	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:22	CM
33213-65-9	Endosulfan II	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	01/13/2020 07:40	01/14/2020 13:22	CM
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:22	CM
72-20-8	Endrin	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:22	CM
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:22	CM
53494-70-5	Endrin ketone	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:22	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:22	CM

Sample Information

Client Sample ID: **Soil Boring 1 (2-3feet)-1** **York Sample ID:** **20A0318-21**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 9:00 am	01/09/2020

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 07:40	01/14/2020 13:22	CM
76-44-8	Heptachlor	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:22	CM
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:22	CM
72-43-5	Methoxychlor	ND		ug/kg dry	9.51	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:22	CM
8001-35-2	Toxaphene	ND		ug/kg dry	96.3	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:22	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*85.5 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*90.4 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 07:40	01/15/2020 17:07	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 07:40	01/15/2020 17:07	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 07:40	01/15/2020 17:07	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 07:40	01/15/2020 17:07	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 07:40	01/15/2020 17:07	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 07:40	01/15/2020 17:07	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 07:40	01/15/2020 17:07	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications:	01/13/2020 07:40	01/15/2020 17:07	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*96.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*86.5 %*	*30-140*

Sample Information

Client Sample ID: **Soil Boring 1 (2-3feet)-1** **York Sample ID:** **20A0318-21**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 9:00 am	01/09/2020

Metals, Target Analyte **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**4060**		mg/kg dry	5.82	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 21:06	JAM
7440-36-0	Antimony	ND		mg/kg dry	2.91	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 21:06	JAM
7440-38-2	Arsenic	ND		mg/kg dry	1.75	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 21:06	JAM
7440-39-3	**Barium**	**20.4**		mg/kg dry	2.91	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 21:06	JAM
7440-41-7	Beryllium	ND		mg/kg dry	0.058	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 21:06	JAM
7440-43-9	Cadmium	ND		mg/kg dry	0.349	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 21:06	JAM
7440-70-2	**Calcium**	**66200**		mg/kg dry	5.82	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 21:06	JAM
7440-47-3	**Chromium**	**17.3**		mg/kg dry	0.582	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 21:06	JAM
7440-48-4	**Cobalt**	**4.72**		mg/kg dry	0.466	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 21:06	JAM
7440-50-8	**Copper**	**30.1**		mg/kg dry	2.33	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 21:06	JAM
7439-89-6	**Iron**	**10400**		mg/kg dry	29.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 21:06	JAM
7439-92-1	**Lead**	**4.61**		mg/kg dry	0.582	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 21:06	JAM
7439-95-4	**Magnesium**	**41100**		mg/kg dry	5.82	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 21:06	JAM
7439-96-5	**Manganese**	**169**		mg/kg dry	0.582	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 21:06	JAM
7440-02-0	**Nickel**	**9.56**		mg/kg dry	1.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 21:06	JAM
7440-09-7	**Potassium**	**920**	B	mg/kg dry	5.82	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 21:06	JAM
7782-49-2	Selenium	ND		mg/kg dry	2.91	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 21:06	JAM
7440-22-4	Silver	ND		mg/kg dry	0.582	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 21:06	JAM
7440-23-5	**Sodium**	**477**		mg/kg dry	58.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 21:06	JAM
7440-28-0	Thallium	ND		mg/kg dry	2.91	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 21:06	JAM
7440-62-2	**Vanadium**	**17.0**		mg/kg dry	1.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 21:06	JAM
7440-66-6	**Zinc**	**29.0**		mg/kg dry	2.91	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 21:06	JAM

Sample Information

Client Sample ID: **Soil Boring 1 (2-3feet)-1** **York Sample ID:** **20A0318-21**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 9:00 am	01/09/2020

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0349	1	EPA 7473	01/10/2020 12:00	01/10/2020 14:16	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.582	1	EPA 9014/9010C	01/13/2020 14:21	01/13/2020 19:49	STN
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**85.9**		%	0.100	1	SM 2540G	01/14/2020 16:29	01/15/2020 10:27	JAG
							Certifications: CTDOH			

Sample Information

Client Sample ID: **Soil Boring 1 (2-3feet)-1 VOC** **York Sample ID:** **20A0318-22**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 9:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.2	6.4	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			

Sample Information

Client Sample ID: **Soil Boring 1 (2-3feet)-1 VOC** **York Sample ID:** **20A0318-22**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 9:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
123-91-1	1,4-Dioxane	ND		ug/kg dry	64	130	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
78-93-3	2-Butanone	ND		ug/kg dry	3.2	6.4	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
591-78-6	2-Hexanone	ND		ug/kg dry	3.2	6.4	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	3.2	6.4	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
67-64-1	**Acetone**	**43**		ug/kg dry	6.4	13	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-02-8	Acrolein	ND		ug/kg dry	6.4	13	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-13-1	Acrylonitrile	ND		ug/kg dry	3.2	6.4	1	EPA 8260C	01/13/2020 06:57	01/13/2020 16:48	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

Sample Information

Client Sample ID: **Soil Boring 1 (2-3feet)-1 VOC** **York Sample ID:** **20A0318-22**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 9:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
74-97-5	Bromochloromethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 16:48	TMP
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
75-25-2	Bromoform	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
74-83-9	Bromomethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
75-15-0	Carbon disulfide	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
108-90-7	Chlorobenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
75-00-3	Chloroethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
67-66-3	Chloroform	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
74-87-3	Chloromethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
110-82-7	Cyclohexane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 16:48	TMP
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 16:48	TMP
74-95-3	Dibromomethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 16:48	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 16:48	TMP
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 16:48	TMP
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
79-20-9	Methyl acetate	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 16:48	TMP

Sample Information

Client Sample ID: **Soil Boring 1 (2-3feet)-1 VOC** **York Sample ID:** **20A0318-22**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 9:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 16:48	TMP
75-09-2	Methylene chloride	ND		ug/kg dry	6.4	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
95-47-6	o-Xylene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/13/2020 06:57	01/13/2020 16:48	TMP
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.4	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/13/2020 06:57	01/13/2020 16:48	TMP
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
100-42-5	Styrene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 16:48	TMP
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
108-88-3	Toluene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH	01/13/2020 06:57	01/13/2020 16:48	TMP
79-01-6	Trichloroethylene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.5	19	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 16:48	TMP

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: **Soil Boring 1 (2-3feet)-1 VOC** **York Sample ID:** **20A0318-22**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 9:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*103 %*			*77-125*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.9 %*			*85-120*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*			*76-130*						

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/kg dry			1	EPA 8260C Certifications:	01/13/2020 06:57	01/13/2020 16:48	TMP

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**78.7**		%	0.100	1	SM 2540G Certifications: CTDOH	01/16/2020 16:38	01/16/2020 16:44	WL

Sample Information

Client Sample ID: **Soil Boring 2 (4-5feet)-2** **York Sample ID:** **20A0318-23**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 10:00 am	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	95.0	190	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW

Sample Information

Client Sample ID: **Soil Boring 2 (4-5feet)-2** **York Sample ID:** **20A0318-23**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 10:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	95.0	190	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	95.0	190	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
95-57-8	2-Chlorophenol	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
95-48-7	2-Methylphenol	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
88-74-4	2-Nitroaniline	ND		ug/kg dry	95.0	190	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
88-75-5	2-Nitrophenol	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
99-09-2	3-Nitroaniline	ND		ug/kg dry	95.0	190	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	95.0	190	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW

Sample Information

Client Sample ID: **Soil Boring 2 (4-5feet)-2** **York Sample ID:** **20A0318-23**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 10:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
106-47-8	4-Chloroaniline	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
100-01-6	4-Nitroaniline	ND		ug/kg dry	95.0	190	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
100-02-7	4-Nitrophenol	ND		ug/kg dry	95.0	190	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
83-32-9	Acenaphthene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
208-96-8	Acenaphthylene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
98-86-2	Acetophenone	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
62-53-3	Aniline	ND		ug/kg dry	190	380	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
120-12-7	Anthracene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
1912-24-9	Atrazine	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
100-52-7	Benzaldehyde	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	190	380	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
65-85-0	Benzoic acid	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
100-51-6	Benzyl alcohol	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW

Sample Information

Client Sample ID: **Soil Boring 2 (4-5feet)-2** **York Sample ID:** **20A0318-23**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 10:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
117-81-7	**Bis(2-ethylhexyl)phthalate**	**134**		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
105-60-2	Caprolactam	ND		ug/kg dry	95.0	190	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
86-74-8	Carbazole	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
218-01-9	Chrysene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
132-64-9	Dibenzofuran	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
84-66-2	Diethyl phthalate	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
131-11-3	Dimethyl phthalate	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
206-44-0	Fluoranthene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
86-73-7	Fluorene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
118-74-1	Hexachlorobenzene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
67-72-1	Hexachloroethane	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
78-59-1	Isophorone	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW

Sample Information

Client Sample ID: **Soil Boring 2 (4-5feet)-2** **York Sample ID:** **20A0318-23**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 10:00 am	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
98-95-3	Nitrobenzene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
85-01-8	Phenanthrene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
108-95-2	Phenol	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW
129-00-0	Pyrene	ND		ug/kg dry	47.6	95.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:19	OW

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*66.6 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*67.2 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*76.4 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*73.8 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*82.4 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*96.6 %*	*24-116*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 07:43	01/14/2020 00:19	OW

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:39	CM

Sample Information

Client Sample ID: **Soil Boring 2 (4-5feet)-2** **York Sample ID:** **20A0318-23**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 10:00 am	01/09/2020

Pesticides, 8081 target list **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-55-9	4,4'-DDE	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:39	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:39	CM
309-00-2	Aldrin	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:39	CM
319-84-6	alpha-BHC	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:39	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 07:40	01/14/2020 13:39	CM
319-85-7	beta-BHC	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:39	CM
57-74-9	Chlordane, total	ND		ug/kg dry	37.7	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:39	CM
319-86-8	delta-BHC	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:39	CM
60-57-1	Dieldrin	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:39	CM
959-98-8	Endosulfan I	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:39	CM
33213-65-9	Endosulfan II	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	01/13/2020 07:40	01/14/2020 13:39	CM
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:39	CM
72-20-8	Endrin	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:39	CM
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:39	CM
53494-70-5	Endrin ketone	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:39	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:39	CM
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 07:40	01/14/2020 13:39	CM
76-44-8	Heptachlor	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:39	CM
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:39	CM
72-43-5	Methoxychlor	ND		ug/kg dry	9.42	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:39	CM
8001-35-2	Toxaphene	ND		ug/kg dry	95.4	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:39	CM

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: **Soil Boring 2 (4-5feet)-2** **York Sample ID:** **20A0318-23**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 10:00 am	01/09/2020

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2051-24-3	*Surrogate: Decachlorobiphenyl*	*90.1 %*			*30-150*					
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*94.2 %*			*30-150*					

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 07:40	01/15/2020 17:20	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 07:40	01/15/2020 17:20	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 07:40	01/15/2020 17:20	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 07:40	01/15/2020 17:20	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 07:40	01/15/2020 17:20	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 07:40	01/15/2020 17:20	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 07:40	01/15/2020 17:20	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications:	01/13/2020 07:40	01/15/2020 17:20	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*96.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*97.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**6300**		mg/kg dry	5.75	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:56	JAM
7440-36-0	Antimony	ND		mg/kg dry	2.88	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:56	JAM
7440-38-2	Arsenic	ND		mg/kg dry	1.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:56	JAM
7440-39-3	**Barium**	**29.6**		mg/kg dry	2.88	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:56	JAM
7440-41-7	Beryllium	ND		mg/kg dry	0.058	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:56	JAM

Sample Information

Client Sample ID: **Soil Boring 2 (4-5feet)-2** **York Sample ID:** **20A0318-23**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 10:00 am	01/09/2020

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		mg/kg dry	0.345	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:56	JAM
7440-70-2	**Calcium**	**56000**		mg/kg dry	5.75	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:56	JAM
7440-47-3	**Chromium**	**22.0**		mg/kg dry	0.575	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:56	JAM
7440-48-4	**Cobalt**	**5.91**		mg/kg dry	0.460	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:56	JAM
7440-50-8	**Copper**	**21.6**		mg/kg dry	2.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:56	JAM
7439-89-6	**Iron**	**12900**		mg/kg dry	28.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:56	JAM
7439-92-1	**Lead**	**5.14**		mg/kg dry	0.575	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:56	JAM
7439-95-4	**Magnesium**	**35200**		mg/kg dry	5.75	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:56	JAM
7439-96-5	**Manganese**	**228**		mg/kg dry	0.575	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:56	JAM
7440-02-0	**Nickel**	**17.0**		mg/kg dry	1.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:56	JAM
7440-09-7	**Potassium**	**987**	B	mg/kg dry	5.75	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:56	JAM
7782-49-2	Selenium	ND		mg/kg dry	2.88	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:56	JAM
7440-22-4	Silver	ND		mg/kg dry	0.575	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:56	JAM
7440-23-5	**Sodium**	**396**		mg/kg dry	57.5	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:56	JAM
7440-28-0	Thallium	ND		mg/kg dry	2.88	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:56	JAM
7440-62-2	**Vanadium**	**17.7**		mg/kg dry	1.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:56	JAM
7440-66-6	**Zinc**	**88.7**		mg/kg dry	2.88	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 16:56	JAM

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0345	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	01/10/2020 12:00	01/10/2020 14:25	SY

Sample Information

Client Sample ID: **Soil Boring 2 (4-5feet)-2** **York Sample ID:** **20A0318-23**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 10:00 am	01/09/2020

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.575	1	EPA 9014/9010C	01/13/2020 14:21	01/13/2020 19:49	STN
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**87.0**		%	0.100	1	SM 2540G	01/14/2020 16:29	01/15/2020 10:27	JAG
							Certifications: CTDOH			

Sample Information

Client Sample ID: **Soil Boring 2 (4-5feet)-2 VOC** **York Sample ID:** **20A0318-24**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 10:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:14	TMP
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:14	TMP
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:14	TMP
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:14	TMP
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:14	TMP
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:14	TMP
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:14	TMP
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:14	TMP
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE			
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:14	TMP
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP			

Sample Information

Client Sample ID: **Soil Boring 2 (4-5feet)-2 VOC** **York Sample ID:** **20A0318-24**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 10:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes: **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 17:14	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
123-91-1	1,4-Dioxane	ND		ug/kg dry	52	100	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 17:14	TMP
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
591-78-6	2-Hexanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
67-64-1	**Acetone**	**8.9**	J	ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
107-02-8	Acrolein	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
107-13-1	Acrylonitrile	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
71-43-2	Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
74-97-5	Bromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 17:14	TMP
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
75-25-2	Bromoform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP

Sample Information

Client Sample ID: **Soil Boring 2 (4-5feet)-2 VOC** **York Sample ID:** **20A0318-24**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 10:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
75-15-0	Carbon disulfide	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
75-00-3	Chloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
74-87-3	Chloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
110-82-7	Cyclohexane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 17:14	TMP
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 17:14	TMP
74-95-3	Dibromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 17:14	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 17:14	TMP
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 17:14	TMP
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
79-20-9	Methyl acetate	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 17:14	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 17:14	TMP
75-09-2	**Methylene chloride**	**16**		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP

Sample Information

Client Sample ID: **Soil Boring 2 (4-5feet)-2 VOC** **York Sample ID:** **20A0318-24**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 10:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/13/2020 06:57	01/13/2020 17:14	TMP
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/13/2020 06:57	01/13/2020 17:14	TMP
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
100-42-5	Styrene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 17:14	TMP
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
108-88-3	Toluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH	01/13/2020 06:57	01/13/2020 17:14	TMP
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.8	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:14	TMP

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.0 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*103 %*	*76-130*

Sample Information

Client Sample ID: **Soil Boring 2 (4-5feet)-2 VOC** **York Sample ID:** **20A0318-24**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 10:00 am	01/09/2020

Volatile Organics, Tentatively Identified Cmpds. **Log-in Notes:** **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/kg dry			1	EPA 8260C Certifications:	01/13/2020 06:57	01/13/2020 17:14	TMP

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**95.9**		%	0.100	1	SM 2540G Certifications: CTDOH	01/16/2020 16:38	01/16/2020 16:44	WL

Sample Information

Client Sample ID: **Soil Boring 2 (6-7feet)-3** **York Sample ID:** **20A0318-25**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 11:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	92.5	185	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	92.5	185	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW

Sample Information

Client Sample ID: **Soil Boring 2 (6-7feet)-3** **York Sample ID:** **20A0318-25**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 11:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	46.3	92.5	2	EPA 8270D	01/13/2020 07:43	01/14/2020 00:51	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	46.3	92.5	2	EPA 8270D	01/13/2020 07:43	01/14/2020 00:51	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	92.5	185	2	EPA 8270D	01/13/2020 07:43	01/14/2020 00:51	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D	01/13/2020 07:43	01/14/2020 00:51	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D	01/13/2020 07:43	01/14/2020 00:51	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D	01/13/2020 07:43	01/14/2020 00:51	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-57-8	2-Chlorophenol	ND		ug/kg dry	46.3	92.5	2	EPA 8270D	01/13/2020 07:43	01/14/2020 00:51	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D	01/13/2020 07:43	01/14/2020 00:51	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		ug/kg dry	46.3	92.5	2	EPA 8270D	01/13/2020 07:43	01/14/2020 00:51	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		ug/kg dry	92.5	185	2	EPA 8270D	01/13/2020 07:43	01/14/2020 00:51	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		ug/kg dry	46.3	92.5	2	EPA 8270D	01/13/2020 07:43	01/14/2020 00:51	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	46.3	92.5	2	EPA 8270D	01/13/2020 07:43	01/14/2020 00:51	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	46.3	92.5	2	EPA 8270D	01/13/2020 07:43	01/14/2020 00:51	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		ug/kg dry	92.5	185	2	EPA 8270D	01/13/2020 07:43	01/14/2020 00:51	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	92.5	185	2	EPA 8270D	01/13/2020 07:43	01/14/2020 00:51	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	46.3	92.5	2	EPA 8270D	01/13/2020 07:43	01/14/2020 00:51	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	46.3	92.5	2	EPA 8270D	01/13/2020 07:43	01/14/2020 00:51	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		ug/kg dry	46.3	92.5	2	EPA 8270D	01/13/2020 07:43	01/14/2020 00:51	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	46.3	92.5	2	EPA 8270D	01/13/2020 07:43	01/14/2020 00:51	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-01-6	4-Nitroaniline	ND		ug/kg dry	92.5	185	2	EPA 8270D	01/13/2020 07:43	01/14/2020 00:51	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		ug/kg dry	92.5	185	2	EPA 8270D	01/13/2020 07:43	01/14/2020 00:51	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 2 (6-7feet)-3** **York Sample ID:** **20A0318-25**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 11:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
208-96-8	Acenaphthylene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
98-86-2	Acetophenone	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
62-53-3	Aniline	ND		ug/kg dry	185	370	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
120-12-7	Anthracene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
1912-24-9	Atrazine	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
100-52-7	Benzaldehyde	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	185	370	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
65-85-0	Benzoic acid	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
100-51-6	Benzyl alcohol	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
85-68-7	**Benzyl butyl phthalate**	**51.0**	J	ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
117-81-7	**Bis(2-ethylhexyl)phthalate**	**128**		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
105-60-2	Caprolactam	ND		ug/kg dry	92.5	185	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
86-74-8	Carbazole	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW

Sample Information

Client Sample ID: **Soil Boring 2 (6-7feet)-3** **York Sample ID:** **20A0318-25**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 11:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
218-01-9	Chrysene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
132-64-9	Dibenzofuran	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
84-66-2	Diethyl phthalate	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
131-11-3	Dimethyl phthalate	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
206-44-0	Fluoranthene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
86-73-7	Fluorene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
118-74-1	Hexachlorobenzene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
67-72-1	Hexachloroethane	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
78-59-1	Isophorone	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
91-20-3	Naphthalene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
98-95-3	Nitrobenzene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW

Sample Information

Client Sample ID: **Soil Boring 2 (6-7feet)-3** **York Sample ID:** **20A0318-25**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 11:00 am	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	Phenanthrene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
108-95-2	Phenol	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW
129-00-0	Pyrene	ND		ug/kg dry	46.3	92.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:43	01/14/2020 00:51	OW

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*53.8 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*58.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*65.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*64.1 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*77.3 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*108 %*	*24-116*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 07:43	01/14/2020 00:51	OW

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:56	CM
72-55-9	4,4'-DDE	ND		ug/kg dry	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:56	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:56	CM
309-00-2	Aldrin	ND		ug/kg dry	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:56	CM
319-84-6	alpha-BHC	ND		ug/kg dry	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:56	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.82	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 07:40	01/14/2020 13:56	CM
319-85-7	beta-BHC	ND		ug/kg dry	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:56	CM

Sample Information

Client Sample ID: **Soil Boring 2 (6-7feet)-3** **York Sample ID:** **20A0318-25**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 11:00 am	01/09/2020

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	Chlordane, total	ND		ug/kg dry	36.5	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:56	CM
319-86-8	delta-BHC	ND		ug/kg dry	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:56	CM
60-57-1	Dieldrin	ND		ug/kg dry	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:56	CM
959-98-8	Endosulfan I	ND		ug/kg dry	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:56	CM
33213-65-9	Endosulfan II	ND		ug/kg dry	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	01/13/2020 07:40	01/14/2020 13:56	CM
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:56	CM
72-20-8	Endrin	ND		ug/kg dry	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:56	CM
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:56	CM
53494-70-5	Endrin ketone	ND		ug/kg dry	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:56	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:56	CM
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.82	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 07:40	01/14/2020 13:56	CM
76-44-8	Heptachlor	ND		ug/kg dry	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:56	CM
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:56	CM
72-43-5	Methoxychlor	ND		ug/kg dry	9.12	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:56	CM
8001-35-2	Toxaphene	ND		ug/kg dry	92.3	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 07:40	01/14/2020 13:56	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*80.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*87.2 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 07:40	01/15/2020 17:34	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 07:40	01/15/2020 17:34	SR

Sample Information

Client Sample ID: **Soil Boring 2 (6-7feet)-3** **York Sample ID:** **20A0318-25**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 11:00 am	01/09/2020

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 07:40	01/15/2020 17:34	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 07:40	01/15/2020 17:34	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 07:40	01/15/2020 17:34	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 07:40	01/15/2020 17:34	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 07:40	01/15/2020 17:34	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0184	1	EPA 8082A Certifications:	01/13/2020 07:40	01/15/2020 17:34	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*95.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*87.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**4500**		mg/kg dry	5.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 17:14	JAM
7440-36-0	Antimony	ND		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 17:14	JAM
7440-38-2	Arsenic	ND		mg/kg dry	1.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 17:14	JAM
7440-39-3	**Barium**	**38.0**		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 17:14	JAM
7440-41-7	Beryllium	ND		mg/kg dry	0.056	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 17:14	JAM
7440-43-9	Cadmium	ND		mg/kg dry	0.335	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 17:14	JAM
7440-70-2	**Calcium**	**63500**		mg/kg dry	5.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 17:14	JAM
7440-47-3	**Chromium**	**15.0**		mg/kg dry	0.558	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 17:14	JAM
7440-48-4	**Cobalt**	**8.66**		mg/kg dry	0.446	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 17:14	JAM
7440-50-8	**Copper**	**19.4**		mg/kg dry	2.23	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 17:14	JAM
7439-89-6	**Iron**	**9570**		mg/kg dry	27.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 17:14	JAM

Sample Information

Client Sample ID: **Soil Boring 2 (6-7feet)-3** **York Sample ID:** **20A0318-25**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 11:00 am	01/09/2020

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**4.56**		mg/kg dry	0.558	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 17:14	JAM
7439-95-4	**Magnesium**	**40300**		mg/kg dry	5.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 17:14	JAM
7439-96-5	**Manganese**	**510**		mg/kg dry	0.558	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 17:14	JAM
7440-02-0	**Nickel**	**11.7**		mg/kg dry	1.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 17:14	JAM
7440-09-7	**Potassium**	**931**	B	mg/kg dry	5.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 17:14	JAM
7782-49-2	**Selenium**	**3.10**		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 17:14	JAM
7440-22-4	Silver	ND		mg/kg dry	0.558	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 17:14	JAM
7440-23-5	**Sodium**	**290**		mg/kg dry	55.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 17:14	JAM
7440-28-0	Thallium	ND		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 17:14	JAM
7440-62-2	**Vanadium**	**15.6**		mg/kg dry	1.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 17:14	JAM
7440-66-6	**Zinc**	**47.4**		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:20	01/15/2020 17:14	JAM

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0335	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	01/10/2020 12:00	01/10/2020 14:34	SY

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.558	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 14:21	01/13/2020 19:49	STN

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**89.6**		%	0.100	1	SM 2540G Certifications: CTDOH	01/14/2020 16:29	01/15/2020 10:27	JAG

Sample Information

Client Sample ID: **Soil Boring 2 (6-7feet)-3** **York Sample ID:** **20A0318-25**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 11:00 am	01/09/2020

Sample Information

Client Sample ID: **Soil Boring 2 (6-7feet)-3 VOC** **York Sample ID:** **20A0318-26**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 11:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

Sample Information

Client Sample ID: **Soil Boring 2 (6-7feet)-3 VOC** **York Sample ID:** **20A0318-26**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 11:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
123-91-1	1,4-Dioxane	ND		ug/kg dry	52	100	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
591-78-6	2-Hexanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
67-64-1	**Acetone**	**10**	J	ug/kg dry	5.2	10	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-02-8	Acrolein	ND		ug/kg dry	5.2	10	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-13-1	Acrylonitrile	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
71-43-2	Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-97-5	Bromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-25-2	Bromoform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-83-9	Bromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-15-0	Carbon disulfide	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-00-3	Chloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-87-3	Chloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/13/2020 06:57	01/13/2020 17:40	TMP
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

Sample Information

Client Sample ID: **Soil Boring 2 (6-7feet)-3 VOC** **York Sample ID:** **20A0318-26**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 11:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:40	TMP
110-82-7	Cyclohexane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 17:40	TMP
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 17:40	TMP
74-95-3	Dibromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 17:40	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 17:40	TMP
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:40	TMP
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 17:40	TMP
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:40	TMP
79-20-9	Methyl acetate	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 17:40	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:40	TMP
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 17:40	TMP
75-09-2	**Methylene chloride**	**13**		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:40	TMP
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:40	TMP
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:40	TMP
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/13/2020 06:57	01/13/2020 17:40	TMP
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/13/2020 06:57	01/13/2020 17:40	TMP
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:40	TMP
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:40	TMP
100-42-5	Styrene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:40	TMP
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/13/2020 06:57	01/13/2020 17:40	TMP
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:40	TMP

Sample Information

Client Sample ID: **Soil Boring 2 (6-7feet)-3 VOC** **York Sample ID:** **20A0318-26**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 30, 2019 11:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:40	TMP
108-88-3	Toluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:40	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:40	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:40	TMP
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH	01/13/2020 06:57	01/13/2020 17:40	TMP
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:40	TMP
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:40	TMP
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:40	TMP
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.9	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/13/2020 06:57	01/13/2020 17:40	TMP

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*103 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.8 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/kg dry			1	EPA 8260C Certifications:	01/13/2020 06:57	01/13/2020 17:40	TMP

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**95.4**		%	0.100	1	SM 2540G Certifications: CTDOH	01/16/2020 16:38	01/16/2020 16:44	WL

Sample Information

Client Sample ID: **Soil Boring 3 (7-8feet)-4** **York Sample ID:** **20A0318-27**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 9:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	95.6	191	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	95.6	191	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	95.6	191	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
95-57-8	2-Chlorophenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
91-57-6	**2-Methylnaphthalene**	**86.3**	J	ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
95-48-7	2-Methylphenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
88-74-4	2-Nitroaniline	ND		ug/kg dry	95.6	191	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
88-75-5	2-Nitrophenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW

Sample Information

Client Sample ID: **Soil Boring 3 (7-8feet)-4** **York Sample ID:** **20A0318-27**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 9:00 am	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
99-09-2	3-Nitroaniline	ND		ug/kg dry	95.6	191	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	95.6	191	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
106-47-8	4-Chloroaniline	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
100-01-6	4-Nitroaniline	ND		ug/kg dry	95.6	191	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
100-02-7	4-Nitrophenol	ND		ug/kg dry	95.6	191	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
83-32-9	**Acenaphthene**	**211**		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
208-96-8	Acenaphthylene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
98-86-2	Acetophenone	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
62-53-3	Aniline	ND		ug/kg dry	191	383	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
120-12-7	**Anthracene**	**672**		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
1912-24-9	Atrazine	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	191	383	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
56-55-3	**Benzo(a)anthracene**	**913**		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
50-32-8	**Benzo(a)pyrene**	**753**		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
205-99-2	**Benzo(b)fluoranthene**	**601**		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
191-24-2	**Benzo(g,h,i)perylene**	**439**		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW

Sample Information

Client Sample ID: **Soil Boring 3 (7-8feet)-4** **York Sample ID:** **20A0318-27**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 9:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	**Benzo(k)fluoranthene**	**627**		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
65-85-0	Benzoic acid	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
100-51-6	Benzyl alcohol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
117-81-7	**Bis(2-ethylhexyl)phthalate**	**71.8**	J	ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
105-60-2	Caprolactam	ND		ug/kg dry	95.6	191	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
86-74-8	**Carbazole**	**237**		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
218-01-9	**Chrysene**	**877**		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
53-70-3	**Dibenzo(a,h)anthracene**	**108**		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
132-64-9	**Dibenzofuran**	**195**		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
84-66-2	Diethyl phthalate	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
131-11-3	Dimethyl phthalate	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
206-44-0	**Fluoranthene**	**2390**		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
86-73-7	**Fluorene**	**262**		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
118-74-1	Hexachlorobenzene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW

Sample Information

Client Sample ID: **Soil Boring 3 (7-8feet)-4** **York Sample ID:** **20A0318-27**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 9:00 am	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
193-39-5	**Indeno(1,2,3-cd)pyrene**	**468**		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
78-59-1	Isophorone	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
91-20-3	**Naphthalene**	**110**		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
98-95-3	Nitrobenzene	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
85-01-8	**Phenanthrene**	**2490**		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
108-95-2	Phenol	ND		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW
129-00-0	**Pyrene**	**1850**		ug/kg dry	47.9	95.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:15	OW

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*72.2 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*78.0 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*69.9 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*65.5 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*90.7 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*86.4 %*	*24-116*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 17:15	OW

Sample Information

Client Sample ID: **Soil Boring 3 (7-8feet)-4** **York Sample ID:** **20A0318-27**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 9:00 am	01/09/2020

Pesticides, 8081 target list **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 11:51	CM
72-55-9	4,4'-DDE	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 11:51	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 11:51	CM
309-00-2	Aldrin	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 11:51	CM
319-84-6	alpha-BHC	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 11:51	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/14/2020 08:03	01/16/2020 11:51	CM
319-85-7	beta-BHC	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 11:51	CM
57-74-9	Chlordane, total	ND		ug/kg dry	37.7	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 11:51	CM
319-86-8	delta-BHC	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 11:51	CM
60-57-1	Dieldrin	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 11:51	CM
959-98-8	Endosulfan I	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 11:51	CM
33213-65-9	Endosulfan II	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	01/14/2020 08:03	01/16/2020 11:51	CM
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 11:51	CM
72-20-8	Endrin	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 11:51	CM
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 11:51	CM
53494-70-5	Endrin ketone	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 11:51	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 11:51	CM
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/14/2020 08:03	01/16/2020 11:51	CM
76-44-8	Heptachlor	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 11:51	CM
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.88	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 11:51	CM
72-43-5	Methoxychlor	ND		ug/kg dry	9.42	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 11:51	CM

Sample Information

Client Sample ID: **Soil Boring 3 (7-8feet)-4** **York Sample ID:** **20A0318-27**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 9:00 am	01/09/2020

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND		ug/kg dry	95.4	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 11:51	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*69.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*60.3 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 23:28	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 23:28	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 23:28	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 23:28	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 23:28	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 23:28	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 23:28	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications:	01/14/2020 08:03	01/15/2020 23:28	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*92.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*95.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7010**		mg/kg dry	5.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:17	JAM
7440-36-0	Antimony	ND		mg/kg dry	2.90	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:17	JAM
7440-38-2	**Arsenic**	**6.63**		mg/kg dry	1.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:17	JAM

Sample Information

Client Sample ID: **Soil Boring 3 (7-8feet)-4** **York Sample ID:** **20A0318-27**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 9:00 am	01/09/2020

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-39-3	**Barium**	**101**		mg/kg dry	2.90	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:17	JAM
7440-41-7	Beryllium	ND		mg/kg dry	0.058	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:17	JAM
7440-43-9	**Cadmium**	**0.467**		mg/kg dry	0.348	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:17	JAM
7440-70-2	**Calcium**	**45500**		mg/kg dry	5.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:17	JAM
7440-47-3	**Chromium**	**21.7**		mg/kg dry	0.581	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:17	JAM
7440-48-4	**Cobalt**	**7.82**		mg/kg dry	0.465	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:17	JAM
7440-50-8	**Copper**	**114**		mg/kg dry	2.32	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:17	JAM
7439-89-6	**Iron**	**16300**		mg/kg dry	29.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:17	JAM
7439-92-1	**Lead**	**232**		mg/kg dry	0.581	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:17	JAM
7439-95-4	**Magnesium**	**25400**		mg/kg dry	5.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:17	JAM
7439-96-5	**Manganese**	**319**		mg/kg dry	0.581	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:17	JAM
7440-02-0	**Nickel**	**20.0**		mg/kg dry	1.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:17	JAM
7440-09-7	**Potassium**	**1340**	B	mg/kg dry	5.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:17	JAM
7782-49-2	**Selenium**	**5.70**		mg/kg dry	2.90	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:17	JAM
7440-22-4	Silver	ND		mg/kg dry	0.581	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:17	JAM
7440-23-5	**Sodium**	**360**		mg/kg dry	58.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:17	JAM
7440-28-0	Thallium	ND		mg/kg dry	2.90	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:17	JAM
7440-62-2	**Vanadium**	**27.8**		mg/kg dry	1.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:17	JAM
7440-66-6	**Zinc**	**166**		mg/kg dry	2.90	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:17	JAM

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0978**		mg/kg dry	0.0348	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	01/10/2020 12:00	01/10/2020 14:43	SY

Sample Information

Client Sample ID: **Soil Boring 3 (7-8feet)-4** **York Sample ID:** **20A0318-27**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 9:00 am	01/09/2020

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.581	1	EPA 9014/9010C	01/13/2020 14:21	01/13/2020 19:49	STN
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**86.1**		%	0.100	1	SM 2540G	01/14/2020 16:29	01/15/2020 10:27	JAG
							Certifications: CTDOH			

Sample Information

Client Sample ID: **Soil Boring 3 (7-8feet)-4 VOC** **York Sample ID:** **20A0318-28**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 9:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE			
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP			

Sample Information

Client Sample ID: **Soil Boring 3 (7-8feet)-4 VOC** **York Sample ID:** **20A0318-28**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 9:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:17	01/14/2020 14:53	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	53	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:17	01/14/2020 14:53	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
591-78-6	2-Hexanone	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
67-64-1	**Acetone**	**14**	CCV-E	ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
107-02-8	Acrolein	ND		ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
107-13-1	Acrylonitrile	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
74-97-5	Bromochloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:17	01/14/2020 14:53	LLJ
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
75-25-2	Bromoform	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ

Sample Information

Client Sample ID: **Soil Boring 3 (7-8feet)-4 VOC** **York Sample ID:** **20A0318-28**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 9:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-15-0	Carbon disulfide	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-00-3	Chloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-87-3	Chloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
110-82-7	Cyclohexane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
74-95-3	Dibromomethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
79-20-9	Methyl acetate	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-09-2	Methylene chloride	ND		ug/kg dry	5.3	11	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:53	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

Sample Information

Client Sample ID: **Soil Boring 3 (7-8feet)-4 VOC** **York Sample ID:** **20A0318-28**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 9:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:17	01/14/2020 14:53	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:17	01/14/2020 14:53	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
100-42-5	Styrene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:17	01/14/2020 14:53	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH	01/14/2020 06:17	01/14/2020 14:53	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.9	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:53	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*107 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.8 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*103 %*	*76-130*

Sample Information

Client Sample ID: **Soil Boring 3 (7-8feet)-4 VOC** **York Sample ID:** **20A0318-28**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 9:00 am	01/09/2020

Volatile Organics, Tentatively Identified Cmpds. **Log-in Notes:** **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:17	01/14/2020 14:53	LLJ

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**94.9**		%	0.100	1	SM 2540G Certifications: CTDOH	01/16/2020 16:38	01/16/2020 16:44	WL

Sample Information

Client Sample ID: **Soil Boring 3 (9-10feet)-5** **York Sample ID:** **20A0318-29**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 10:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:47	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	94.3	188	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:47	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:47	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 17:47	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:47	OW
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 17:47	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 17:47	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	94.3	188	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:47	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:47	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:47	OW

Sample Information

Client Sample ID: **Soil Boring 3 (9-10feet)-5** **York Sample ID:** **20A0318-29**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 10:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	94.3	188	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-57-8	2-Chlorophenol	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		ug/kg dry	94.3	188	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		ug/kg dry	94.3	188	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	94.3	188	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-01-6	4-Nitroaniline	ND		ug/kg dry	94.3	188	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		ug/kg dry	94.3	188	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 3 (9-10feet)-5** **York Sample ID:** **20A0318-29**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 10:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	Acenaphthylene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
62-53-3	Aniline	ND		ug/kg dry	189	378	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-12-7	Anthracene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1912-24-9	Atrazine	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	189	378	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,PADEP		
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65-85-0	Benzoic acid	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
100-51-6	Benzyl alcohol	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-60-2	Caprolactam	ND		ug/kg dry	94.3	188	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 3 (9-10feet)-5** **York Sample ID:** **20A0318-29**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 10:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-74-8	Carbazole	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
218-01-9	Chrysene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
132-64-9	Dibenzofuran	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	Fluoranthene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	Fluorene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
118-74-1	Hexachlorobenzene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
67-72-1	Hexachloroethane	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	Naphthalene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-95-3	Nitrobenzene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	47.3	94.3	2	EPA 8270D	01/13/2020 13:45	01/14/2020 17:47	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 3 (9-10feet)-5** **York Sample ID:** **20A0318-29**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 10:00 am	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-86-5	Pentachlorophenol	ND		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:47	OW
85-01-8	Phenanthrene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:47	OW
108-95-2	Phenol	ND		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:47	OW
129-00-0	Pyrene	ND		ug/kg dry	47.3	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:47	OW

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*79.2 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*81.5 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*87.4 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*77.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*96.1 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*91.1 %*	*24-116*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 17:47	OW

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 16:35	CM
72-55-9	4,4'-DDE	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 16:35	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 16:35	CM
309-00-2	Aldrin	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 16:35	CM
319-84-6	alpha-BHC	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 16:35	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/14/2020 08:03	01/15/2020 16:35	CM

Sample Information

Client Sample ID: **Soil Boring 3 (9-10feet)-5** **York Sample ID:** **20A0318-29**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 10:00 am	01/09/2020

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-85-7	beta-BHC	ND		ug/kg dry	1.85	5	EPA 8081B	01/14/2020 08:03	01/15/2020 16:35	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
57-74-9	Chlordane, total	ND		ug/kg dry	37.1	5	EPA 8081B	01/14/2020 08:03	01/15/2020 16:35	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
319-86-8	delta-BHC	ND		ug/kg dry	1.85	5	EPA 8081B	01/14/2020 08:03	01/15/2020 16:35	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
60-57-1	Dieldrin	ND		ug/kg dry	1.85	5	EPA 8081B	01/14/2020 08:03	01/15/2020 16:35	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
959-98-8	Endosulfan I	ND		ug/kg dry	1.85	5	EPA 8081B	01/14/2020 08:03	01/15/2020 16:35	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.85	5	EPA 8081B	01/14/2020 08:03	01/15/2020 16:35	CM
							Certifications:	CTDOH,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.85	5	EPA 8081B	01/14/2020 08:03	01/15/2020 16:35	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-20-8	Endrin	ND		ug/kg dry	1.85	5	EPA 8081B	01/14/2020 08:03	01/15/2020 16:35	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.85	5	EPA 8081B	01/14/2020 08:03	01/15/2020 16:35	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53494-70-5	Endrin ketone	ND		ug/kg dry	1.85	5	EPA 8081B	01/14/2020 08:03	01/15/2020 16:35	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.85	5	EPA 8081B	01/14/2020 08:03	01/15/2020 16:35	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.85	5	EPA 8081B	01/14/2020 08:03	01/15/2020 16:35	CM
							Certifications:	NELAC-NY10854,NJDEP		
76-44-8	Heptachlor	ND		ug/kg dry	1.85	5	EPA 8081B	01/14/2020 08:03	01/15/2020 16:35	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.85	5	EPA 8081B	01/14/2020 08:03	01/15/2020 16:35	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-43-5	Methoxychlor	ND		ug/kg dry	9.27	5	EPA 8081B	01/14/2020 08:03	01/15/2020 16:35	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
8001-35-2	Toxaphene	ND		ug/kg dry	93.8	5	EPA 8081B	01/14/2020 08:03	01/15/2020 16:35	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*74.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*78.1 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0187	1	EPA 8082A	01/14/2020 08:03	01/15/2020 23:41	SR
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 3 (9-10feet)-5** **York Sample ID:** **20A0318-29**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 10:00 am	01/09/2020

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 23:41	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 23:41	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 23:41	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 23:41	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 23:41	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 23:41	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications:	01/14/2020 08:03	01/15/2020 23:41	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*88.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*88.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8150**		mg/kg dry	5.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:26	JAM
7440-36-0	Antimony	ND		mg/kg dry	2.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:26	JAM
7440-38-2	**Arsenic**	**2.13**		mg/kg dry	1.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:26	JAM
7440-39-3	**Barium**	**48.0**		mg/kg dry	2.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:26	JAM
7440-41-7	Beryllium	ND		mg/kg dry	0.057	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:26	JAM
7440-43-9	Cadmium	ND		mg/kg dry	0.343	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:26	JAM
7440-70-2	**Calcium**	**2790**		mg/kg dry	5.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:26	JAM
7440-47-3	**Chromium**	**16.3**		mg/kg dry	0.571	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:26	JAM
7440-48-4	**Cobalt**	**6.20**		mg/kg dry	0.457	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:26	JAM
7440-50-8	**Copper**	**8.40**		mg/kg dry	2.28	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:26	JAM

Sample Information

Client Sample ID: **Soil Boring 3 (9-10feet)-5** **York Sample ID:** **20A0318-29**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 10:00 am	01/09/2020

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	**Iron**	**13500**		mg/kg dry	28.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:26	JAM
7439-92-1	**Lead**	**6.69**		mg/kg dry	0.571	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:26	JAM
7439-95-4	**Magnesium**	**3340**		mg/kg dry	5.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:26	JAM
7439-96-5	**Manganese**	**317**		mg/kg dry	0.571	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:26	JAM
7440-02-0	**Nickel**	**15.0**		mg/kg dry	1.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:26	JAM
7440-09-7	**Potassium**	**2130**	B	mg/kg dry	5.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:26	JAM
7782-49-2	Selenium	ND		mg/kg dry	2.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:26	JAM
7440-22-4	Silver	ND		mg/kg dry	0.571	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:26	JAM
7440-23-5	**Sodium**	**97.2**		mg/kg dry	57.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:26	JAM
7440-28-0	Thallium	ND		mg/kg dry	2.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:26	JAM
7440-62-2	**Vanadium**	**17.5**		mg/kg dry	1.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:26	JAM
7440-66-6	**Zinc**	**28.2**		mg/kg dry	2.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:26	JAM

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0343	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	01/10/2020 12:00	01/10/2020 14:52	SY

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.571	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 14:21	01/13/2020 19:49	STN

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

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

Sample Information

Client Sample ID: **Soil Boring 3 (9-10feet)-5** **York Sample ID:** **20A0318-29**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 10:00 am	01/09/2020

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**87.5**		%	0.100	1	SM 2540G Certifications: CTDOH	01/14/2020 16:29	01/15/2020 10:27	JAG

Sample Information

Client Sample ID: **Soil Boring 3 (9-10feet)-5 VOC** **York Sample ID:** **20A0318-30**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 10:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:17	01/14/2020 14:00	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	01/14/2020 06:17	01/14/2020 14:00	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:17	01/14/2020 14:00	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ

Sample Information

Client Sample ID: **Soil Boring 3 (9-10feet)-5 VOC** **York Sample ID:** **20A0318-30**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 10:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:00	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:00	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:00	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:00	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:00	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:00	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
123-91-1	1,4-Dioxane	ND		ug/kg dry	52	100	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:00	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:00	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
591-78-6	2-Hexanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:00	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:00	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
67-64-1	**Acetone**	**16**	CCV-E	ug/kg dry	5.2	10	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:00	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-02-8	Acrolein	ND		ug/kg dry	5.2	10	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:00	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-13-1	Acrylonitrile	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:00	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
71-43-2	Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:00	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-97-5	Bromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:00	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:00	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-25-2	Bromoform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:00	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-83-9	Bromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:00	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-15-0	Carbon disulfide	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:00	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:00	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/14/2020 06:17	01/14/2020 14:00	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

Sample Information

Client Sample ID: **Soil Boring 3 (9-10feet)-5 VOC** **York Sample ID:** **20A0318-30**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 10:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes: **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
74-87-3	Chloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
110-82-7	Cyclohexane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:17	01/14/2020 14:00	LLJ
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:17	01/14/2020 14:00	LLJ
74-95-3	Dibromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:17	01/14/2020 14:00	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:17	01/14/2020 14:00	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:17	01/14/2020 14:00	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
79-20-9	Methyl acetate	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:17	01/14/2020 14:00	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:17	01/14/2020 14:00	LLJ
75-09-2	**Methylene chloride**	**8.4**	J	ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:17	01/14/2020 14:00	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:17	01/14/2020 14:00	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ

Sample Information

Client Sample ID: **Soil Boring 3 (9-10feet)-5 VOC** **York Sample ID:** **20A0318-30**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 10:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes: **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
100-42-5	Styrene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:17	01/14/2020 14:00	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH	01/14/2020 06:17	01/14/2020 14:00	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.9	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:17	01/14/2020 14:00	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*115 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*97.0 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes: **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:17	01/14/2020 14:00	LLJ

Sample Information

Client Sample ID: **Soil Boring 3 (9-10feet)-5 VOC** **York Sample ID:** **20A0318-30**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	December 31, 2019 10:00 am	01/09/2020

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**95.4**		%	0.100	1	SM 2540G Certifications: CTDOH	01/16/2020 16:38	01/16/2020 16:44	WL

Sample Information

Client Sample ID: **Soil Boring 3 (11-12feet)-6** **York Sample ID:** **20A0318-31**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 9:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	93.0	186	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	93.0	186	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	93.0	186	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW

Sample Information

Client Sample ID: **Soil Boring 3 (11-12feet)-6** **York Sample ID:** **20A0318-31**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 9:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-57-8	2-Chlorophenol	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		ug/kg dry	93.0	186	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		ug/kg dry	93.0	186	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	93.0	186	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-01-6	4-Nitroaniline	ND		ug/kg dry	93.0	186	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		ug/kg dry	93.0	186	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
83-32-9	Acenaphthene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
208-96-8	Acenaphthylene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-86-2	Acetophenone	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 3 (11-12feet)-6** **York Sample ID:** **20A0318-31**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 9:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
62-53-3	Aniline	ND		ug/kg dry	186	372	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
120-12-7	Anthracene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
1912-24-9	Atrazine	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	186	372	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
56-55-3	**Benzo(a)anthracene**	**61.7**	J	ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
50-32-8	**Benzo(a)pyrene**	**49.8**	J	ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
65-85-0	Benzoic acid	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
100-51-6	Benzyl alcohol	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
105-60-2	Caprolactam	ND		ug/kg dry	93.0	186	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
86-74-8	Carbazole	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
218-01-9	**Chrysene**	**52.8**	J	ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW
132-64-9	Dibenzofuran	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:18	OW

Sample Information

Client Sample ID: **Soil Boring 3 (11-12feet)-6** **York Sample ID:** **20A0318-31**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 9:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
84-66-2	Diethyl phthalate	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	**Fluoranthene**	**132**		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	Fluorene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
118-74-1	Hexachlorobenzene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
67-72-1	Hexachloroethane	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	Naphthalene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-95-3	Nitrobenzene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-86-5	Pentachlorophenol	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
85-01-8	**Phenanthrene**	**144**		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-95-2	Phenol	ND		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
129-00-0	**Pyrene**	**98.1**		ug/kg dry	46.6	93.0	2	EPA 8270D	01/13/2020 13:45	01/14/2020 18:18	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: **Soil Boring 3 (11-12feet)-6** **York Sample ID:** **20A0318-31**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 9:00 am	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*73.0 %*			*20-108*						
4165-62-2	*Surrogate: SURR: Phenol-d5*	*77.0 %*			*23-114*						
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*75.8 %*			*22-108*						
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*69.2 %*			*21-113*						
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*82.4 %*			*19-110*						
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*76.5 %*			*24-116*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 18:18	OW

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:20	CM
72-55-9	4,4'-DDE	ND		ug/kg dry	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:20	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:20	CM
309-00-2	Aldrin	ND		ug/kg dry	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:20	CM
319-84-6	alpha-BHC	ND		ug/kg dry	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:20	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.80	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 13:40	01/15/2020 14:20	CM
319-85-7	beta-BHC	ND		ug/kg dry	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:20	CM
57-74-9	Chlordane, total	ND		ug/kg dry	36.1	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:20	CM
319-86-8	delta-BHC	ND		ug/kg dry	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:20	CM
60-57-1	Dieldrin	ND		ug/kg dry	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:20	CM
959-98-8	Endosulfan I	ND		ug/kg dry	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:20	CM

Sample Information

Client Sample ID: **Soil Boring 3 (11-12feet)-6** **York Sample ID:** **20A0318-31**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 9:00 am	01/09/2020

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
33213-65-9	Endosulfan II	ND		ug/kg dry	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	01/13/2020 13:40	01/15/2020 14:20	CM
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:20	CM
72-20-8	Endrin	ND		ug/kg dry	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:20	CM
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:20	CM
53494-70-5	Endrin ketone	ND		ug/kg dry	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:20	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:20	CM
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.80	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 13:40	01/15/2020 14:20	CM
76-44-8	Heptachlor	ND		ug/kg dry	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:20	CM
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:20	CM
72-43-5	Methoxychlor	ND		ug/kg dry	9.02	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:20	CM
8001-35-2	Toxaphene	ND		ug/kg dry	91.3	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:20	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*67.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*71.4 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 18:01	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 18:01	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 18:01	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 18:01	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 18:01	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 18:01	SR

Sample Information

Client Sample ID: **Soil Boring 3 (11-12feet)-6** **York Sample ID:** **20A0318-31**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 9:00 am	01/09/2020

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11096-82-5	**Aroclor 1260**	**0.0184**		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 18:01	SR
1336-36-3	*** Total PCBs**	**0.0184**		mg/kg dry	0.0182	1	EPA 8082A Certifications:	01/13/2020 13:40	01/15/2020 18:01	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*85.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*92.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8340**		mg/kg dry	5.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:28	JAM
7440-36-0	Antimony	ND		mg/kg dry	2.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:28	JAM
7440-38-2	**Arsenic**	**1.73**		mg/kg dry	1.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:28	JAM
7440-39-3	**Barium**	**54.2**		mg/kg dry	2.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:28	JAM
7440-41-7	Beryllium	ND		mg/kg dry	0.056	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:28	JAM
7440-43-9	Cadmium	ND		mg/kg dry	0.337	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:28	JAM
7440-70-2	**Calcium**	**1170**		mg/kg dry	5.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:28	JAM
7440-47-3	**Chromium**	**17.1**		mg/kg dry	0.561	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:28	JAM
7440-48-4	**Cobalt**	**6.65**		mg/kg dry	0.449	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:28	JAM
7440-50-8	**Copper**	**9.10**		mg/kg dry	2.24	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:28	JAM
7439-89-6	**Iron**	**13700**		mg/kg dry	28.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:28	JAM
7439-92-1	**Lead**	**8.44**		mg/kg dry	0.561	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:28	JAM
7439-95-4	**Magnesium**	**3210**		mg/kg dry	5.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:28	JAM
7439-96-5	**Manganese**	**332**		mg/kg dry	0.561	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:28	JAM
7440-02-0	**Nickel**	**15.4**		mg/kg dry	1.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:28	JAM
7440-09-7	**Potassium**	**1910**	B	mg/kg dry	5.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:28	JAM

Sample Information

Client Sample ID: **Soil Boring 3 (11-12feet)-6** **York Sample ID:** **20A0318-31**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 9:00 am	01/09/2020

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	Selenium	ND		mg/kg dry	2.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:28	JAM
7440-22-4	Silver	ND		mg/kg dry	0.561	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:28	JAM
7440-23-5	**Sodium**	**101**		mg/kg dry	56.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:28	JAM
7440-28-0	Thallium	ND		mg/kg dry	2.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:28	JAM
7440-62-2	**Vanadium**	**18.8**		mg/kg dry	1.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:28	JAM
7440-66-6	**Zinc**	**33.6**		mg/kg dry	2.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:28	JAM

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0337	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	01/10/2020 12:00	01/10/2020 15:01	SY

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.561	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/15/2020 10:50	01/15/2020 16:58	MSP

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**89.1**		%	0.100	1	SM 2540G Certifications: CTDOH	01/14/2020 16:29	01/15/2020 10:27	JAG

Sample Information

Client Sample ID: **Soil Boring 3 (11-12feet)-6 VOC** **York Sample ID:** **20A0318-32**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 9:00 am	01/09/2020

Sample Information

Client Sample ID: **Soil Boring 3 (11-12feet)-6 VOC** **York Sample ID:** **20A0318-32**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 9:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 14:21	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	01/15/2020 06:16	01/15/2020 14:21	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 14:21	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	52	100	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 14:21	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ

Sample Information

Client Sample ID: **Soil Boring 3 (11-12feet)-6 VOC** **York Sample ID:** **20A0318-32**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 9:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
67-64-1	**Acetone**	**9.4**	J	ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
107-02-8	Acrolein	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
107-13-1	Acrylonitrile	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
74-97-5	Bromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 14:21	LLJ
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
75-25-2	Bromoform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
74-83-9	Bromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
75-15-0	Carbon disulfide	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
75-00-3	Chloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
74-87-3	Chloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
110-82-7	Cyclohexane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 14:21	LLJ
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 14:21	LLJ
74-95-3	Dibromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 14:21	LLJ

Sample Information

Client Sample ID: **Soil Boring 3 (11-12feet)-6 VOC** **York Sample ID:** **20A0318-32**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 9:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 14:21	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 14:21	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
79-20-9	Methyl acetate	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 14:21	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 14:21	LLJ
75-09-2	Methylene chloride	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/15/2020 06:16	01/15/2020 14:21	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/15/2020 06:16	01/15/2020 14:21	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
100-42-5	Styrene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 14:21	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ

Sample Information

Client Sample ID: **Soil Boring 3 (11-12feet)-6 VOC** **York Sample ID:** **20A0318-32**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 9:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH	01/15/2020 06:16	01/15/2020 14:21	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.8	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:21	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.9 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/kg dry			1	EPA 8260C Certifications:	01/15/2020 06:16	01/15/2020 14:21	LLJ

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**96.0**		%	0.100	1	SM 2540G Certifications: CTDOH	01/16/2020 16:38	01/16/2020 16:44	WL

Sample Information

Client Sample ID: **Soil Boring 4 (13-14feet)-7** **York Sample ID:** **20A0318-33**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 10:00 am	01/09/2020

Sample Information

Client Sample ID: **Soil Boring 4 (13-14feet)-7** **York Sample ID:** **20A0318-33**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 10:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	107	214	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	107	214	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	107	214	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
95-57-8	2-Chlorophenol	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
95-48-7	2-Methylphenol	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
88-74-4	2-Nitroaniline	ND		ug/kg dry	107	214	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
88-75-5	2-Nitrophenol	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW

Sample Information

Client Sample ID: **Soil Boring 4 (13-14feet)-7** **York Sample ID:** **20A0318-33**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 10:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
99-09-2	3-Nitroaniline	ND		ug/kg dry	107	214	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	107	214	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
106-47-8	4-Chloroaniline	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
100-01-6	4-Nitroaniline	ND		ug/kg dry	107	214	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
100-02-7	4-Nitrophenol	ND		ug/kg dry	107	214	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
83-32-9	Acenaphthene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
208-96-8	Acenaphthylene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
98-86-2	Acetophenone	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
62-53-3	Aniline	ND		ug/kg dry	214	429	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
120-12-7	Anthracene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
1912-24-9	Atrazine	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	53.7	107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	214	429	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW

Sample Information

Client Sample ID: **Soil Boring 4 (13-14feet)-7** **York Sample ID:** **20A0318-33**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 10:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
65-85-0	Benzoic acid	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
100-51-6	Benzyl alcohol	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
105-60-2	Caprolactam	ND		ug/kg dry	107	214	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
86-74-8	Carbazole	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
218-01-9	Chrysene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
132-64-9	Dibenzofuran	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
84-66-2	Diethyl phthalate	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
131-11-3	Dimethyl phthalate	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
206-44-0	Fluoranthene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
86-73-7	Fluorene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
118-74-1	Hexachlorobenzene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW

Sample Information

Client Sample ID: **Soil Boring 4 (13-14feet)-7** **York Sample ID:** **20A0318-33**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 10:00 am	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
67-72-1	Hexachloroethane	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
78-59-1	Isophorone	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
91-20-3	Naphthalene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
98-95-3	Nitrobenzene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
85-01-8	Phenanthrene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
108-95-2	Phenol	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW
129-00-0	Pyrene	ND		ug/kg dry	53.7	107	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 18:50	OW

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*78.1 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*81.9 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*83.8 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*73.2 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*86.8 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*74.5 %*	*24-116*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

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

Sample Information

Client Sample ID: **Soil Boring 4 (13-14feet)-7** **York Sample ID:** **20A0318-33**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 10:00 am	01/09/2020

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 18:50	OW

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.11	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:37	CM
72-55-9	4,4'-DDE	ND		ug/kg dry	2.11	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:37	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	2.11	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:37	CM
309-00-2	Aldrin	ND		ug/kg dry	2.11	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:37	CM
319-84-6	alpha-BHC	ND		ug/kg dry	2.11	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:37	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.11	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 13:40	01/15/2020 14:37	CM
319-85-7	beta-BHC	ND		ug/kg dry	2.11	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:37	CM
57-74-9	Chlordane, total	ND		ug/kg dry	42.1	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:37	CM
319-86-8	delta-BHC	ND		ug/kg dry	2.11	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:37	CM
60-57-1	Dieldrin	ND		ug/kg dry	2.11	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:37	CM
959-98-8	Endosulfan I	ND		ug/kg dry	2.11	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:37	CM
33213-65-9	Endosulfan II	ND		ug/kg dry	2.11	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	01/13/2020 13:40	01/15/2020 14:37	CM
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.11	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:37	CM
72-20-8	Endrin	ND		ug/kg dry	2.11	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:37	CM
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.11	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:37	CM
53494-70-5	Endrin ketone	ND		ug/kg dry	2.11	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:37	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.11	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:37	CM

Sample Information

Client Sample ID: **Soil Boring 4 (13-14feet)-7** **York Sample ID:** **20A0318-33**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 10:00 am	01/09/2020

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.11	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/13/2020 13:40	01/15/2020 14:37	CM
76-44-8	Heptachlor	ND		ug/kg dry	2.11	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:37	CM
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.11	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:37	CM
72-43-5	Methoxychlor	ND		ug/kg dry	10.5	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:37	CM
8001-35-2	Toxaphene	ND		ug/kg dry	107	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 14:37	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*67.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*76.1 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0213	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 18:15	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0213	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 18:15	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0213	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 18:15	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0213	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 18:15	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0213	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 18:15	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0213	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 18:15	SR
11096-82-5	**Aroclor 1260**	**0.0215**		mg/kg dry	0.0213	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/13/2020 13:40	01/15/2020 18:15	SR
1336-36-3	*** Total PCBs**	**0.0215**		mg/kg dry	0.0213	1	EPA 8082A Certifications:	01/13/2020 13:40	01/15/2020 18:15	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*86.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*84.0 %*	*30-140*

Sample Information

Client Sample ID: **Soil Boring 4 (13-14feet)-7** **York Sample ID:** **20A0318-33**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 10:00 am	01/09/2020

Metals, Target Analyte **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**10600**		mg/kg dry	6.53	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:30	JAM
7440-36-0	Antimony	ND		mg/kg dry	3.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:30	JAM
7440-38-2	**Arsenic**	**2.09**		mg/kg dry	1.96	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:30	JAM
7440-39-3	**Barium**	**64.1**		mg/kg dry	3.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:30	JAM
7440-41-7	Beryllium	ND		mg/kg dry	0.065	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:30	JAM
7440-43-9	Cadmium	ND		mg/kg dry	0.392	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:30	JAM
7440-70-2	**Calcium**	**1260**		mg/kg dry	6.53	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:30	JAM
7440-47-3	**Chromium**	**15.0**		mg/kg dry	0.653	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:30	JAM
7440-48-4	**Cobalt**	**6.02**		mg/kg dry	0.522	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:30	JAM
7440-50-8	**Copper**	**12.7**		mg/kg dry	2.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:30	JAM
7439-89-6	**Iron**	**12400**		mg/kg dry	32.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:30	JAM
7439-92-1	**Lead**	**165**		mg/kg dry	0.653	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:30	JAM
7439-95-4	**Magnesium**	**3110**		mg/kg dry	6.53	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:30	JAM
7439-96-5	**Manganese**	**270**		mg/kg dry	0.653	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:30	JAM
7440-02-0	**Nickel**	**16.0**		mg/kg dry	1.31	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:30	JAM
7440-09-7	**Potassium**	**946**	B	mg/kg dry	6.53	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:30	JAM
7782-49-2	Selenium	ND		mg/kg dry	3.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:30	JAM
7440-22-4	Silver	ND		mg/kg dry	0.653	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:30	JAM
7440-23-5	**Sodium**	**337**		mg/kg dry	65.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:30	JAM
7440-28-0	Thallium	ND		mg/kg dry	3.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:30	JAM
7440-62-2	**Vanadium**	**17.9**		mg/kg dry	1.31	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:30	JAM
7440-66-6	**Zinc**	**58.6**		mg/kg dry	3.26	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:30	JAM

Sample Information

Client Sample ID: **Soil Boring 4 (13-14feet)-7** **York Sample ID:** **20A0318-33**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 10:00 am	01/09/2020

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0475**		mg/kg dry	0.0392	1	EPA 7473	01/10/2020 12:00	01/10/2020 15:10	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.653	1	EPA 9014/9010C	01/15/2020 10:50	01/15/2020 16:58	MSP
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**76.6**		%	0.100	1	SM 2540G	01/14/2020 16:29	01/15/2020 10:27	JAG
							Certifications: CTDOH			

Sample Information

Client Sample ID: **Soil Boring 4 (13-14feet)-7 VOC** **York Sample ID:** **20A0318-34**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 10:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/15/2020 06:16	01/15/2020 14:48	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/15/2020 06:16	01/15/2020 14:48	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/15/2020 06:16	01/15/2020 14:48	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/15/2020 06:16	01/15/2020 14:48	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C	01/15/2020 06:16	01/15/2020 14:48	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			

Sample Information

Client Sample ID: **Soil Boring 4 (13-14feet)-7 VOC** **York Sample ID:** **20A0318-34**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 10:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 14:48	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	01/15/2020 06:16	01/15/2020 14:48	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 14:48	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	52	100	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 14:48	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
591-78-6	2-Hexanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
67-64-1	**Acetone**	**15**		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
107-02-8	Acrolein	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
107-13-1	Acrylonitrile	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ

Sample Information

Client Sample ID: **Soil Boring 4 (13-14feet)-7 VOC** **York Sample ID:** **20A0318-34**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 10:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
74-97-5	Bromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 14:48	LLJ
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
75-25-2	Bromoform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
74-83-9	Bromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
75-15-0	Carbon disulfide	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
75-00-3	Chloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
74-87-3	Chloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
110-82-7	Cyclohexane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 14:48	LLJ
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 14:48	LLJ
74-95-3	Dibromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 14:48	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 14:48	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 14:48	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
79-20-9	Methyl acetate	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 14:48	LLJ

Sample Information

Client Sample ID: **Soil Boring 4 (13-14feet)-7 VOC** **York Sample ID:** **20A0318-34**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 10:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	01/15/2020 06:16	01/15/2020 14:48	LLJ
75-09-2	Methylene chloride	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/15/2020 06:16	01/15/2020 14:48	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/15/2020 06:16	01/15/2020 14:48	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
100-42-5	Styrene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	01/15/2020 06:16	01/15/2020 14:48	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH	01/15/2020 06:16	01/15/2020 14:48	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.9	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 14:48	LLJ

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: **Soil Boring 4 (13-14feet)-7 VOC** **York Sample ID:** **20A0318-34**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 10:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*107 %*			*77-125*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.9 %*			*85-120*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*			*76-130*						

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/kg dry			1	EPA 8260C Certifications:	01/15/2020 06:16	01/15/2020 14:48	LLJ

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**95.5**		%	0.100	1	SM 2540G Certifications: CTDOH	01/16/2020 16:38	01/16/2020 16:44	WL

Sample Information

Client Sample ID: **Soil Boring 4 (15-16feet)-8** **York Sample ID:** **20A0318-35**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 11:00 am	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	491	980	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW

Sample Information

Client Sample ID: **Soil Boring 4 (15-16feet)-8** **York Sample ID:** **20A0318-35**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 11:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	491	980	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	491	980	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
95-57-8	2-Chlorophenol	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
95-48-7	2-Methylphenol	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
88-74-4	2-Nitroaniline	ND		ug/kg dry	491	980	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
88-75-5	2-Nitrophenol	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
99-09-2	3-Nitroaniline	ND		ug/kg dry	491	980	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	491	980	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW

Sample Information

Client Sample ID: **Soil Boring 4 (15-16feet)-8** **York Sample ID:** **20A0318-35**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 11:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
106-47-8	4-Chloroaniline	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
100-01-6	4-Nitroaniline	ND		ug/kg dry	491	980	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
100-02-7	4-Nitrophenol	ND		ug/kg dry	491	980	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
83-32-9	**Acenaphthene**	**279**	J	ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
208-96-8	Acenaphthylene	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
98-86-2	Acetophenone	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
62-53-3	Aniline	ND		ug/kg dry	983	1970	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
120-12-7	**Anthracene**	**1120**		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
1912-24-9	Atrazine	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	246	491	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	983	1970	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
56-55-3	**Benzo(a)anthracene**	**2270**		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
50-32-8	**Benzo(a)pyrene**	**2070**		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
205-99-2	**Benzo(b)fluoranthene**	**1650**		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
191-24-2	**Benzo(g,h,i)perylene**	**1300**		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
207-08-9	**Benzo(k)fluoranthene**	**1640**		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
65-85-0	Benzoic acid	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
100-51-6	Benzyl alcohol	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW

Sample Information

Client Sample ID: **Soil Boring 4 (15-16feet)-8** **York Sample ID:** **20A0318-35**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 11:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
105-60-2	Caprolactam	ND		ug/kg dry	491	980	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
86-74-8	**Carbazole**	**314**	J	ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
218-01-9	**Chrysene**	**2280**		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
53-70-3	**Dibenzo(a,h)anthracene**	**459**	J	ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
132-64-9	Dibenzofuran	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
84-66-2	Diethyl phthalate	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
131-11-3	Dimethyl phthalate	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
206-44-0	**Fluoranthene**	**5010**		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
86-73-7	**Fluorene**	**361**	J	ug/kg dry	246	491	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
118-74-1	Hexachlorobenzene	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
67-72-1	Hexachloroethane	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
193-39-5	**Indeno(1,2,3-cd)pyrene**	**1320**		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
78-59-1	Isophorone	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
91-20-3	Naphthalene	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
98-95-3	Nitrobenzene	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW

Sample Information

Client Sample ID: **Soil Boring 4 (15-16feet)-8** **York Sample ID:** **20A0318-35**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 11:00 am	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
85-01-8	**Phenanthrene**	**4140**		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
108-95-2	Phenol	ND		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW
129-00-0	**Pyrene**	**4610**		ug/kg dry	246	491	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:22	OW

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*23.6 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*28.8 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*31.6 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*29.2 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*31.0 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*33.6 %*	*24-116*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Unknown aliphatic hydrocarbon**	**11400**	J	ug/kg dry			10	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 19:22	OW

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.96	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:08	CM
72-55-9	4,4'-DDE	ND		ug/kg dry	1.96	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:08	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	1.96	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:08	CM
309-00-2	Aldrin	ND		ug/kg dry	1.96	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:08	CM

Sample Information

Client Sample ID: **Soil Boring 4 (15-16feet)-8** **York Sample ID:** **20A0318-35**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 11:00 am	01/09/2020

Pesticides, 8081 target list **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		ug/kg dry	1.96	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:08	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.96	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/14/2020 08:03	01/16/2020 12:08	CM
319-85-7	beta-BHC	ND		ug/kg dry	1.96	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:08	CM
57-74-9	Chlordane, total	ND		ug/kg dry	39.2	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:08	CM
319-86-8	delta-BHC	ND		ug/kg dry	1.96	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:08	CM
60-57-1	Dieldrin	ND		ug/kg dry	1.96	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:08	CM
959-98-8	Endosulfan I	ND		ug/kg dry	1.96	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:08	CM
33213-65-9	Endosulfan II	ND		ug/kg dry	1.96	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	01/14/2020 08:03	01/16/2020 12:08	CM
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.96	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:08	CM
72-20-8	Endrin	ND		ug/kg dry	1.96	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:08	CM
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.96	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:08	CM
53494-70-5	Endrin ketone	ND		ug/kg dry	1.96	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:08	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.96	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:08	CM
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.96	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/14/2020 08:03	01/16/2020 12:08	CM
76-44-8	Heptachlor	ND		ug/kg dry	1.96	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:08	CM
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.96	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:08	CM
72-43-5	Methoxychlor	ND		ug/kg dry	9.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:08	CM
8001-35-2	Toxaphene	ND		ug/kg dry	99.2	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:08	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*48.5 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*33.4 %*	*30-150*

Sample Information

Client Sample ID: **Soil Boring 4 (15-16feet)-8** **York Sample ID:** **20A0318-35**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 11:00 am	01/09/2020

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0198	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 23:55	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0198	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 23:55	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0198	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 23:55	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0198	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 23:55	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0198	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 23:55	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0198	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 23:55	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0198	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 23:55	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0198	1	EPA 8082A Certifications:	01/14/2020 08:03	01/15/2020 23:55	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*78.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*81.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9240**		mg/kg dry	5.96	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:33	JAM
7440-36-0	Antimony	ND		mg/kg dry	2.98	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:33	JAM
7440-38-2	**Arsenic**	**7.99**		mg/kg dry	1.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:33	JAM
7440-39-3	**Barium**	**97.3**		mg/kg dry	2.98	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:33	JAM
7440-41-7	Beryllium	ND		mg/kg dry	0.060	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:33	JAM
7440-43-9	**Cadmium**	**0.614**		mg/kg dry	0.358	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:33	JAM
7440-70-2	**Calcium**	**22400**		mg/kg dry	5.96	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:33	JAM
7440-47-3	**Chromium**	**21.3**		mg/kg dry	0.596	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:33	JAM
7440-48-4	**Cobalt**	**8.50**		mg/kg dry	0.477	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:33	JAM

Sample Information

Client Sample ID: **Soil Boring 4 (15-16feet)-8** **York Sample ID:** **20A0318-35**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 11:00 am	01/09/2020

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**70.4**		mg/kg dry	2.39	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:33	JAM
7439-89-6	**Iron**	**16700**		mg/kg dry	29.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:33	JAM
7439-92-1	**Lead**	**268**		mg/kg dry	0.596	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:33	JAM
7439-95-4	**Magnesium**	**11500**		mg/kg dry	5.96	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:33	JAM
7439-96-5	**Manganese**	**385**		mg/kg dry	0.596	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:33	JAM
7440-02-0	**Nickel**	**20.6**		mg/kg dry	1.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:33	JAM
7440-09-7	**Potassium**	**1770**	B	mg/kg dry	5.96	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:33	JAM
7782-49-2	Selenium	ND		mg/kg dry	2.98	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:33	JAM
7440-22-4	Silver	ND		mg/kg dry	0.596	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:33	JAM
7440-23-5	**Sodium**	**327**		mg/kg dry	59.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:33	JAM
7440-28-0	Thallium	ND		mg/kg dry	2.98	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:33	JAM
7440-62-2	**Vanadium**	**28.7**		mg/kg dry	1.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:33	JAM
7440-66-6	**Zinc**	**252**		mg/kg dry	2.98	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:33	JAM

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.249**		mg/kg dry	0.0358	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	01/10/2020 12:00	01/10/2020 15:19	SY

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.596	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/15/2020 10:50	01/15/2020 16:58	MSP

Sample Information

Client Sample ID: **Soil Boring 4 (15-16feet)-8** **York Sample ID:** **20A0318-35**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 11:00 am	01/09/2020

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**83.9**		%	0.100	1	SM 2540G Certifications: CTDOH	01/14/2020 16:29	01/15/2020 10:27	JAG

Sample Information

Client Sample ID: **Soil Boring 4 (15-16feet)-8 VOC** **York Sample ID:** **20A0318-36**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 11:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/15/2020 06:16	01/15/2020 15:14	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	01/15/2020 06:16	01/15/2020 15:14	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/15/2020 06:16	01/15/2020 15:14	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ

Sample Information

Client Sample ID: **Soil Boring 4 (15-16feet)-8 VOC** **York Sample ID:** **20A0318-36**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 11:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/15/2020 06:16	01/15/2020 15:14	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/15/2020 06:16	01/15/2020 15:14	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/15/2020 06:16	01/15/2020 15:14	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/15/2020 06:16	01/15/2020 15:14	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/15/2020 06:16	01/15/2020 15:14	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/15/2020 06:16	01/15/2020 15:14	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
123-91-1	1,4-Dioxane	ND		ug/kg dry	53	110	1	EPA 8260C	01/15/2020 06:16	01/15/2020 15:14	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/15/2020 06:16	01/15/2020 15:14	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
591-78-6	2-Hexanone	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/15/2020 06:16	01/15/2020 15:14	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/15/2020 06:16	01/15/2020 15:14	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
67-64-1	**Acetone**	**11**		ug/kg dry	5.3	11	1	EPA 8260C	01/15/2020 06:16	01/15/2020 15:14	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-02-8	Acrolein	ND		ug/kg dry	5.3	11	1	EPA 8260C	01/15/2020 06:16	01/15/2020 15:14	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-13-1	Acrylonitrile	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/15/2020 06:16	01/15/2020 15:14	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
71-43-2	Benzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/15/2020 06:16	01/15/2020 15:14	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-97-5	Bromochloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/15/2020 06:16	01/15/2020 15:14	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/15/2020 06:16	01/15/2020 15:14	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-25-2	Bromoform	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/15/2020 06:16	01/15/2020 15:14	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-83-9	Bromomethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/15/2020 06:16	01/15/2020 15:14	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-15-0	Carbon disulfide	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/15/2020 06:16	01/15/2020 15:14	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/15/2020 06:16	01/15/2020 15:14	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C	01/15/2020 06:16	01/15/2020 15:14	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

Sample Information

Client Sample ID: **Soil Boring 4 (15-16feet)-8 VOC** **York Sample ID:** **20A0318-36**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 11:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes: **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
74-87-3	Chloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
110-82-7	Cyclohexane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 15:14	LLJ
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 15:14	LLJ
74-95-3	Dibromomethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 15:14	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 15:14	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 15:14	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
79-20-9	Methyl acetate	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 15:14	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 15:14	LLJ
75-09-2	**Methylene chloride**	**12**		ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/15/2020 06:16	01/15/2020 15:14	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/15/2020 06:16	01/15/2020 15:14	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ

Sample Information

Client Sample ID: **Soil Boring 4 (15-16feet)-8 VOC** **York Sample ID:** **20A0318-36**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 11:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
100-42-5	Styrene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 15:14	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH	01/15/2020 06:16	01/15/2020 15:14	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.9	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:14	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.3 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/kg dry			1	EPA 8260C Certifications:	01/15/2020 06:16	01/15/2020 15:14	LLJ

Sample Information

Client Sample ID: **Soil Boring 4 (15-16feet)-8 VOC** **York Sample ID:** **20A0318-36**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 11:00 am	01/09/2020

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**94.4**		%	0.100	1	SM 2540G Certifications: CTDOH	01/16/2020 16:38	01/16/2020 16:44	WL

Sample Information

Client Sample ID: **Soil Boring 5 (2-3feet)-9** **York Sample ID:** **20A0318-37**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	92.4	185	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	92.4	185	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	92.4	185	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW

Sample Information

Client Sample ID: **Soil Boring 5 (2-3feet)-9** **York Sample ID:** **20A0318-37**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
95-57-8	2-Chlorophenol	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
95-48-7	2-Methylphenol	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
88-74-4	2-Nitroaniline	ND		ug/kg dry	92.4	185	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
88-75-5	2-Nitrophenol	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
99-09-2	3-Nitroaniline	ND		ug/kg dry	92.4	185	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	92.4	185	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
106-47-8	4-Chloroaniline	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
100-01-6	4-Nitroaniline	ND		ug/kg dry	92.4	185	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
100-02-7	4-Nitrophenol	ND		ug/kg dry	92.4	185	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
83-32-9	Acenaphthene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
208-96-8	Acenaphthylene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
98-86-2	Acetophenone	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW

Sample Information

Client Sample ID: **Soil Boring 5 (2-3feet)-9** **York Sample ID:** **20A0318-37**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
62-53-3	Aniline	ND		ug/kg dry	185	370	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
120-12-7	Anthracene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
1912-24-9	Atrazine	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	185	370	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
65-85-0	Benzoic acid	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
100-51-6	Benzyl alcohol	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
105-60-2	Caprolactam	ND		ug/kg dry	92.4	185	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
86-74-8	Carbazole	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
218-01-9	Chrysene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW

Sample Information

Client Sample ID: **Soil Boring 5 (2-3feet)-9** **York Sample ID:** **20A0318-37**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
132-64-9	Dibenzofuran	ND		ug/kg dry	46.3	92.4	2	EPA 8270D	01/13/2020 13:45	01/14/2020 19:53	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-66-2	Diethyl phthalate	ND		ug/kg dry	46.3	92.4	2	EPA 8270D	01/13/2020 13:45	01/14/2020 19:53	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
131-11-3	Dimethyl phthalate	ND		ug/kg dry	46.3	92.4	2	EPA 8270D	01/13/2020 13:45	01/14/2020 19:53	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	46.3	92.4	2	EPA 8270D	01/13/2020 13:45	01/14/2020 19:53	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	46.3	92.4	2	EPA 8270D	01/13/2020 13:45	01/14/2020 19:53	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
206-44-0	Fluoranthene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D	01/13/2020 13:45	01/14/2020 19:53	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-73-7	Fluorene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D	01/13/2020 13:45	01/14/2020 19:53	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
118-74-1	Hexachlorobenzene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D	01/13/2020 13:45	01/14/2020 19:53	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D	01/13/2020 13:45	01/14/2020 19:53	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D	01/13/2020 13:45	01/14/2020 19:53	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
67-72-1	Hexachloroethane	ND		ug/kg dry	46.3	92.4	2	EPA 8270D	01/13/2020 13:45	01/14/2020 19:53	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D	01/13/2020 13:45	01/14/2020 19:53	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
78-59-1	Isophorone	ND		ug/kg dry	46.3	92.4	2	EPA 8270D	01/13/2020 13:45	01/14/2020 19:53	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-20-3	Naphthalene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D	01/13/2020 13:45	01/14/2020 19:53	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-95-3	Nitrobenzene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D	01/13/2020 13:45	01/14/2020 19:53	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	46.3	92.4	2	EPA 8270D	01/13/2020 13:45	01/14/2020 19:53	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	46.3	92.4	2	EPA 8270D	01/13/2020 13:45	01/14/2020 19:53	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	46.3	92.4	2	EPA 8270D	01/13/2020 13:45	01/14/2020 19:53	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-86-5	Pentachlorophenol	ND		ug/kg dry	46.3	92.4	2	EPA 8270D	01/13/2020 13:45	01/14/2020 19:53	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
85-01-8	Phenanthrene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D	01/13/2020 13:45	01/14/2020 19:53	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-95-2	Phenol	ND		ug/kg dry	46.3	92.4	2	EPA 8270D	01/13/2020 13:45	01/14/2020 19:53	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 5 (2-3feet)-9** **York Sample ID:** **20A0318-37**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 pm	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	Pyrene	ND		ug/kg dry	46.3	92.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 19:53	OW

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*75.6 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*77.7 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*76.0 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*67.4 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*82.2 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*74.8 %*	*24-116*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 19:53	OW

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 16:51	CM
72-55-9	4,4'-DDE	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 16:51	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 16:51	CM
309-00-2	Aldrin	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 16:51	CM
319-84-6	alpha-BHC	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 16:51	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/14/2020 08:03	01/15/2020 16:51	CM
319-85-7	beta-BHC	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 16:51	CM
57-74-9	Chlordane, total	ND		ug/kg dry	37.1	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 16:51	CM
319-86-8	delta-BHC	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 16:51	CM

Sample Information

Client Sample ID: **Soil Boring 5 (2-3feet)-9** **York Sample ID:** **20A0318-37**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 pm	01/09/2020

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
60-57-1	Dieldrin	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 16:51	CM
959-98-8	Endosulfan I	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 16:51	CM
33213-65-9	Endosulfan II	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	01/14/2020 08:03	01/15/2020 16:51	CM
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 16:51	CM
72-20-8	Endrin	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 16:51	CM
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 16:51	CM
53494-70-5	Endrin ketone	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 16:51	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 16:51	CM
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/14/2020 08:03	01/15/2020 16:51	CM
76-44-8	Heptachlor	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 16:51	CM
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 16:51	CM
72-43-5	Methoxychlor	ND		ug/kg dry	9.26	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 16:51	CM
8001-35-2	Toxaphene	ND		ug/kg dry	93.8	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 16:51	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*77.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*81.8 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:09	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:09	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:09	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:09	SR

Sample Information

Client Sample ID: **Soil Boring 5 (2-3feet)-9** **York Sample ID:** **20A0318-37**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 pm	01/09/2020

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:09	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:09	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:09	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications:	01/14/2020 08:03	01/16/2020 00:09	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*90.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*84.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7040**		mg/kg dry	5.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:35	JAM
7440-36-0	Antimony	ND		mg/kg dry	2.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:35	JAM
7440-38-2	Arsenic	ND		mg/kg dry	1.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:35	JAM
7440-39-3	**Barium**	**30.9**		mg/kg dry	2.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:35	JAM
7440-41-7	Beryllium	ND		mg/kg dry	0.057	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:35	JAM
7440-43-9	Cadmium	ND		mg/kg dry	0.341	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:35	JAM
7440-70-2	**Calcium**	**5070**		mg/kg dry	5.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:35	JAM
7440-47-3	**Chromium**	**12.3**		mg/kg dry	0.569	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:35	JAM
7440-48-4	**Cobalt**	**5.28**		mg/kg dry	0.455	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:35	JAM
7440-50-8	**Copper**	**11.5**		mg/kg dry	2.28	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:35	JAM
7439-89-6	**Iron**	**11900**		mg/kg dry	28.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:35	JAM
7439-92-1	**Lead**	**12.4**		mg/kg dry	0.569	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:35	JAM
7439-95-4	**Magnesium**	**3190**		mg/kg dry	5.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:35	JAM
7439-96-5	**Manganese**	**342**		mg/kg dry	0.569	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:35	JAM

Sample Information

Client Sample ID: **Soil Boring 5 (2-3feet)-9** **York Sample ID:** **20A0318-37**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 pm	01/09/2020

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	**Nickel**	**12.4**		mg/kg dry	1.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:35	JAM
7440-09-7	**Potassium**	**1110**	B	mg/kg dry	5.69	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:35	JAM
7782-49-2	Selenium	ND		mg/kg dry	2.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:35	JAM
7440-22-4	Silver	ND		mg/kg dry	0.569	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:35	JAM
7440-23-5	**Sodium**	**222**		mg/kg dry	56.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:35	JAM
7440-28-0	Thallium	ND		mg/kg dry	2.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:35	JAM
7440-62-2	**Vanadium**	**14.7**		mg/kg dry	1.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:35	JAM
7440-66-6	**Zinc**	**31.3**		mg/kg dry	2.84	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:35	JAM

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0341	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	01/10/2020 12:00	01/10/2020 15:46	SY

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.569	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/15/2020 10:50	01/15/2020 16:58	MSP

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**87.9**		%	0.100	1	SM 2540G Certifications: CTDOH	01/14/2020 16:29	01/15/2020 10:27	JAG

Sample Information

Client Sample ID: **Soil Boring 5 (2-3feet)-9 VOC** **York Sample ID:** **20A0318-38**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 15:41	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	01/15/2020 06:16	01/15/2020 15:41	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 15:41	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	53	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 15:41	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ

Sample Information

Client Sample ID: **Soil Boring 5 (2-3feet)-9 VOC** **York Sample ID:** **20A0318-38**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
67-64-1	**Acetone**	**15**		ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
107-02-8	Acrolein	ND		ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
107-13-1	Acrylonitrile	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
74-97-5	Bromochloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 15:41	LLJ
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
75-25-2	Bromoform	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
74-83-9	Bromomethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
75-15-0	Carbon disulfide	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
75-00-3	Chloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
74-87-3	Chloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
110-82-7	Cyclohexane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 15:41	LLJ
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 15:41	LLJ
74-95-3	Dibromomethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 15:41	LLJ

Sample Information

Client Sample ID: **Soil Boring 5 (2-3feet)-9 VOC** **York Sample ID:** **20A0318-38**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 15:41	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 15:41	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
79-20-9	Methyl acetate	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 15:41	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 15:41	LLJ
75-09-2	**Methylene chloride**	**5.3**	J	ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/15/2020 06:16	01/15/2020 15:41	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/15/2020 06:16	01/15/2020 15:41	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
100-42-5	Styrene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/15/2020 06:16	01/15/2020 15:41	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ

Sample Information

Client Sample ID: **Soil Boring 5 (2-3feet)-9 VOC** **York Sample ID:** **20A0318-38**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 1:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH	01/15/2020 06:16	01/15/2020 15:41	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.9	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/15/2020 06:16	01/15/2020 15:41	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.4 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/kg dry			1	EPA 8260C Certifications:	01/15/2020 06:16	01/15/2020 15:41	LLJ

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**94.5**		%	0.100	1	SM 2540G Certifications: CTDOH	01/16/2020 16:38	01/16/2020 16:44	WL

Sample Information

Client Sample ID: **Soil Boring 5 (9-5feet)-10** **York Sample ID:** **20A0318-39**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 2:00 pm	01/09/2020

Sample Information

Client Sample ID: **Soil Boring 5 (9-5feet)-10** **York Sample ID:** **20A0318-39**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 2:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	91.6	183	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	91.6	183	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	91.6	183	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
95-57-8	2-Chlorophenol	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
95-48-7	2-Methylphenol	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
88-74-4	2-Nitroaniline	ND		ug/kg dry	91.6	183	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
88-75-5	2-Nitrophenol	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW

Sample Information

Client Sample ID: **Soil Boring 5 (9-5feet)-10** **York Sample ID:** **20A0318-39**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 2:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
99-09-2	3-Nitroaniline	ND		ug/kg dry	91.6	183	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	91.6	183	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
106-47-8	4-Chloroaniline	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
100-01-6	4-Nitroaniline	ND		ug/kg dry	91.6	183	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
100-02-7	4-Nitrophenol	ND		ug/kg dry	91.6	183	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
83-32-9	**Acenaphthene**	**152**		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
208-96-8	**Acenaphthylene**	**263**		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
98-86-2	Acetophenone	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
62-53-3	Aniline	ND		ug/kg dry	183	367	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
120-12-7	**Anthracene**	**502**		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
1912-24-9	Atrazine	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
100-52-7	Benzaldehyde	ND	CCV-L	ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	183	367	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
56-55-3	**Benzo(a)anthracene**	**1830**		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
50-32-8	**Benzo(a)pyrene**	**1880**		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
205-99-2	**Benzo(b)fluoranthene**	**1470**		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
191-24-2	**Benzo(g,h,i)perylene**	**1160**		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW

Sample Information

Client Sample ID: **Soil Boring 5 (9-5feet)-10** **York Sample ID:** **20A0318-39**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 2:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	**Benzo(k)fluoranthene**	**1460**		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
65-85-0	Benzoic acid	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
100-51-6	Benzyl alcohol	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
117-81-7	**Bis(2-ethylhexyl)phthalate**	**157**		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
105-60-2	Caprolactam	ND		ug/kg dry	91.6	183	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
86-74-8	**Carbazole**	**151**		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
218-01-9	**Chrysene**	**1960**		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
53-70-3	**Dibenzo(a,h)anthracene**	**399**		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
132-64-9	**Dibenzofuran**	**58.6**	J	ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
84-66-2	Diethyl phthalate	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
131-11-3	Dimethyl phthalate	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
206-44-0	**Fluoranthene**	**3330**		ug/kg dry	115	229	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/15/2020 15:29	OW
86-73-7	**Fluorene**	**144**		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
118-74-1	Hexachlorobenzene	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW

Sample Information

Client Sample ID: **Soil Boring 5 (9-5feet)-10** **York Sample ID:** **20A0318-39**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 2:00 pm	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
193-39-5	**Indeno(1,2,3-cd)pyrene**	**1190**		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
78-59-1	Isophorone	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
91-20-3	Naphthalene	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
98-95-3	Nitrobenzene	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
85-01-8	**Phenanthrene**	**1840**		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
108-95-2	Phenol	ND		ug/kg dry	45.9	91.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 20:25	OW
129-00-0	**Pyrene**	**3030**		ug/kg dry	115	229	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/15/2020 15:29	OW

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*67.5 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*74.7 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*82.0 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*72.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*85.5 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*86.0 %*	*24-116*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**unknown PAH MW=192**	**1610**	J	ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 20:25	OW
NA	**unknown PAH MW=216**	**2340**	J	ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 20:25	OW
NA	**unknown PAH MW=252**	**1390**	J	ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 20:25	OW

Sample Information

Client Sample ID: **Soil Boring 5 (9-5feet)-10** **York Sample ID:** **20A0318-39**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 2:00 pm	01/09/2020

Pesticides, 8081 target list **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.83	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:24	CM
72-55-9	4,4'-DDE	ND		ug/kg dry	1.83	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:24	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	1.83	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:24	CM
309-00-2	Aldrin	ND		ug/kg dry	1.83	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:24	CM
319-84-6	alpha-BHC	ND		ug/kg dry	1.83	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:24	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.83	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/14/2020 08:03	01/16/2020 12:24	CM
319-85-7	beta-BHC	ND		ug/kg dry	1.83	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:24	CM
57-74-9	Chlordane, total	ND		ug/kg dry	36.6	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:24	CM
319-86-8	delta-BHC	ND		ug/kg dry	1.83	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:24	CM
60-57-1	Dieldrin	ND		ug/kg dry	1.83	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:24	CM
959-98-8	Endosulfan I	ND		ug/kg dry	1.83	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:24	CM
33213-65-9	Endosulfan II	ND		ug/kg dry	1.83	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	01/14/2020 08:03	01/16/2020 12:24	CM
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.83	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:24	CM
72-20-8	Endrin	ND		ug/kg dry	1.83	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:24	CM
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.83	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:24	CM
53494-70-5	Endrin ketone	ND		ug/kg dry	1.83	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:24	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.83	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:24	CM
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.83	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/14/2020 08:03	01/16/2020 12:24	CM
76-44-8	Heptachlor	ND		ug/kg dry	1.83	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:24	CM
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.83	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:24	CM
72-43-5	Methoxychlor	ND		ug/kg dry	9.15	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:24	CM

Sample Information

Client Sample ID: **Soil Boring 5 (9-5feet)-10** **York Sample ID:** **20A0318-39**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 2:00 pm	01/09/2020

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND		ug/kg dry	92.6	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 12:24	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*56.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*44.4 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:22	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:22	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:22	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:22	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:22	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:22	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:22	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0185	1	EPA 8082A Certifications:	01/14/2020 08:03	01/16/2020 00:22	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*81.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*86.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8800**		mg/kg dry	5.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:38	JAM
7440-36-0	Antimony	ND		mg/kg dry	2.80	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:38	JAM
7440-38-2	**Arsenic**	**5.01**		mg/kg dry	1.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:38	JAM

Sample Information

Client Sample ID: **Soil Boring 5 (9-5feet)-10** **York Sample ID:** **20A0318-39**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 2:00 pm	01/09/2020

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-39-3	**Barium**	**162**		mg/kg dry	2.80	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:38	JAM
7440-41-7	Beryllium	ND		mg/kg dry	0.056	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:38	JAM
7440-43-9	**Cadmium**	**0.510**		mg/kg dry	0.336	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:38	JAM
7440-70-2	**Calcium**	**19700**		mg/kg dry	5.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:38	JAM
7440-47-3	**Chromium**	**33.6**		mg/kg dry	0.560	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:38	JAM
7440-48-4	**Cobalt**	**10.1**		mg/kg dry	0.448	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:38	JAM
7440-50-8	**Copper**	**279**		mg/kg dry	2.24	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:38	JAM
7439-89-6	**Iron**	**19200**		mg/kg dry	28.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:38	JAM
7439-92-1	**Lead**	**242**		mg/kg dry	0.560	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:38	JAM
7439-95-4	**Magnesium**	**4970**		mg/kg dry	5.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:38	JAM
7439-96-5	**Manganese**	**302**		mg/kg dry	0.560	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:38	JAM
7440-02-0	**Nickel**	**25.9**		mg/kg dry	1.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:38	JAM
7440-09-7	**Potassium**	**1660**	B	mg/kg dry	5.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:38	JAM
7782-49-2	Selenium	ND		mg/kg dry	2.80	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:38	JAM
7440-22-4	Silver	ND		mg/kg dry	0.560	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:38	JAM
7440-23-5	**Sodium**	**415**		mg/kg dry	56.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:38	JAM
7440-28-0	Thallium	ND		mg/kg dry	2.80	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:38	JAM
7440-62-2	**Vanadium**	**31.6**		mg/kg dry	1.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:38	JAM
7440-66-6	**Zinc**	**329**		mg/kg dry	2.80	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:38	JAM

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.498**		mg/kg dry	0.0336	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	01/10/2020 12:00	01/10/2020 16:04	SY

Sample Information

Client Sample ID: **Soil Boring 5 (9-5feet)-10** **York Sample ID:** **20A0318-39**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 2:00 pm	01/09/2020

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.560	1	EPA 9014/9010C	01/15/2020 10:50	01/15/2020 16:58	MSP
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**89.2**		%	0.100	1	SM 2540G	01/14/2020 16:29	01/15/2020 10:27	JAG
							Certifications: CTDOH			

Sample Information

Client Sample ID: **Soil Boring 5 (9-5feet)-10 VOC** **York Sample ID:** **20A0318-40**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 2:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE			
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP			

Sample Information

Client Sample ID: **Soil Boring 5 (9-5feet)-10 VOC** **York Sample ID:** **20A0318-40**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 2:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 06:43	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	53	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 06:43	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
591-78-6	2-Hexanone	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
67-64-1	**Acetone**	**7.3**	J	ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
107-02-8	Acrolein	ND		ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
107-13-1	Acrylonitrile	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
74-97-5	Bromochloromethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 06:43	LLJ
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
75-25-2	Bromoform	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ

Sample Information

Client Sample ID: **Soil Boring 5 (9-5feet)-10 VOC** **York Sample ID:** **20A0318-40**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 2:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
75-15-0	Carbon disulfide	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
75-00-3	Chloroethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
74-87-3	Chloromethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
110-82-7	Cyclohexane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 06:43	LLJ
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 06:43	LLJ
74-95-3	Dibromomethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 06:43	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 06:43	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 06:43	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
79-20-9	Methyl acetate	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 06:43	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 06:43	LLJ
75-09-2	**Methylene chloride**	**10**	J	ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 06:43	LLJ

Sample Information

Client Sample ID: **Soil Boring 5 (9-5feet)-10 VOC** **York Sample ID:** **20A0318-40**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 2:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes: **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
95-47-6	o-Xylene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PA		
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.3	11	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PA		
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
100-42-5	Styrene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-88-3	Toluene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications:	CTDOH		
79-01-6	Trichloroethylene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.7	5.3	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.0	16	1	EPA 8260C	01/14/2020 06:47	01/15/2020 06:43	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.3 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*	*76-130*

Sample Information

Client Sample ID: **Soil Boring 5 (9-5feet)-10 VOC** **York Sample ID:** **20A0318-40**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 2, 2020 2:00 pm	01/09/2020

Volatile Organics, Tentatively Identified Cmpds. **Log-in Notes:** **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:47	01/15/2020 06:43	LLJ

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**94.0**		%	0.100	1	SM 2540G Certifications: CTDOH	01/16/2020 16:41	01/16/2020 16:50	WL

Sample Information

Client Sample ID: **Soil Boring 11 (8-9feet)-21** **York Sample ID:** **20A0318-41**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 11:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	102	203	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	102	203	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW

Sample Information

Client Sample ID: **Soil Boring 11 (8-9feet)-21** **York Sample ID:** **20A0318-41**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 11:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	50.9	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:17	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	50.9	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:17	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	102	203	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:17	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	50.9	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:17	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	50.9	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:17	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	50.9	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:17	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-57-8	2-Chlorophenol	ND		ug/kg dry	50.9	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:17	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	50.9	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:17	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		ug/kg dry	50.9	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:17	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		ug/kg dry	102	203	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:17	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		ug/kg dry	50.9	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:17	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	50.9	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:17	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	50.9	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:17	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		ug/kg dry	102	203	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:17	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	102	203	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:17	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	50.9	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:17	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	50.9	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:17	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		ug/kg dry	50.9	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:17	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	50.9	102	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:17	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-01-6	4-Nitroaniline	ND		ug/kg dry	102	203	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:17	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		ug/kg dry	102	203	2	EPA 8270D	01/13/2020 13:45	01/14/2020 16:17	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 11 (8-9feet)-21** **York Sample ID:** **20A0318-41**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 11:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
208-96-8	Acenaphthylene	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
98-86-2	Acetophenone	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
62-53-3	Aniline	ND		ug/kg dry	203	407	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
120-12-7	Anthracene	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
1912-24-9	Atrazine	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
100-52-7	Benzaldehyde	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	203	407	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
56-55-3	**Benzo(a)anthracene**	**90.2**	J	ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
50-32-8	**Benzo(a)pyrene**	**78.8**	J	ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
205-99-2	**Benzo(b)fluoranthene**	**71.5**	J	ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
191-24-2	**Benzo(g,h,i)perylene**	**55.2**	J	ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
207-08-9	**Benzo(k)fluoranthene**	**59.3**	J	ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
65-85-0	Benzoic acid	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
100-51-6	Benzyl alcohol	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
105-60-2	Caprolactam	ND		ug/kg dry	102	203	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
86-74-8	Carbazole	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW

Sample Information

Client Sample ID: **Soil Boring 11 (8-9feet)-21** **York Sample ID:** **20A0318-41**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 11:00 am	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
218-01-9	**Chrysene**	**89.3**	J	ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
132-64-9	Dibenzofuran	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
84-66-2	Diethyl phthalate	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
131-11-3	**Dimethyl phthalate**	**136**		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
206-44-0	**Fluoranthene**	**204**		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
86-73-7	Fluorene	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
118-74-1	Hexachlorobenzene	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
67-72-1	Hexachloroethane	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
78-59-1	Isophorone	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
91-20-3	Naphthalene	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
98-95-3	Nitrobenzene	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
62-75-9	N-Nitrosodimethylamine	ND	CCV-L	ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
85-01-8	**Phenanthrene**	**146**		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW

Sample Information

Client Sample ID: **Soil Boring 11 (8-9feet)-21** **York Sample ID:** **20A0318-41**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 11:00 am	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW
129-00-0	**Pyrene**	**166**		ug/kg dry	50.9	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:17	OW

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*65.6 %*		*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*73.2 %*		*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*123 %*	S-08	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*60.5 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*113 %*	S-08	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*64.4 %*		*24-116*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 16:17	OW

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.00	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 13:46	CM
72-55-9	4,4'-DDE	ND		ug/kg dry	2.00	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 13:46	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	2.00	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 13:46	CM
309-00-2	Aldrin	ND		ug/kg dry	2.00	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 13:46	CM
319-84-6	alpha-BHC	ND		ug/kg dry	2.00	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 13:46	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.00	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/14/2020 08:03	01/16/2020 13:46	CM
319-85-7	beta-BHC	ND		ug/kg dry	2.00	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 13:46	CM
57-74-9	Chlordane, total	ND		ug/kg dry	39.9	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 13:46	CM

Sample Information

Client Sample ID: **Soil Boring 11 (8-9feet)-21** **York Sample ID:** **20A0318-41**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 11:00 am	01/09/2020

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-86-8	delta-BHC	ND		ug/kg dry	2.00	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 13:46	CM
60-57-1	Dieldrin	ND		ug/kg dry	2.00	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 13:46	CM
959-98-8	Endosulfan I	ND		ug/kg dry	2.00	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 13:46	CM
33213-65-9	Endosulfan II	ND		ug/kg dry	2.00	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	01/14/2020 08:03	01/16/2020 13:46	CM
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.00	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 13:46	CM
72-20-8	Endrin	ND		ug/kg dry	2.00	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 13:46	CM
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.00	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 13:46	CM
53494-70-5	Endrin ketone	ND		ug/kg dry	2.00	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 13:46	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.00	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 13:46	CM
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.00	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/14/2020 08:03	01/16/2020 13:46	CM
76-44-8	Heptachlor	ND		ug/kg dry	2.00	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 13:46	CM
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.00	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 13:46	CM
72-43-5	Methoxychlor	ND		ug/kg dry	9.99	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 13:46	CM
8001-35-2	Toxaphene	ND		ug/kg dry	101	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 13:46	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*72.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*54.7 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0202	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:36	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0202	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:36	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0202	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:36	SR

Sample Information

Client Sample ID: **Soil Boring 11 (8-9feet)-21** **York Sample ID:** **20A0318-41**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 11:00 am	01/09/2020

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0202	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:36	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0202	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:36	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0202	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:36	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0202	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:36	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0202	1	EPA 8082A Certifications:	01/14/2020 08:03	01/16/2020 00:36	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*83.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*81.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**21100**		mg/kg dry	6.17	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:40	JAM
7440-36-0	Antimony	ND		mg/kg dry	3.09	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:40	JAM
7440-38-2	**Arsenic**	**2.56**		mg/kg dry	1.85	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:40	JAM
7440-39-3	**Barium**	**125**		mg/kg dry	3.09	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:40	JAM
7440-41-7	Beryllium	ND		mg/kg dry	0.062	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:40	JAM
7440-43-9	**Cadmium**	**0.504**		mg/kg dry	0.370	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:40	JAM
7440-70-2	**Calcium**	**24300**		mg/kg dry	6.17	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:40	JAM
7440-47-3	**Chromium**	**16.7**		mg/kg dry	0.617	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:40	JAM
7440-48-4	**Cobalt**	**22.1**		mg/kg dry	0.494	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:40	JAM
7440-50-8	**Copper**	**14.3**		mg/kg dry	2.47	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:40	JAM
7439-89-6	**Iron**	**26500**		mg/kg dry	30.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:40	JAM
7439-92-1	**Lead**	**37.4**		mg/kg dry	0.617	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:40	JAM
7439-95-4	**Magnesium**	**16000**		mg/kg dry	6.17	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:40	JAM

Sample Information

Client Sample ID: **Soil Boring 11 (8-9feet)-21** **York Sample ID:** **20A0318-41**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 11:00 am	01/09/2020

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	**Manganese**	**370**		mg/kg dry	0.617	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:40	JAM
7440-02-0	**Nickel**	**25.7**		mg/kg dry	1.23	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:40	JAM
7440-09-7	**Potassium**	**3830**	B	mg/kg dry	6.17	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:40	JAM
7782-49-2	Selenium	ND		mg/kg dry	3.09	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:40	JAM
7440-22-4	Silver	ND		mg/kg dry	0.617	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:40	JAM
7440-23-5	**Sodium**	**1390**		mg/kg dry	61.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:40	JAM
7440-28-0	Thallium	ND		mg/kg dry	3.09	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:40	JAM
7440-62-2	**Vanadium**	**71.1**		mg/kg dry	1.23	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:40	JAM
7440-66-6	**Zinc**	**74.8**		mg/kg dry	3.09	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:40	JAM

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0416**		mg/kg dry	0.0370	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	01/10/2020 16:23	01/10/2020 16:43	SY

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.617	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/15/2020 10:50	01/15/2020 16:58	MSP

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**81.0**		%	0.100	1	SM 2540G Certifications: CTDOH	01/14/2020 16:29	01/15/2020 10:27	JAG

Sample Information

Client Sample ID: **Soil Boring 11 (8-9feet)-21 VOC** **York Sample ID:** **20A0318-42**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 11:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 07:10	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	01/14/2020 06:47	01/15/2020 07:10	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 07:10	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	59	120	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 07:10	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ

Sample Information

Client Sample ID: **Soil Boring 11 (8-9feet)-21 VOC** **York Sample ID:** **20A0318-42**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 11:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
67-64-1	**Acetone**	**35**		ug/kg dry	5.9	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
107-02-8	Acrolein	ND		ug/kg dry	5.9	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
107-13-1	Acrylonitrile	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
74-97-5	Bromochloromethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 07:10	LLJ
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
75-25-2	Bromoform	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
74-83-9	Bromomethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
75-15-0	Carbon disulfide	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
75-00-3	Chloroethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
67-66-3	Chloroform	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
74-87-3	Chloromethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
110-82-7	Cyclohexane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 07:10	LLJ
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 07:10	LLJ
74-95-3	Dibromomethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 07:10	LLJ

Sample Information

Client Sample ID: **Soil Boring 11 (8-9feet)-21 VOC** **York Sample ID:** **20A0318-42**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 11:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 07:10	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 07:10	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
79-20-9	Methyl acetate	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 07:10	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 07:10	LLJ
75-09-2	Methylene chloride	ND		ug/kg dry	5.9	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 07:10	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.9	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 07:10	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
100-42-5	Styrene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 07:10	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ

Sample Information

Client Sample ID: **Soil Boring 11 (8-9feet)-21 VOC** **York Sample ID:** **20A0318-42**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 11:00 am	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH	01/14/2020 06:47	01/15/2020 07:10	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.8	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:10	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*103 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.0 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:47	01/15/2020 07:10	LLJ

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**85.0**		%	0.100	1	SM 2540G Certifications: CTDOH	01/16/2020 16:41	01/16/2020 16:50	WL

Sample Information

Client Sample ID: **Soil Boring 11 (10-11feet)-22** **York Sample ID:** **20A0318-43**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 12:00 pm	01/09/2020

Sample Information

Client Sample ID: **Soil Boring 11 (10-11feet)-22** **York Sample ID:** **20A0318-43**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 12:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	93.0	186	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	93.0	186	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	93.0	186	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
95-57-8	2-Chlorophenol	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
95-48-7	2-Methylphenol	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
88-74-4	2-Nitroaniline	ND		ug/kg dry	93.0	186	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
88-75-5	2-Nitrophenol	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW

Sample Information

Client Sample ID: **Soil Boring 11 (10-11feet)-22** **York Sample ID:** **20A0318-43**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 12:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
99-09-2	3-Nitroaniline	ND		ug/kg dry	93.0	186	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	93.0	186	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
106-47-8	4-Chloroaniline	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
100-01-6	4-Nitroaniline	ND		ug/kg dry	93.0	186	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
100-02-7	4-Nitrophenol	ND		ug/kg dry	93.0	186	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
83-32-9	**Acenaphthene**	**60.2**	J	ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
208-96-8	**Acenaphthylene**	**46.8**	J	ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
98-86-2	Acetophenone	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
62-53-3	Aniline	ND		ug/kg dry	186	372	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
120-12-7	**Anthracene**	**185**		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
1912-24-9	Atrazine	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
100-52-7	Benzaldehyde	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	186	372	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
56-55-3	**Benzo(a)anthracene**	**422**		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
50-32-8	**Benzo(a)pyrene**	**381**		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
205-99-2	**Benzo(b)fluoranthene**	**311**		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
191-24-2	**Benzo(g,h,i)perylene**	**205**		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW

Sample Information

Client Sample ID: **Soil Boring 11 (10-11feet)-22** **York Sample ID:** **20A0318-43**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 12:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	**Benzo(k)fluoranthene**	**281**		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
65-85-0	Benzoic acid	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
100-51-6	Benzyl alcohol	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
105-60-2	Caprolactam	ND		ug/kg dry	93.0	186	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
86-74-8	**Carbazole**	**50.5**	J	ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
218-01-9	**Chrysene**	**389**		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
53-70-3	**Dibenzo(a,h)anthracene**	**78.8**	J	ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
132-64-9	**Dibenzofuran**	**56.5**	J	ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
84-66-2	Diethyl phthalate	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
131-11-3	**Dimethyl phthalate**	**126**		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
206-44-0	**Fluoranthene**	**1030**		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
86-73-7	**Fluorene**	**69.8**	J	ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
118-74-1	Hexachlorobenzene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW

Sample Information

Client Sample ID: **Soil Boring 11 (10-11feet)-22** **York Sample ID:** **20A0318-43**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 12:00 pm	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
193-39-5	**Indeno(1,2,3-cd)pyrene**	**186**		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
78-59-1	Isophorone	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
91-20-3	Naphthalene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
98-95-3	Nitrobenzene	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
62-75-9	N-Nitrosodimethylamine	ND	CCV-L	ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
85-01-8	**Phenanthrene**	**783**		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
108-95-2	Phenol	ND		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW
129-00-0	**Pyrene**	**892**		ug/kg dry	46.6	93.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 16:47	OW

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*65.8 %*		*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*69.3 %*		*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*132 %*	S-08	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*76.9 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*121 %*	S-08	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*86.7 %*		*24-116*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 16:47	OW

Sample Information

Client Sample ID: **Soil Boring 11 (10-11feet)-22** **York Sample ID:** **20A0318-43**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 12:00 pm	01/09/2020

Pesticides, 8081 target list **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:08	CM
72-55-9	4,4'-DDE	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:08	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:08	CM
309-00-2	Aldrin	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:08	CM
319-84-6	alpha-BHC	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:08	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/14/2020 08:03	01/15/2020 17:08	CM
319-85-7	beta-BHC	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:08	CM
57-74-9	Chlordane, total	ND		ug/kg dry	36.9	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:08	CM
319-86-8	delta-BHC	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:08	CM
60-57-1	Dieldrin	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:08	CM
959-98-8	Endosulfan I	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:08	CM
33213-65-9	Endosulfan II	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	01/14/2020 08:03	01/15/2020 17:08	CM
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:08	CM
72-20-8	Endrin	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:08	CM
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:08	CM
53494-70-5	Endrin ketone	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:08	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:08	CM
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/14/2020 08:03	01/15/2020 17:08	CM
76-44-8	Heptachlor	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:08	CM
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:08	CM
72-43-5	Methoxychlor	ND		ug/kg dry	9.23	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:08	CM

Sample Information

Client Sample ID: **Soil Boring 11 (10-11feet)-22** **York Sample ID:** **20A0318-43**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 12:00 pm	01/09/2020

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND		ug/kg dry	93.4	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:08	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*73.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*77.8 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:49	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:49	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:49	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:49	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:49	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:49	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 00:49	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications:	01/14/2020 08:03	01/16/2020 00:49	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*82.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*93.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9460**		mg/kg dry	5.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:43	JAM
7440-36-0	Antimony	ND		mg/kg dry	2.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:43	JAM
7440-38-2	**Arsenic**	**2.64**		mg/kg dry	1.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:43	JAM

Sample Information

Client Sample ID: **Soil Boring 11 (10-11feet)-22** **York Sample ID:** **20A0318-43**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 12:00 pm	01/09/2020

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-39-3	**Barium**	**87.9**		mg/kg dry	2.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:43	JAM
7440-41-7	Beryllium	ND		mg/kg dry	0.056	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:43	JAM
7440-43-9	Cadmium	ND		mg/kg dry	0.337	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:43	JAM
7440-70-2	**Calcium**	**44900**		mg/kg dry	5.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:43	JAM
7440-47-3	**Chromium**	**32.4**		mg/kg dry	0.561	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:43	JAM
7440-48-4	**Cobalt**	**9.57**		mg/kg dry	0.449	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:43	JAM
7440-50-8	**Copper**	**18.2**		mg/kg dry	2.24	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:43	JAM
7439-89-6	**Iron**	**17900**		mg/kg dry	28.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:43	JAM
7439-92-1	**Lead**	**24.3**		mg/kg dry	0.561	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:43	JAM
7439-95-4	**Magnesium**	**28800**		mg/kg dry	5.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:43	JAM
7439-96-5	**Manganese**	**302**		mg/kg dry	0.561	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:43	JAM
7440-02-0	**Nickel**	**24.4**		mg/kg dry	1.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:43	JAM
7440-09-7	**Potassium**	**3250**	B	mg/kg dry	5.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:43	JAM
7782-49-2	Selenium	ND		mg/kg dry	2.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:43	JAM
7440-22-4	Silver	ND		mg/kg dry	0.561	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:43	JAM
7440-23-5	**Sodium**	**251**		mg/kg dry	56.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:43	JAM
7440-28-0	Thallium	ND		mg/kg dry	2.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:43	JAM
7440-62-2	**Vanadium**	**34.6**		mg/kg dry	1.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:43	JAM
7440-66-6	**Zinc**	**74.3**		mg/kg dry	2.81	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:43	JAM

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.182**		mg/kg dry	0.0337	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	01/10/2020 16:23	01/10/2020 16:52	SY

Sample Information

Client Sample ID: **Soil Boring 11 (10-11feet)-22** **York Sample ID:** **20A0318-43**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 12:00 pm	01/09/2020

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.561	1	EPA 9014/9010C	01/15/2020 10:50	01/15/2020 16:58	MSP
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**89.1**		%	0.100	1	SM 2540G	01/14/2020 16:29	01/15/2020 10:27	JAG
							Certifications: CTDOH			

Sample Information

Client Sample ID: **Soil Boring 11 (10-11feet)-22 VOC** **York Sample ID:** **20A0318-44**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 12:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE			
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP			

Sample Information

Client Sample ID: **Soil Boring 11 (10-11feet)-22 VOC** **York Sample ID:** **20A0318-44**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 12:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
123-91-1	1,4-Dioxane	ND		ug/kg dry	61	120	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
78-93-3	2-Butanone	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
591-78-6	2-Hexanone	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
67-64-1	**Acetone**	**60**		ug/kg dry	6.1	12	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-02-8	Acrolein	ND		ug/kg dry	6.1	12	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-13-1	Acrylonitrile	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
71-43-2	Benzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-97-5	Bromochloromethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-25-2	Bromoform	ND		ug/kg dry	3.1	6.1	1	EPA 8260C	01/14/2020 06:47	01/15/2020 07:36	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

Sample Information

Client Sample ID: **Soil Boring 11 (10-11feet)-22 VOC** **York Sample ID:** **20A0318-44**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 12:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ
75-15-0	Carbon disulfide	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ
75-00-3	Chloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ
67-66-3	Chloroform	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ
74-87-3	Chloromethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ
110-82-7	Cyclohexane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:47	01/15/2020 07:36	LLJ
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:47	01/15/2020 07:36	LLJ
74-95-3	Dibromomethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:47	01/15/2020 07:36	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:47	01/15/2020 07:36	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:47	01/15/2020 07:36	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ
79-20-9	Methyl acetate	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:47	01/15/2020 07:36	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:47	01/15/2020 07:36	LLJ
75-09-2	**Methylene chloride**	**7.2**	J	ug/kg dry	6.1	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ

Sample Information

Client Sample ID: **Soil Boring 11 (10-11feet)-22 VOC** **York Sample ID:** **20A0318-44**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 12:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 07:36	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.1	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 07:36	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ
100-42-5	Styrene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 07:36	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ
108-88-3	Toluene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH	01/14/2020 06:47	01/15/2020 07:36	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.2	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 07:36	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.9 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*103 %*	*76-130*

Sample Information

Client Sample ID: **Soil Boring 11 (10-11feet)-22 VOC** **York Sample ID:** **20A0318-44**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 12:00 pm	01/09/2020

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:47	01/15/2020 07:36	LLJ

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**81.6**		%	0.100	1	SM 2540G Certifications: CTDOH	01/16/2020 16:41	01/16/2020 16:50	WL

Sample Information

Client Sample ID: **Soil Boring 12 (12-13feet)-23** **York Sample ID:** **20A0318-45**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 1:00 pm	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	**1,1-Biphenyl**	**336**		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	93.9	188	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	93.9	188	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW

Sample Information

Client Sample ID: **Soil Boring 12 (12-13feet)-23** **York Sample ID:** **20A0318-45**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 1:00 pm	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	93.9	188	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
95-57-8	2-Chlorophenol	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
91-57-6	**2-Methylnaphthalene**	**1200**		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
95-48-7	2-Methylphenol	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
88-74-4	2-Nitroaniline	ND		ug/kg dry	93.9	188	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
88-75-5	2-Nitrophenol	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
99-09-2	3-Nitroaniline	ND		ug/kg dry	93.9	188	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	93.9	188	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
106-47-8	4-Chloroaniline	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
100-01-6	4-Nitroaniline	ND		ug/kg dry	93.9	188	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
100-02-7	4-Nitrophenol	ND		ug/kg dry	93.9	188	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
83-32-9	**Acenaphthene**	**3440**		ug/kg dry	235	469	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/15/2020 15:20	OW

Sample Information

Client Sample ID: **Soil Boring 12 (12-13feet)-23** **York Sample ID:** **20A0318-45**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 1:00 pm	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
208-96-8	**Acenaphthylene**	**195**		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
98-86-2	Acetophenone	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
62-53-3	Aniline	ND		ug/kg dry	188	376	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
120-12-7	**Anthracene**	**10300**		ug/kg dry	235	469	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/15/2020 15:20	OW
1912-24-9	Atrazine	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
100-52-7	Benzaldehyde	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	188	376	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
56-55-3	**Benzo(a)anthracene**	**14800**		ug/kg dry	235	469	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/15/2020 15:20	OW
50-32-8	**Benzo(a)pyrene**	**12100**		ug/kg dry	235	469	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/15/2020 15:20	OW
205-99-2	**Benzo(b)fluoranthene**	**9650**		ug/kg dry	235	469	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/15/2020 15:20	OW
191-24-2	**Benzo(g,h,i)perylene**	**5830**		ug/kg dry	235	469	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/15/2020 15:20	OW
207-08-9	**Benzo(k)fluoranthene**	**9460**		ug/kg dry	235	469	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/15/2020 15:20	OW
65-85-0	Benzoic acid	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
100-51-6	Benzyl alcohol	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
117-81-7	**Bis(2-ethylhexyl)phthalate**	**110**		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
105-60-2	Caprolactam	ND		ug/kg dry	93.9	188	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
86-74-8	**Carbazole**	**2940**		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
218-01-9	**Chrysene**	**12800**		ug/kg dry	235	469	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/15/2020 15:20	OW

Sample Information

Client Sample ID: **Soil Boring 12 (12-13feet)-23** **York Sample ID:** **20A0318-45**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 1:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53-70-3	**Dibenzo(a,h)anthracene**	**2690**		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
132-64-9	**Dibenzofuran**	**3360**		ug/kg dry	235	469	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/15/2020 15:20	OW
84-66-2	Diethyl phthalate	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
131-11-3	**Dimethyl phthalate**	**119**		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
206-44-0	**Fluoranthene**	**38300**		ug/kg dry	1180	2350	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/15/2020 14:49	OW
86-73-7	**Fluorene**	**4040**		ug/kg dry	235	469	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/15/2020 15:20	OW
118-74-1	Hexachlorobenzene	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
67-72-1	Hexachloroethane	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
193-39-5	**Indeno(1,2,3-cd)pyrene**	**5910**		ug/kg dry	235	469	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/15/2020 15:20	OW
78-59-1	Isophorone	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
91-20-3	**Naphthalene**	**1710**		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
98-95-3	Nitrobenzene	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
62-75-9	N-Nitrosodimethylamine	ND	CCV-L	ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW
85-01-8	**Phenanthrene**	**38300**		ug/kg dry	1180	2350	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/15/2020 14:49	OW
108-95-2	Phenol	ND		ug/kg dry	47.1	93.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/14/2020 17:18	OW

Sample Information

Client Sample ID: **Soil Boring 12 (12-13feet)-23** **York Sample ID:** **20A0318-45**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 1:00 pm	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	**Pyrene**	**26700**		ug/kg dry	1180	2350	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/13/2020 13:45	01/15/2020 14:49	OW

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*47.9 %*	*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*51.5 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*100 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*57.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*89.2 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*67.6 %*	*24-116*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**dimethyl Naphthalene isomer**	**1650**	J	ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 17:18	OW
NA	**diphenylmethane Isomer**	**1130**	J	ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 17:18	OW
NA	**unknown PAH MW=182**	**3680**	J	ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 17:18	OW
NA	**unknown PAH MW=213**	**1050**	J	ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 17:18	OW
NA	**unknown PAH MW=252**	**11900**	J	ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 17:18	OW
NA	**unknown PAH MW=253**	**1880**	J	ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 17:18	OW
NA	**unknown PAH MW=258**	**3150**	J	ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 17:18	OW
NA	**unknown PAH MW=264**	**2180**	J	ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 17:18	OW
NA	**unknown PAH MW=266**	**6980**	J	ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 17:18	OW
NA	**unknown PAH MW=268**	**2630**	J	ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 17:18	OW
NA	**unknown PAH MW=276**	**1880**	J	ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 17:18	OW
NA	**unknown PAH MW=278**	**4950**	J	ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 17:18	OW
NA	**unknown PAH MW=279**	**1130**	J	ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 17:18	OW
NA	**unknown PAH MW=280**	**1650**	J	ug/kg dry			2	EPA 8270D Certifications:	01/13/2020 13:45	01/14/2020 17:18	OW

Sample Information

Client Sample ID: **Soil Boring 12 (12-13feet)-23** **York Sample ID:** **20A0318-45**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 1:00 pm	01/09/2020

Pesticides, 8081 target list **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:03	CM
72-55-9	4,4'-DDE	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:03	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:03	CM
309-00-2	Aldrin	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:03	CM
319-84-6	alpha-BHC	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:03	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/14/2020 08:03	01/16/2020 14:03	CM
319-85-7	beta-BHC	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:03	CM
57-74-9	Chlordane, total	ND		ug/kg dry	37.8	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:03	CM
319-86-8	delta-BHC	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:03	CM
60-57-1	Dieldrin	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:03	CM
959-98-8	Endosulfan I	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:03	CM
33213-65-9	Endosulfan II	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	01/14/2020 08:03	01/16/2020 14:03	CM
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:03	CM
72-20-8	Endrin	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:03	CM
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:03	CM
53494-70-5	Endrin ketone	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:03	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:03	CM
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/14/2020 08:03	01/16/2020 14:03	CM
76-44-8	Heptachlor	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:03	CM
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:03	CM
72-43-5	Methoxychlor	ND		ug/kg dry	9.44	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:03	CM

Sample Information

Client Sample ID: **Soil Boring 12 (12-13feet)-23** **York Sample ID:** **20A0318-45**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 1:00 pm	01/09/2020

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND		ug/kg dry	95.5	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:03	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*65.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*36.9 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 01:03	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 01:03	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 01:03	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 01:03	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 01:03	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 01:03	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 01:03	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications:	01/14/2020 08:03	01/16/2020 01:03	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*75.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*92.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7090**		mg/kg dry	5.78	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:45	JAM
7440-36-0	Antimony	ND		mg/kg dry	2.89	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:45	JAM
7440-38-2	**Arsenic**	**11.8**		mg/kg dry	1.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:45	JAM

Sample Information

Client Sample ID: **Soil Boring 12 (12-13feet)-23** **York Sample ID:** **20A0318-45**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 1:00 pm	01/09/2020

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-39-3	**Barium**	**171**		mg/kg dry	2.89	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:45	JAM
7440-41-7	Beryllium	ND		mg/kg dry	0.058	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:45	JAM
7440-43-9	**Cadmium**	**0.839**		mg/kg dry	0.347	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:45	JAM
7440-70-2	**Calcium**	**51400**		mg/kg dry	5.78	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:45	JAM
7440-47-3	**Chromium**	**23.8**		mg/kg dry	0.578	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:45	JAM
7440-48-4	**Cobalt**	**8.38**		mg/kg dry	0.462	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:45	JAM
7440-50-8	**Copper**	**198**		mg/kg dry	2.31	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:45	JAM
7439-89-6	**Iron**	**16700**		mg/kg dry	28.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:45	JAM
7439-92-1	**Lead**	**521**		mg/kg dry	0.578	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:45	JAM
7439-95-4	**Magnesium**	**3850**		mg/kg dry	5.78	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:45	JAM
7439-96-5	**Manganese**	**209**		mg/kg dry	0.578	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:45	JAM
7440-02-0	**Nickel**	**24.0**		mg/kg dry	1.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:45	JAM
7440-09-7	**Potassium**	**1070**	B	mg/kg dry	5.78	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:45	JAM
7782-49-2	Selenium	ND		mg/kg dry	2.89	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:45	JAM
7440-22-4	Silver	ND		mg/kg dry	0.578	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:45	JAM
7440-23-5	**Sodium**	**412**		mg/kg dry	57.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:45	JAM
7440-28-0	Thallium	ND		mg/kg dry	2.89	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:45	JAM
7440-62-2	**Vanadium**	**28.2**		mg/kg dry	1.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:45	JAM
7440-66-6	**Zinc**	**332**		mg/kg dry	2.89	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:45	JAM

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**1.71**		mg/kg dry	0.0347	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	01/10/2020 16:23	01/10/2020 17:53	SY

Sample Information

Client Sample ID: **Soil Boring 12 (12-13feet)-23** **York Sample ID:** **20A0318-45**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 1:00 pm	01/09/2020

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.578	1	EPA 9014/9010C	01/15/2020 10:50	01/15/2020 16:58	MSP
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**86.5**		%	0.100	1	SM 2540G	01/14/2020 16:29	01/15/2020 10:27	JAG
							Certifications: CTDOH			

Sample Information

Client Sample ID: **Soil Boring 12 (12-13feet)-23 VOC** **York Sample ID:** **20A0318-46**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 1:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:02	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:02	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:02	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:02	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:02	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:02	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:02	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:02	LLJ
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE			
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:02	LLJ
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP			

Sample Information

Client Sample ID: **Soil Boring 12 (12-13feet)-23 VOC** **York Sample ID:** **20A0318-46**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 1:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 08:02	LLJ
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	65	130	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 08:02	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
591-78-6	2-Hexanone	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
67-64-1	**Acetone**	**86**		ug/kg dry	6.5	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
107-02-8	Acrolein	ND		ug/kg dry	6.5	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
107-13-1	Acrylonitrile	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
71-43-2	Benzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
74-97-5	Bromochloromethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 08:02	LLJ
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
75-25-2	Bromoform	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ

Sample Information

Client Sample ID: **Soil Boring 12 (12-13feet)-23 VOC** **York Sample ID:** **20A0318-46**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 1:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
75-15-0	Carbon disulfide	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
75-00-3	Chloroethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
67-66-3	Chloroform	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
74-87-3	Chloromethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
110-82-7	Cyclohexane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:47	01/15/2020 08:02	LLJ
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:47	01/15/2020 08:02	LLJ
74-95-3	Dibromomethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:47	01/15/2020 08:02	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:47	01/15/2020 08:02	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:47	01/15/2020 08:02	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
79-20-9	Methyl acetate	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:47	01/15/2020 08:02	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	01/14/2020 06:47	01/15/2020 08:02	LLJ
75-09-2	**Methylene chloride**	**9.0**	J	ug/kg dry	6.5	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ

Sample Information

Client Sample ID: **Soil Boring 12 (12-13feet)-23 VOC** **York Sample ID:** **20A0318-46**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 1:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes: **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 08:02	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.5	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 08:02	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
100-42-5	Styrene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 08:02	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
108-88-3	Toluene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH	01/14/2020 06:47	01/15/2020 08:02	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.3	6.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.8	20	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:02	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*103 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*100 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*109 %*	*76-130*

Sample Information

Client Sample ID: **Soil Boring 12 (12-13feet)-23 VOC** **York Sample ID:** **20A0318-46**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 1:00 pm	01/09/2020

Volatile Organics, Tentatively Identified Cmpds. **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:47	01/15/2020 08:02	LLJ

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**76.8**		%	0.100	1	SM 2540G Certifications: CTDOH	01/16/2020 16:41	01/16/2020 16:50	WL

Sample Information

Client Sample ID: **Soil Boring 12 (14-15feet)-24** **York Sample ID:** **20A0318-47**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	102	204	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	102	204	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW

Sample Information

Client Sample ID: **Soil Boring 12 (14-15feet)-24** **York Sample ID:** **20A0318-47**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	51.1	102	2	EPA 8270D	01/14/2020 07:57	01/14/2020 17:48	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	51.1	102	2	EPA 8270D	01/14/2020 07:57	01/14/2020 17:48	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	102	204	2	EPA 8270D	01/14/2020 07:57	01/14/2020 17:48	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	51.1	102	2	EPA 8270D	01/14/2020 07:57	01/14/2020 17:48	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	51.1	102	2	EPA 8270D	01/14/2020 07:57	01/14/2020 17:48	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	51.1	102	2	EPA 8270D	01/14/2020 07:57	01/14/2020 17:48	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-57-8	2-Chlorophenol	ND		ug/kg dry	51.1	102	2	EPA 8270D	01/14/2020 07:57	01/14/2020 17:48	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	51.1	102	2	EPA 8270D	01/14/2020 07:57	01/14/2020 17:48	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		ug/kg dry	51.1	102	2	EPA 8270D	01/14/2020 07:57	01/14/2020 17:48	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-74-4	2-Nitroaniline	ND		ug/kg dry	102	204	2	EPA 8270D	01/14/2020 07:57	01/14/2020 17:48	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-75-5	2-Nitrophenol	ND		ug/kg dry	51.1	102	2	EPA 8270D	01/14/2020 07:57	01/14/2020 17:48	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	51.1	102	2	EPA 8270D	01/14/2020 07:57	01/14/2020 17:48	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	51.1	102	2	EPA 8270D	01/14/2020 07:57	01/14/2020 17:48	OW
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
99-09-2	3-Nitroaniline	ND		ug/kg dry	102	204	2	EPA 8270D	01/14/2020 07:57	01/14/2020 17:48	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	102	204	2	EPA 8270D	01/14/2020 07:57	01/14/2020 17:48	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	51.1	102	2	EPA 8270D	01/14/2020 07:57	01/14/2020 17:48	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	51.1	102	2	EPA 8270D	01/14/2020 07:57	01/14/2020 17:48	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
106-47-8	4-Chloroaniline	ND		ug/kg dry	51.1	102	2	EPA 8270D	01/14/2020 07:57	01/14/2020 17:48	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	51.1	102	2	EPA 8270D	01/14/2020 07:57	01/14/2020 17:48	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-01-6	4-Nitroaniline	ND		ug/kg dry	102	204	2	EPA 8270D	01/14/2020 07:57	01/14/2020 17:48	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
100-02-7	4-Nitrophenol	ND		ug/kg dry	102	204	2	EPA 8270D	01/14/2020 07:57	01/14/2020 17:48	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 12 (14-15feet)-24** **York Sample ID:** **20A0318-47**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
208-96-8	Acenaphthylene	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
98-86-2	Acetophenone	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
62-53-3	Aniline	ND		ug/kg dry	204	408	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
120-12-7	Anthracene	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
1912-24-9	Atrazine	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
100-52-7	Benzaldehyde	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	204	408	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
56-55-3	**Benzo(a)anthracene**	**147**		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
50-32-8	**Benzo(a)pyrene**	**130**		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
205-99-2	**Benzo(b)fluoranthene**	**105**		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
191-24-2	**Benzo(g,h,i)perylene**	**79.0**	J	ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
207-08-9	**Benzo(k)fluoranthene**	**96.1**	J	ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
65-85-0	Benzoic acid	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
100-51-6	Benzyl alcohol	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
105-60-2	Caprolactam	ND		ug/kg dry	102	204	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
86-74-8	Carbazole	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW

Sample Information

Client Sample ID: **Soil Boring 12 (14-15feet)-24** **York Sample ID:** **20A0318-47**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
218-01-9	**Chrysene**	**130**		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
132-64-9	Dibenzofuran	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
84-66-2	Diethyl phthalate	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
131-11-3	**Dimethyl phthalate**	**87.2**	J	ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
206-44-0	**Fluoranthene**	**261**		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
86-73-7	Fluorene	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
118-74-1	Hexachlorobenzene	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
67-72-1	Hexachloroethane	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
193-39-5	**Indeno(1,2,3-cd)pyrene**	**70.9**	J	ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
78-59-1	Isophorone	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
91-20-3	Naphthalene	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
98-95-3	Nitrobenzene	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
62-75-9	N-Nitrosodimethylamine	ND	CCV-L	ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
85-01-8	**Phenanthrene**	**102**		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW

Sample Information

Client Sample ID: **Soil Boring 12 (14-15feet)-24** **York Sample ID:** **20A0318-47**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 pm	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW
129-00-0	**Pyrene**	**275**		ug/kg dry	51.1	102	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 17:48	OW

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*62.7 %*		*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*66.4 %*		*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*121 %*	S-08	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*68.8 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*112 %*	S-08	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*91.4 %*		*24-116*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/kg dry			2	EPA 8270D Certifications:	01/14/2020 07:57	01/14/2020 17:48	OW

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.01	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:25	CM
72-55-9	**4,4'-DDE**	**29.3**		ug/kg dry	2.01	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:25	CM
50-29-3	**4,4'-DDT**	**39.1**		ug/kg dry	2.01	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:25	CM
309-00-2	Aldrin	ND		ug/kg dry	2.01	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:25	CM
319-84-6	alpha-BHC	ND		ug/kg dry	2.01	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:25	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.01	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/14/2020 08:03	01/15/2020 17:25	CM
319-85-7	beta-BHC	ND		ug/kg dry	2.01	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:25	CM
57-74-9	Chlordane, total	ND		ug/kg dry	40.2	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:25	CM
319-86-8	delta-BHC	ND		ug/kg dry	2.01	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/15/2020 17:25	CM

Sample Information

Client Sample ID: **Soil Boring 12 (14-15feet)-24** **York Sample ID:** **20A0318-47**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 pm	01/09/2020

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
60-57-1	Dieldrin	ND		ug/kg dry	2.01	5	EPA 8081B	01/14/2020 08:03	01/15/2020 17:25	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
959-98-8	Endosulfan I	ND		ug/kg dry	2.01	5	EPA 8081B	01/14/2020 08:03	01/15/2020 17:25	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
33213-65-9	Endosulfan II	ND		ug/kg dry	2.01	5	EPA 8081B	01/14/2020 08:03	01/15/2020 17:25	CM
							Certifications:	CTDOH,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.01	5	EPA 8081B	01/14/2020 08:03	01/15/2020 17:25	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-20-8	Endrin	ND		ug/kg dry	2.01	5	EPA 8081B	01/14/2020 08:03	01/15/2020 17:25	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.01	5	EPA 8081B	01/14/2020 08:03	01/15/2020 17:25	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
53494-70-5	Endrin ketone	ND		ug/kg dry	2.01	5	EPA 8081B	01/14/2020 08:03	01/15/2020 17:25	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.01	5	EPA 8081B	01/14/2020 08:03	01/15/2020 17:25	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.01	5	EPA 8081B	01/14/2020 08:03	01/15/2020 17:25	CM
							Certifications:	NELAC-NY10854,NJDEP		
76-44-8	Heptachlor	ND		ug/kg dry	2.01	5	EPA 8081B	01/14/2020 08:03	01/15/2020 17:25	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.01	5	EPA 8081B	01/14/2020 08:03	01/15/2020 17:25	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
72-43-5	Methoxychlor	ND		ug/kg dry	10.0	5	EPA 8081B	01/14/2020 08:03	01/15/2020 17:25	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
8001-35-2	Toxaphene	ND		ug/kg dry	102	5	EPA 8081B	01/14/2020 08:03	01/15/2020 17:25	CM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*72.2 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*81.7 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0203	1	EPA 8082A	01/14/2020 08:03	01/16/2020 01:17	SR
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0203	1	EPA 8082A	01/14/2020 08:03	01/16/2020 01:17	SR
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0203	1	EPA 8082A	01/14/2020 08:03	01/16/2020 01:17	SR
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0203	1	EPA 8082A	01/14/2020 08:03	01/16/2020 01:17	SR
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Sample Information

Client Sample ID: **Soil Boring 12 (14-15feet)-24** **York Sample ID:** **20A0318-47**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 pm	01/09/2020

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0203	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 01:17	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0203	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 01:17	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0203	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 01:17	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0203	1	EPA 8082A Certifications:	01/14/2020 08:03	01/16/2020 01:17	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*93.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*87.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7440**		mg/kg dry	6.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:48	JAM
7440-36-0	**Antimony**	**6.54**		mg/kg dry	3.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:48	JAM
7440-38-2	**Arsenic**	**3.28**		mg/kg dry	1.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:48	JAM
7440-39-3	**Barium**	**62.4**		mg/kg dry	3.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:48	JAM
7440-41-7	Beryllium	ND		mg/kg dry	0.062	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:48	JAM
7440-43-9	Cadmium	ND		mg/kg dry	0.372	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:48	JAM
7440-70-2	**Calcium**	**1930**		mg/kg dry	6.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:48	JAM
7440-47-3	**Chromium**	**15.5**		mg/kg dry	0.619	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:48	JAM
7440-48-4	**Cobalt**	**6.40**		mg/kg dry	0.495	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:48	JAM
7440-50-8	**Copper**	**32.3**		mg/kg dry	2.48	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:48	JAM
7439-89-6	**Iron**	**17400**		mg/kg dry	31.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:48	JAM
7439-92-1	**Lead**	**663**		mg/kg dry	0.619	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:48	JAM
7439-95-4	**Magnesium**	**2970**		mg/kg dry	6.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:48	JAM
7439-96-5	**Manganese**	**355**		mg/kg dry	0.619	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:48	JAM

Sample Information

Client Sample ID: **Soil Boring 12 (14-15feet)-24** **York Sample ID:** **20A0318-47**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 pm	01/09/2020

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	**Nickel**	**14.9**		mg/kg dry	1.24	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:48	JAM
7440-09-7	**Potassium**	**1600**	B	mg/kg dry	6.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:48	JAM
7782-49-2	Selenium	ND		mg/kg dry	3.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:48	JAM
7440-22-4	Silver	ND		mg/kg dry	0.619	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:48	JAM
7440-23-5	**Sodium**	**170**		mg/kg dry	61.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:48	JAM
7440-28-0	Thallium	ND		mg/kg dry	3.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:48	JAM
7440-62-2	**Vanadium**	**17.8**		mg/kg dry	1.24	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:48	JAM
7440-66-6	**Zinc**	**60.2**		mg/kg dry	3.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:48	JAM

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0561**		mg/kg dry	0.0372	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	01/10/2020 16:23	01/10/2020 18:00	SY

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.619	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/15/2020 10:50	01/15/2020 16:58	MSP

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**80.8**		%	0.100	1	SM 2540G Certifications: CTDOH	01/14/2020 16:29	01/15/2020 10:27	JAG

Sample Information

Client Sample ID: **Soil Boring 12 (14-15feet)-24 VOC** **York Sample ID:** **20A0318-48**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 08:29	LLJ
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	01/14/2020 06:47	01/15/2020 08:29	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 08:29	LLJ
95-63-6	**1,2,4-Trimethylbenzene**	**8.1**		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
123-91-1	1,4-Dioxane	ND		ug/kg dry	64	130	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 08:29	LLJ
78-93-3	2-Butanone	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ

Sample Information

Client Sample ID: **Soil Boring 12 (14-15feet)-24 VOC** **York Sample ID:** **20A0318-48**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes: **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
67-64-1	**Acetone**	**31**		ug/kg dry	6.4	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
107-02-8	Acrolein	ND		ug/kg dry	6.4	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
107-13-1	Acrylonitrile	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
71-43-2	Benzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
74-97-5	Bromochloromethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 08:29	LLJ
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
75-25-2	Bromoform	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
74-83-9	Bromomethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
75-15-0	Carbon disulfide	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
75-00-3	Chloroethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
67-66-3	Chloroform	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
74-87-3	Chloromethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
110-82-7	Cyclohexane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 08:29	LLJ
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 08:29	LLJ
74-95-3	Dibromomethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 08:29	LLJ

Sample Information

Client Sample ID: **Soil Boring 12 (14-15feet)-24 VOC** **York Sample ID:** **20A0318-48**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 08:29	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 08:29	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
79-20-9	Methyl acetate	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 08:29	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 08:29	LLJ
75-09-2	Methylene chloride	ND		ug/kg dry	6.4	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 08:29	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.4	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 08:29	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
100-42-5	Styrene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 08:29	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
108-88-3	Toluene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ

Sample Information

Client Sample ID: **Soil Boring 12 (14-15feet)-24 VOC** **York Sample ID:** **20A0318-48**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 7:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH	01/14/2020 06:47	01/15/2020 08:29	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.6	19	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:29	LLJ

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*103 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.2 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:** VOA-CONT

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**butyltoluene isomer**	**10**		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:47	01/15/2020 08:29	LLJ
NA	**methylethyl benzene isomer**	**8.1**		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:47	01/15/2020 08:29	LLJ
NA	**methylpropenyl benzene isomers**	**22**		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:47	01/15/2020 08:29	LLJ
NA	**Tetramethyl Benzene isomer**	**15**		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:47	01/15/2020 08:29	LLJ

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**77.8**		%	0.100	1	SM 2540G Certifications: CTDOH	01/16/2020 16:41	01/16/2020 16:50	WL

Sample Information

Client Sample ID: **Soil Boring 13 (3-4feet)-25** **York Sample ID:** **20A0318-49**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 3:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	96.0	192	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	96.0	192	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	96.0	192	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
95-57-8	2-Chlorophenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
95-48-7	2-Methylphenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
88-74-4	2-Nitroaniline	ND		ug/kg dry	96.0	192	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
88-75-5	2-Nitrophenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW

Sample Information

Client Sample ID: **Soil Boring 13 (3-4feet)-25** **York Sample ID:** **20A0318-49**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 3:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
99-09-2	3-Nitroaniline	ND		ug/kg dry	96.0	192	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	96.0	192	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
106-47-8	4-Chloroaniline	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
100-01-6	4-Nitroaniline	ND		ug/kg dry	96.0	192	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
100-02-7	4-Nitrophenol	ND		ug/kg dry	96.0	192	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
83-32-9	**Acenaphthene**	**81.3**	J	ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
208-96-8	**Acenaphthylene**	**51.4**	J	ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
98-86-2	Acetophenone	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
62-53-3	Aniline	ND		ug/kg dry	192	384	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
120-12-7	**Anthracene**	**263**		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
1912-24-9	Atrazine	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
100-52-7	Benzaldehyde	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
92-87-5	Benzidine	ND	CCV-L	ug/kg dry	192	384	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
56-55-3	**Benzo(a)anthracene**	**965**		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
50-32-8	**Benzo(a)pyrene**	**941**		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
205-99-2	**Benzo(b)fluoranthene**	**779**		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
191-24-2	**Benzo(g,h,i)perylene**	**523**		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW

Sample Information

Client Sample ID: **Soil Boring 13 (3-4feet)-25** **York Sample ID:** **20A0318-49**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 3:00 pm	01/09/2020

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

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	**Benzo(k)fluoranthene**	**694**		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
65-85-0	Benzoic acid	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
100-51-6	Benzyl alcohol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
105-60-2	Caprolactam	ND		ug/kg dry	96.0	192	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
86-74-8	**Carbazole**	**85.2**	J	ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
218-01-9	**Chrysene**	**876**		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
53-70-3	**Dibenzo(a,h)anthracene**	**200**		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
132-64-9	Dibenzofuran	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
84-66-2	Diethyl phthalate	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
131-11-3	**Dimethyl phthalate**	**92.8**	J	ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
206-44-0	**Fluoranthene**	**2050**		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
86-73-7	**Fluorene**	**76.0**	J	ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
118-74-1	Hexachlorobenzene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW

Sample Information

Client Sample ID: **Soil Boring 13 (3-4feet)-25** **York Sample ID:** **20A0318-49**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 3:00 pm	01/09/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
193-39-5	**Indeno(1,2,3-cd)pyrene**	**524**		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
78-59-1	Isophorone	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
91-20-3	Naphthalene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
98-95-3	Nitrobenzene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
62-75-9	N-Nitrosodimethylamine	ND	CCV-L	ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
87-86-5	Pentachlorophenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
85-01-8	**Phenanthrene**	**1160**		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
108-95-2	Phenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW
129-00-0	**Pyrene**	**2020**		ug/kg dry	48.1	96.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 07:57	01/14/2020 18:19	OW

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*54.6 %*		*20-108*
4165-62-2	*Surrogate: SURR: Phenol-d5*	*59.6 %*		*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*115 %*	S-08	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*68.9 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*113 %*	S-08	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*91.8 %*		*24-116*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**unknown PAH MW=216**	**844**	J	ug/kg dry			2	EPA 8270D Certifications:	01/14/2020 07:57	01/14/2020 18:19	OW
NA	**unknown PAH MW=252**	**1380**	J	ug/kg dry			2	EPA 8270D Certifications:	01/14/2020 07:57	01/14/2020 18:19	OW
NA	**unknown PAH MW=266**	**1530**	J	ug/kg dry			2	EPA 8270D Certifications:	01/14/2020 07:57	01/14/2020 18:19	OW

Sample Information

Client Sample ID: **Soil Boring 13 (3-4feet)-25** **York Sample ID:** **20A0318-49**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 3:00 pm	01/09/2020

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**unknown PAH MW=278**	**2000**	J	ug/kg dry			2	EPA 8270D Certifications:	01/14/2020 07:57	01/14/2020 18:19	OW

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:20	CM
72-55-9	4,4'-DDE	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:20	CM
50-29-3	4,4'-DDT	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:20	CM
309-00-2	Aldrin	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:20	CM
319-84-6	alpha-BHC	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:20	CM
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/14/2020 08:03	01/16/2020 14:20	CM
319-85-7	beta-BHC	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:20	CM
57-74-9	Chlordane, total	ND		ug/kg dry	37.7	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:20	CM
319-86-8	delta-BHC	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:20	CM
60-57-1	Dieldrin	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:20	CM
959-98-8	Endosulfan I	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:20	CM
33213-65-9	Endosulfan II	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	01/14/2020 08:03	01/16/2020 14:20	CM
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:20	CM
72-20-8	Endrin	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:20	CM
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:20	CM
53494-70-5	Endrin ketone	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:20	CM
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:20	CM
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	01/14/2020 08:03	01/16/2020 14:20	CM

Sample Information

Client Sample ID: **Soil Boring 13 (3-4feet)-25** **York Sample ID:** **20A0318-49**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 3:00 pm	01/09/2020

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-44-8	Heptachlor	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:20	CM
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:20	CM
72-43-5	Methoxychlor	ND		ug/kg dry	9.43	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:20	CM
8001-35-2	Toxaphene	ND		ug/kg dry	95.5	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 14:20	CM

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*62.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*39.4 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 01:30	SR
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 01:30	SR
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 01:30	SR
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 01:30	SR
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 01:30	SR
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 01:30	SR
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	01/14/2020 08:03	01/16/2020 01:30	SR
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications:	01/14/2020 08:03	01/16/2020 01:30	SR

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*79.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*84.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

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

Sample Information

Client Sample ID: **Soil Boring 13 (3-4feet)-25** **York Sample ID:** **20A0318-49**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 3:00 pm	01/09/2020

Metals, Target Analyte **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9820**		mg/kg dry	5.83	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:56	JAM
7440-36-0	Antimony	ND		mg/kg dry	2.92	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:56	JAM
7440-38-2	**Arsenic**	**12.0**		mg/kg dry	1.75	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:56	JAM
7440-39-3	**Barium**	**284**		mg/kg dry	2.92	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:56	JAM
7440-41-7	Beryllium	ND		mg/kg dry	0.058	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:56	JAM
7440-43-9	**Cadmium**	**1.06**		mg/kg dry	0.350	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:56	JAM
7440-70-2	**Calcium**	**12900**		mg/kg dry	5.83	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:56	JAM
7440-47-3	**Chromium**	**27.9**		mg/kg dry	0.583	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:56	JAM
7440-48-4	**Cobalt**	**12.2**		mg/kg dry	0.467	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:56	JAM
7440-50-8	**Copper**	**359**		mg/kg dry	2.33	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:56	JAM
7439-89-6	**Iron**	**17400**		mg/kg dry	29.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:56	JAM
7439-92-1	**Lead**	**492**		mg/kg dry	0.583	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:56	JAM
7439-95-4	**Magnesium**	**4350**		mg/kg dry	5.83	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:56	JAM
7439-96-5	**Manganese**	**334**		mg/kg dry	0.583	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:56	JAM
7440-02-0	**Nickel**	**31.3**		mg/kg dry	1.17	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:56	JAM
7440-09-7	**Potassium**	**1380**	B	mg/kg dry	5.83	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:56	JAM
7782-49-2	Selenium	ND		mg/kg dry	2.92	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:56	JAM
7440-22-4	Silver	ND		mg/kg dry	0.583	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:56	JAM
7440-23-5	**Sodium**	**399**		mg/kg dry	58.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:56	JAM
7440-28-0	Thallium	ND		mg/kg dry	2.92	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:56	JAM
7440-62-2	**Vanadium**	**30.2**		mg/kg dry	1.17	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:56	JAM
7440-66-6	**Zinc**	**493**		mg/kg dry	2.92	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	01/10/2020 10:22	01/13/2020 13:56	JAM

Sample Information

Client Sample ID: **Soil Boring 13 (3-4feet)-25** **York Sample ID:** **20A0318-49**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 3:00 pm	01/09/2020

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**2.29**		mg/kg dry	0.0350	1	EPA 7473	01/10/2020 16:23	01/10/2020 18:09	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.583	1	EPA 9014/9010C	01/15/2020 10:50	01/15/2020 16:58	MSP
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**85.7**		%	0.100	1	SM 2540G	01/14/2020 16:29	01/15/2020 10:27	JAG
							Certifications: CTDOH			

Sample Information

Client Sample ID: **Soil Boring 13 (3-4feet)-25 VOC** **York Sample ID:** **20A0318-50**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 3:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.3	6.7	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			

Sample Information

Client Sample ID: **Soil Boring 13 (3-4feet)-25 VOC** **York Sample ID:** **20A0318-50**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 3:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
123-91-1	1,4-Dioxane	ND		ug/kg dry	67	130	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
78-93-3	2-Butanone	ND		ug/kg dry	3.3	6.7	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
591-78-6	2-Hexanone	ND		ug/kg dry	3.3	6.7	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	3.3	6.7	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
67-64-1	**Acetone**	**29**		ug/kg dry	6.7	13	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-02-8	Acrolein	ND		ug/kg dry	6.7	13	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-13-1	Acrylonitrile	ND		ug/kg dry	3.3	6.7	1	EPA 8260C	01/14/2020 06:47	01/15/2020 08:55	LLJ
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

Sample Information

Client Sample ID: **Soil Boring 13 (3-4feet)-25 VOC** **York Sample ID:** **20A0318-50**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 3:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
74-97-5	Bromochloromethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 08:55	LLJ
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
75-25-2	Bromoform	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
74-83-9	Bromomethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
75-15-0	Carbon disulfide	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
108-90-7	Chlorobenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
75-00-3	Chloroethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
67-66-3	**Chloroform**	**3.5**	J	ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
74-87-3	Chloromethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
110-82-7	Cyclohexane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 08:55	LLJ
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 08:55	LLJ
74-95-3	Dibromomethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 08:55	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 08:55	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 08:55	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
79-20-9	Methyl acetate	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	01/14/2020 06:47	01/15/2020 08:55	LLJ

Sample Information

Client Sample ID: **Soil Boring 13 (3-4feet)-25 VOC** **York Sample ID:** **20A0318-50**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 3:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	01/14/2020 06:47	01/15/2020 08:55	LLJ
75-09-2	Methylene chloride	ND		ug/kg dry	6.7	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 08:55	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.7	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	01/14/2020 06:47	01/15/2020 08:55	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
100-42-5	Styrene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAE	01/14/2020 06:47	01/15/2020 08:55	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
108-88-3	Toluene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH	01/14/2020 06:47	01/15/2020 08:55	LLJ
79-01-6	Trichloroethylene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	10	20	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	01/14/2020 06:47	01/15/2020 08:55	LLJ

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: **Soil Boring 13 (3-4feet)-25 VOC** **York Sample ID:** **20A0318-50**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20A0318	580 Gerard Ave.	Soil	January 6, 2020 3:00 pm	01/09/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*101 %*			*77-125*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*100 %*			*85-120*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*			*76-130*						

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:** **VOA-CONT**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/kg dry			1	EPA 8260C Certifications:	01/14/2020 06:47	01/15/2020 08:55	LLJ

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**74.7**		%	0.100	1	SM 2540G Certifications: CTDOH	01/16/2020 16:41	01/16/2020 16:50	WL

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
20A0318-02	Soil Boring 6 (6-7feet)-11 VOC	40mL 01_Clear Vial Cool to 4° C
20A0318-04	Soil Boring 6 (7-8feet)-12 VOC	40mL 01_Clear Vial Cool to 4° C
20A0318-06	Soil Boring 7 (9-10feet)-13 VOC	40mL 01_Clear Vial Cool to 4° C
20A0318-08	Soil Boring 7 (10-11feet)-14 VOC	40mL 01_Clear Vial Cool to 4° C
20A0318-10	Soil Boring 8 (11-12feet)-15 VOC	40mL 01_Clear Vial Cool to 4° C
20A0318-12	Soil Boring 8 (13-14feet)-16 VOC	40mL 01_Clear Vial Cool to 4° C
20A0318-14	Soil Boring 9 (15-16feet)-17 VOC	40mL 01_Clear Vial Cool to 4° C
20A0318-16	Soil Boring 9 (2-3feet)-18 VOC	40mL 01_Clear Vial Cool to 4° C
20A0318-18	Soil Boring 10 (4-5feet)-19 VOC	40mL 01_Clear Vial Cool to 4° C
20A0318-20	Soil Boring 10 (6-7feet)-20 VOC	40mL 01_Clear Vial Cool to 4° C
20A0318-22	Soil Boring 1 (2-3feet)-1 VOC	40mL Vial with Stir Bar-Cool 4° C
20A0318-24	Soil Boring 2 (4-5feet)-2 VOC	40mL Vial with Stir Bar-Cool 4° C
20A0318-26	Soil Boring 2 (6-7feet)-3 VOC	40mL Vial with Stir Bar-Cool 4° C
20A0318-28	Soil Boring 3 (7-8feet)-4 VOC	40mL 01_Clear Vial Cool to 4° C
20A0318-30	Soil Boring 3 (9-10feet)-5 VOC	40mL 01_Clear Vial Cool to 4° C
20A0318-32	Soil Boring 3 (11-12feet)-6 VOC	40mL 01_Clear Vial Cool to 4° C
20A0318-34	Soil Boring 4 (13-14feet)-7 VOC	40mL 01_Clear Vial Cool to 4° C
20A0318-36	Soil Boring 4 (15-16feet)-8 VOC	40mL 01_Clear Vial Cool to 4° C
20A0318-38	Soil Boring 5 (2-3feet)-9 VOC	40mL 01_Clear Vial Cool to 4° C
20A0318-40	Soil Boring 5 (9-5feet)-10 VOC	40mL 01_Clear Vial Cool to 4° C
20A0318-42	Soil Boring 11 (8-9feet)-21 VOC	40mL 01_Clear Vial Cool to 4° C
20A0318-44	Soil Boring 11 (10-11feet)-22 VOC	40mL 01_Clear Vial Cool to 4° C
20A0318-46	Soil Boring 12 (12-13feet)-23 VOC	40mL 01_Clear Vial Cool to 4° C
20A0318-48	Soil Boring 12 (14-15feet)-24 VOC	40mL 01_Clear Vial Cool to 4° C
20A0318-50	Soil Boring 13 (3-4feet)-25 VOC	40mL 01_Clear Vial Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

M-MBLk	Analyte was detected in the batch method blank above the Reporting Limit.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
CCV-L	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased low.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
M-BLK	The target analyte was detected above the RL in the batch method blank. All samples showed >10x the concentration in the blank for this analyte. Data are reported.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
M-DUPS	The RPD between the native sample and the duplicate is outside of limits due to sample non-homogeneity
VOA-CONT	Non-Compliant - the container(s) provided by the client for soil volatiles do not meet the requirements of EPA SW846-5035A. Results reported below 200 ug/kg may be biased low due to samples not being collected according to EPA SW846 5035A requirements.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
M-SRD1	The serial dilution for this element was outside control limits.
QC-LCS	LCS/LCS Dup recovery was above laboratory control limits. Sample does not contain any target compounds; therefore sample results are acceptable.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
S-08	The recovery of this surrogate was outside of QC limits.
M-CRL	The RL check for this element recovered outside of control limits.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.

Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

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

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

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YORK ANALYTICAL LABORATORIES INC

Field Chain-of-Custody Record

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YORK Project No. 20A0318

Page 1 of 3

YOUR Information	Report To:	Invoice To:
Company: SPV	Company:	Company:
Address: 19 WASY 36th ST	Address: same as information	Address:
Phone.: 917-399-7367	Phone.:	Phone.:
Contact: Anthony Rizvi	Contact:	Contact:
E-mail: acrizvi@buffalo.edu	E-mail:	E-mail:

YOUR Project Number: 580 GOLDAVE

YOUR Project Name: 580 GOLDAVE

YOUR PO#:

Turn-Around Time
- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard (5-7 Day) ✓

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

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

Anthony Rizvi

Matrix Codes
- S - soil / solid
- GW - groundwater
- DW - drinking water
- WW - wastewater
- O - Oil | Other

Samples From
- New York ✓
- New Jersey
- Connecticut
- Pennsylvania
- Other

Report / EDD Type (circle selections)
- Summary Report
- QA Report
- NY ASP A Package
- NY ASP B Package
- CT RCP
- CT RCP DQA/DUE
- NJDEP Reduced Deliverables
- NJDKQP
- Standard Excel EDD
- EQuIS (Standard)
- NYSDEC EQuIS
- NJDEP SRP HazSite
- Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
soil boring 6 (6-7 feet) - 11	soil	1-2-20 15:20	TAL/TCL + 30 and VOC grab	2 oz jars + 4-40mL vials
soil boring 6 (7-8 feet) - 12		1-3-20 9:00		
soil boring 7 (9-10 feet) - 13		1-3-20 10:00		
soil boring 7 (10-11 feet) - 14		1-3-20 11:00		
soil boring 8 (11-12 feet) - 15		1-3-20 14:00		
soil boring 8 (13-14 feet) - 16		1-3-20 15:00		
soil boring 9 (15-16 feet) - 17		1-3-20 16:00		
soil boring 9 (2-3 feet) - 18		1-6-20 8:00		
soil boring 10 (4-5 feet) - 19		1-6-20 9:00		
soil boring 10 (6-7 feet) - 20		1-6-20 10:00		

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: dilution & methanol

Special Instruction
Field Filtered ___
Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Anthony Rizvi	1-9-20 9:15	Allie V York	1/9/20 9:30	Allie V York	1/9/20
Samples Received by / Company	**Date/Time**	**Samples Relinquished by / Company**	**Date/Time**	**Samples Received by / Company**	**Date/Time**
VINAY Malik	1-9-20 1430	VINAY Malik	1-9-20 1930		
Samples Relinquished by / Company	**Date/Time**	**Samples Received by / Company**	**Date/Time**	**Samples Received in LAB by**	**Date/Time**
				TC Malik	1/9/20 1930

Temp. Received at Lab: 3.7 Degrees C

York Analytical Laboratories, Inc.
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YORK ANALYTICAL LABORATORIES INC

Field Chain-of-Custody Record

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YORK Project No. 20A0318

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: DPV	Company:	Company:		RUSH - Next Day
Address:	Address:	Address:		RUSH - Two Day
			YOUR Project Name	RUSH - Three Day
Phone.:	Phone.:	Phone.:		RUSH - Four Day
Contact:	Contact:	Contact:		Standard (5-7 Day) ✓
E-mail:	E-mail:	E-mail:	YOUR PO#:	

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

Anthony Rizzi
Samples Collected by: (print your name above and sign below)

Matrix Codes	Samples From		Report / EDD Type (circle selections)			YORK Reg. Comp.
S - soil / solid	New York	✓	Summary Report	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)
GW - groundwater	New Jersey		QA Report	CT RCP DQA/DUE	EQuIS (Standard)	
DW - drinking water	Connecticut		NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EQuIS	
WW - wastewater	Pennsylvania		NY ASP B Package		NJDEP SRP HazSite	
O - Oil ⋮ Other	Other			NJDKQP	Other:	

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
Soil boring 1 (2-3 feet) - 1	Soil	12-30-19 9:00	TAL / TCL + 30 and of PCB VOC	8 oz Jars + 9-40mL vials
soil boring 1 (4-5 feet) - 2		12-30-19 10:00		
soil boring 2 (6-7 feet) - 3		12-30-19 11:00		
soil boring 2 (7-8 feet) - 4		12-31-19 9:00		
soil boring 3 (9-10 feet) - 5		12-31-19 10:00		
soil boring 3 (11-12 feet) - 6		1-2-20 9:00		
soil boring 4 (13-14 feet) - 7		1-2-20 10:00		
soil boring 4 (15-16 feet) - 8		1-2-20 11:00		
soil boring 5 (2-3 feet) - 9		1-2-20 13:00		
soil boring 5 (4-5 feet) - 10		1-2-20 14:00		

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered ___
Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Anthony Rizzi	1-9-20 9:00	Allie V York	1/9/20 9:30	Allie V York	1/9/20
Samples Received by / Company	**Date/Time**	**Samples Relinquished by / Company**	**Date/Time**	**Samples Received by / Company**	**Date/Time**
Vinny / York	1-9-20 14:30	Vinny / York	1-9-20 1930		
Samples Relinquished by / Company	**Date/Time**	**Samples Received by / Company**	**Date/Time**	**Samples Received in LAB by**	**Date/Time**
				TC Mahler	1/9/20 1930

Temp. Received at Lab 3.7 Degrees C

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Field Chain-of-Custody Record

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YORK Project No. 20A0318

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: DPV	Company:	Company:		RUSH - Next Day
Address: 100 ft	Address: of page 1	Address:	YOUR Project Name	RUSH - Two Day
Phone.:	Phone.:	Phone.:		RUSH - Three Day
Contact:	Contact:	Contact:		RUSH - Four Day
E-mail:	E-mail:	E-mail:	YOUR PO#:	Standard (5-7 Day) ✓

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

Samples Collected by: (print your name above and sign below) Anthony Rizvi

Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
S - soil / solid	New York ✓	Summary Report	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)
GW - groundwater	New Jersey	QA Report	CT RCP DQA/DUE	EQuIS (Standard)	
DW - drinking water	Connecticut	NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EQuIS	
WW - wastewater	Pennsylvania	NY ASP B Package		NJDEP SRP HazSite	
O - Oil ; Other	Other		NJDKQP	Other:	

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
soil boring 11 (8-9 feet) - 21	soil	1-6-20 11:00	TAL / TCL + 30 & VOC 8260	8oz jar of 4-gram vials
soil boring 11 (10-11 feet) - 22	↓	1-6-2012:00	↓	↓
soil boring 12 (12-13 feet) - 23		1-6-2013:00		
soil boring 12 (14-15 feet) - 24		1-6-2019:00		
soil boring 13 (3-4 feet) - 25		1-6-2015:00		

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: _____

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Anthony Rizvi	1-9-20 7:15	Allie v York	1/9/20 9:30	Allie v York	1/9/20
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
VINN/York	1-9-20 14:30	VINN/York	1-9-20 1930		
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				TC Fabian	1/9/20 1930

Temp. Received at Lab 3.7 Degrees C

APPENDIX B

GEI Subsurface (Phase II) Investigation Report Tables

Tables

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential	SB-1 (0'-2') 8/10/2018 Soil		SB-1 (21'-23') 8/10/2018 Soil		SB-2 (0'-2') 8/10/2018 Soil		SB-2 (21'-23') 8/10/2018 Soil		SB-3 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Volatile Organics, 8260 - Comprehensive	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
1,1,1,2-Tetrachloroethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,1,1-Trichloroethane	0.68	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,1,2,2-Tetrachloroethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,1,2-Trichloroethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,1-Dichloroethane	0.27	19	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,1-Dichloroethylene	0.33	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,2,3-Trichlorobenzene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,2,3-Trichloropropane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,2,4-Trichlorobenzene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,2,4-Trimethylbenzene	3.6	47	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.022	
1,2-Dibromo-3-chloropropane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,2-Dibromoethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,2-Dichlorobenzene	1.1	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,2-Dichloroethane	0.02	2.3	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,2-Dichloropropane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,3,5-Trimethylbenzene	8.4	47	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0096	
1,3-Dichlorobenzene	2.4	17	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,4-Dichlorobenzene	1.8	9.8	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
1,4-Dioxane	0.1	9.8	0.055	U	0.0540	U	0.0520	U	0.051	U	0.054	U
2-Butanone	0.12	100	0.0028	U	0.0027	U	0.0026	U	0.0040	J	0.0027	U
2-Hexanone	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
4-Methyl-2-pentanone	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Acetone	0.05	100	0.0083	J	0.023		0.035		0.031		0.041	
Acrolein	~	~	0.0055	U	0.0054	U	0.0052	U	0.0051	U	0.0054	U
Acrylonitrile	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Benzene	0.06	2.9	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Bromochloromethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Bromodichloromethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Bromoform	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Bromomethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Carbon disulfide	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Carbon tetrachloride	0.76	1.4	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Chlorobenzene	1.1	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Chloroethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Chloroform	0.37	10	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Chloromethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
cis-1,2-Dichloroethylene	0.25	59	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
cis-1,3-Dichloropropylene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Cyclohexane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Dibromochloromethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Dibromomethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Dichlorodifluoromethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Ethyl Benzene	1	30	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0034	J
Hexachlorobutadiene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential	SB-1 (0'-2') 8/10/2018 Soil		SB-1 (21'-23') 8/10/2018 Soil		SB-2 (0'-2') 8/10/2018 Soil		SB-2 (21'-23') 8/10/2018 Soil		SB-3 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Isopropylbenzene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Methyl acetate	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Methyl tert-butyl ether (MTBE)	0.93	62	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Methylcyclohexane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Methylene chloride	0.05	51	0.0055	U	0.0054	U	0.0052	U	0.0051	U	0.0054	U
n-Butylbenzene	12	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
n-Propylbenzene	3.9	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
o-Xylene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0075	
p- & m- Xylenes	~	~	0.0055	U	0.0054	U	0.0052	U	0.0051	U	0.0140	
p-Isopropyltoluene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
sec-Butylbenzene	11	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Styrene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
tert-Butyl alcohol (TBA)	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0072	
tert-Butylbenzene	5.9	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Tetrachloroethylene	1.3	5.5	0.0077		0.0027	U	0.0065		0.0074		0.0027	U
Toluene	0.7	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0062	
trans-1,2-Dichloroethylene	0.19	100	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
trans-1,3-Dichloropropylene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
trans-1,4-dichloro-2-butene	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Trichloroethylene	0.47	10	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Trichlorofluoromethane	~	~	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Vinyl Chloride	0.02	0.21	0.0028	U	0.0027	U	0.0026	U	0.0026	U	0.0027	U
Xylenes, Total	0.26	100	0.0083	U	0.0081	U	0.0078	U	0.0077	U	0.022	
Semi-Volatiles, 8270 - Comprehensive	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			2		2		2		2		2	
1,1-Biphenyl	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
1,2,4,5-Tetrachlorobenzene	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
1,2,4-Trichlorobenzene	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
1,2-Dichlorobenzene	1.1	100	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
1,2-Diphenylhydrazine (as Azobenzene)	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
1,3-Dichlorobenzene	2.4	17	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
1,4-Dichlorobenzene	1.8	9.8	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2,3,4,6-Tetrachlorophenol	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
2,4,5-Trichlorophenol	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2,4,6-Trichlorophenol	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2,4-Dichlorophenol	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2,4-Dimethylphenol	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2,4-Dinitrophenol	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
2,4-Dinitrotoluene	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2,6-Dinitrotoluene	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2-Chloronaphthalene	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2-Chlorophenol	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2-Methylnaphthalene	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2-Methylphenol	0.33	100	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
2-Nitroaniline	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
2-Nitrophenol	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
3- & 4-Methylphenols	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential	SB-1 (0'-2') 8/10/2018 Soil		SB-1 (21'-23') 8/10/2018 Soil		SB-2 (0'-2') 8/10/2018 Soil		SB-2 (21'-23') 8/10/2018 Soil		SB-3 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
3,3-Dichlorobenzidine	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
3-Nitroaniline	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
4,6-Dinitro-2-methylphenol	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
4-Bromophenyl phenyl ether	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
4-Chloro-3-methylphenol	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
4-Chloroaniline	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
4-Chlorophenyl phenyl ether	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
4-Nitroaniline	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
4-Nitrophenol	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
Acenaphthene	20	100	0.0590	JD	0.0451	U	0.215	D	0.0427	U	0.0454	U
Acenaphthylene	100	100	0.112	D	0.0451	U	0.0739	JD	0.114	D	0.0454	U
Acetophenone	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Aniline	~	~	0.185	U	0.180	U	0.173	U	0.171	U	0.182	U
Anthracene	100	100	0.171	D	0.0451	U	0.366	D	0.116	D	0.0454	U
Atrazine	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Benzaldehyde	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Benzidine	~	~	0.185	U	0.180	U	0.173	U	0.171	U	0.182	U
Benzo(a)anthracene	1	1	0.692	D	0.131	D	**1.22**	D	0.472	D	0.108	D
Benzo(a)pyrene	1	1	0.824	D	0.173	D	**1.27**	D	0.527	D	0.159	D
Benzo(b)fluoranthene	1	1	0.659	D	0.137	D	**1.03**	D	0.433	D	0.160	D
Benzo(g,h,i)perylene	100	100	0.433	D	0.152	D	0.600	D	0.269	D	0.147	D
Benzo(k)fluoranthene	0.8	1	0.703	D	0.129	D	**1.09**	D	0.467	D	0.125	D
Benzoic acid	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Benzyl alcohol	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Benzyl butyl phthalate	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0522	JD
Bis(2-chloroethoxy)methane	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Bis(2-chloroethyl)ether	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Bis(2-chloroisopropyl)ether	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Bis(2-ethylhexyl)phthalate	~	~	0.0664	JD	0.0451	U	0.0497	JD	0.290	D	0.0454	U
Caprolactam	~	~	0.0923	U	0.0899	U	0.0864	U	0.0852	U	0.0907	U
Carbazole	~	~	0.0561	JD	0.0451	U	0.155	D	0.0427	U	0.0454	U
Chrysene	1	1	0.739	D	0.147	D	**1.27**	D	0.467	D	0.129	D
Dibenzo(a,h)anthracene	0.33	0.33	0.161	D	0.0451	U	0.222	D	0.0988	D	0.0454	U
Dibenzofuran	7	14	0.0463	U	0.0451	U	0.0794	JD	0.0427	U	0.0454	U
Diethyl phthalate	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Dimethyl phthalate	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Di-n-butyl phthalate	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Di-n-octyl phthalate	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Fluoranthene	100	100	1.360	D	0.234	D	2.370	D	0.929	D	0.116	D
Fluorene	30	100	0.0480	JD	0.0451	U	0.116	D	0.0427	U	0.0454	U
Hexachlorobenzene	0.33	0.33	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Hexachlorobutadiene	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Hexachlorocyclopentadiene	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Hexachloroethane	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.370	D	0.0920	D	**0.589**	D	0.258	D	0.125	D
Isophorone	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Naphthalene	12	100	0.0463	U	0.0451	U	0.0829	JD	0.0427	U	0.0454	U

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
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Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential	SB-1 (0'-2') 8/10/2018 Soil		SB-1 (21'-23') 8/10/2018 Soil		SB-2 (0'-2') 8/10/2018 Soil		SB-2 (21'-23') 8/10/2018 Soil		SB-3 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Nitrobenzene	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
N-Nitrosodimethylamine	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
N-nitroso-di-n-propylamine	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
N-Nitrosodiphenylamine	~	~	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Pentachlorophenol	0.8	2.4	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Phenanthrene	100	100	0.624	D	0.119	D	1.520	D	0.515	D	0.0486	JD
Phenol	0.33	100	0.0463	U	0.0451	U	0.0433	U	0.0427	U	0.0454	U
Pyrene	100	100	1.160	D	0.220	D	2	D	0.840	D	0.112	D
Pesticides, 8081 target list	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			5		5		5		5		5	
4,4'-DDD	0.0033	2.6	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
4,4'-DDE	0.0033	1.8	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
4,4'-DDT	0.0033	1.7	**0.00819**	D	0.00178	U	**0.00684**	DP	**0.0107**	D	0.00178	U
Aldrin	0.005	0.019	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
alpha-BHC	0.02	0.097	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
alpha-Chlordane	0.094	0.91	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
beta-BHC	0.036	0.072	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
Chlordane, total	~	~	0.0365	U	0.0356	U	0.0340	U	0.0337	U	0.0357	U
delta-BHC	0.04	100	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
Dieldrin	0.005	0.039	0.00239	D	0.00178	U	0.00261	D	0.00411	DP	0.00178	U
Endosulfan I	2.4	4.8	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
Endosulfan II	2.4	4.8	0.00183	U	0.00178	U	0.00170	U	0.00364	DP	0.00178	U
Endosulfan sulfate	2.4	4.8	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
Endrin	0.014	2.2	0.00514	D	0.00178	U	0.00348	D	0.00923	D	0.00178	U
Endrin aldehyde	~	~	0.00230	D	0.00178	U	0.00217	D	0.00355	D	0.00178	U
Endrin ketone	~	~	0.00660	DP	0.00178	U	0.00170	U	0.0128	DP	0.00178	U
gamma-BHC (Lindane)	0.1	0.28	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
gamma-Chlordane	~	~	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
Heptachlor	0.042	0.42	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
Heptachlor epoxide	~	~	0.00183	U	0.00178	U	0.00170	U	0.00168	U	0.00178	U
Methoxychlor	~	~	0.00913	U	0.00890	U	0.00849	U	0.00842	U	0.00892	U
Toxaphene	~	~	0.0924	U	0.0901	U	0.0860	U	0.0852	U	0.0903	U
Metals, Target Analyte	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
Aluminum	~	~	7,690		11,700		9,310		15,300		16,900	
Antimony	~	~	3.370	B	2.180	B	1.550	B	2.880	B	3.590	B
Arsenic	13	16	7.140		4.200		4.570		4.790		5.570	
Barium	350	350	253		162		**875**		**495**		**509**	
Beryllium	7.2	14	0.138		0.108	U	0.104	U	0.102	U	0.109	U
Cadmium	2.5	2.5	0.713		0.324	U	0.399		0.344		0.659	
Calcium	~	~	15,400		15,300		8,150		6,910		12,600	
Chromium	~	~	19.400		23		17.700		43.800		41.700	
Cobalt	~	~	7.950		14.200		7.610		14.500		17.500	
Copper	50	270	**106**		46.100		29.800		27.200		**54.7**	
Iron	~	~	17,900		24,300		14,700		29,300		31600	
Lead	63	400	**398**		**150**		**109**		35.600		**285**	
Magnesium	~	~	4,150		7,310		3,900		7,500		9,970	

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Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
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Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential	SB-1 (0'-2') 8/10/2018 Soil		SB-1 (21'-23') 8/10/2018 Soil		SB-2 (0'-2') 8/10/2018 Soil		SB-2 (21'-23') 8/10/2018 Soil		SB-3 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Manganese	1600	2000	348		359		294		408		362	
Nickel	30	140	22.100		24		15.500		23.700		**32.4**	
Potassium	~	~	1,720	B	3,890	B	1,860	B	8,780	B	8,690	B
Selenium	3.9	36	1.110	U	1.080	U	1.040	U	1.020	U	1.090	U
Silver	2	36	0.554	U	0.541	U	0.518	U	0.511	U	0.544	U
Sodium	~	~	339	B	200	B	169	B	195	B	319	B
Thallium	~	~	1.110	U	1.080	U	1.040	U	1.020	U	1.090	U
Vanadium	~	~	22.900		31.300		21.600		46.700		47.500	
Zinc	109	2200	**375**		**129**		**259**		**117**		**201**	
Mercury by 7473	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
Mercury	0.18	0.81	**0.395**		**0.457**		0.171		0.0959		**0.474**	
Total Solids			%		%		%		%		%	
Dilution Factor			1		1		1		1		1	
% Solids	~	~	90.3		92.5		96.6		97.8		92	
Polychlorinated Biphenyls (PCB)	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		10	
Aroclor 1016	~	~	0.0184	U	0.018	U	0.0172	U	0.017	U	0.18	U
Aroclor 1221	~	~	0.0184	U	0.018	U	0.0172	U	0.017	U	0.18	U
Aroclor 1232	~	~	0.0184	U	0.018	U	0.0172	U	0.017	U	0.18	U
Aroclor 1242	~	~	0.0184	U	0.018	U	0.0172	U	0.017	U	0.18	U
Aroclor 1248	~	~	0.0184	U	0.018	U	0.0172	U	0.017	U	0.18	U
Aroclor 1254	~	~	0.0184	U	0.018	U	0.0172	U	0.017	U	7.69	D
Aroclor 1260	~	~	0.0184	U	0.018	U	0.0342		0.0499		1.41	D
Total PCBs	0.1	1	0.0184	U	0.018	U	0.0342		0.0499		**9.11**	D

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Phase II Environmental Subsurface Investigation
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Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential	SB-4 (0'-2') 8/10/2018 Soil		SB-4 (17'-19') 8/10/2018 Soil		SB-5 (0'-2') 8/10/2018 Soil		SB-5 (10'-12') 8/10/2018 Soil		SB-6 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Volatile Organics, 8260 - Comprehensive	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
1,1,1,2-Tetrachloroethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,1,1-Trichloroethane	0.68	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,1,2,2-Tetrachloroethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,1,2-Trichloroethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,1-Dichloroethane	0.27	19	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,1-Dichloroethylene	0.33	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2,3-Trichlorobenzene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2,3-Trichloropropane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2,4-Trichlorobenzene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2,4-Trimethylbenzene	3.6	47	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2-Dibromo-3-chloropropane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2-Dibromoethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2-Dichlorobenzene	1.1	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2-Dichloroethane	0.02	2.3	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,2-Dichloropropane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,3,5-Trimethylbenzene	8.4	47	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,3-Dichlorobenzene	2.4	17	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,4-Dichlorobenzene	1.8	9.8	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
1,4-Dioxane	0.1	9.8	0.06	U	0.054	U	0.052	U	0.064	U	0.055	U
2-Butanone	0.12	100	0.003	U	0.0027	U	0.0026	U	0.011		0.0031	J
2-Hexanone	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
4-Methyl-2-pentanone	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Acetone	0.05	100	0.03		**0.074**		0.040		**0.17**		**0.11**	
Acrolein	~	~	0.006	U	0.0054	U	0.0052	U	0.0064	U	0.0055	U
Acrylonitrile	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Benzene	0.06	2.9	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0031	J
Bromochloromethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Bromodichloromethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Bromoform	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Bromomethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Carbon disulfide	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Carbon tetrachloride	0.76	1.4	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Chlorobenzene	1.1	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Chloroethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Chloroform	0.37	10	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Chloromethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
cis-1,2-Dichloroethylene	0.25	59	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
cis-1,3-Dichloropropylene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Cyclohexane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Dibromochloromethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Dibromomethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Dichlorodifluoromethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Ethyl Benzene	1	30	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Hexachlorobutadiene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential	SB-4 (0'-2') 8/10/2018 Soil		SB-4 (17'-19') 8/10/2018 Soil		SB-5 (0'-2') 8/10/2018 Soil		SB-5 (10'-12') 8/10/2018 Soil		SB-6 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Isopropylbenzene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Methyl acetate	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Methyl tert-butyl ether (MTBE)	0.93	62	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Methylcyclohexane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Methylene chloride	0.05	51	0.006	U	0.0054	U	0.0052	U	0.012	J	0.0055	U
n-Butylbenzene	12	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
n-Propylbenzene	3.9	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
o-Xylene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
p- & m- Xylenes	~	~	0.006	U	0.0054	U	0.0052	U	0.0064	U	0.0055	U
p-Isopropyltoluene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
sec-Butylbenzene	11	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Styrene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
tert-Butyl alcohol (TBA)	~	~	0.011		0.014		0.0026	U	0.14		0.017	
tert-Butylbenzene	5.9	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Tetrachloroethylene	1.3	5.5	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Toluene	0.7	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
trans-1,2-Dichloroethylene	0.19	100	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
trans-1,3-Dichloropropylene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
trans-1,4-dichloro-2-butene	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Trichloroethylene	0.47	10	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Trichlorofluoromethane	~	~	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Vinyl Chloride	0.02	0.21	0.003	U	0.0027	U	0.0026	U	0.0032	U	0.0028	U
Xylenes, Total	0.26	100	0.009	U	0.008	U	0.0078	U	0.0097	U	0.0083	U
Semi-Volatiles, 8270 - Comprehensive	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			2		2		2		2		2	
1,1-Biphenyl	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
1,2,4,5-Tetrachlorobenzene	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
1,2,4-Trichlorobenzene	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
1,2-Dichlorobenzene	1.1	100	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
1,2-Diphenylhydrazine (as Azobenzene)	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
1,3-Dichlorobenzene	2.4	17	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
1,4-Dichlorobenzene	1.8	9.8	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2,3,4,6-Tetrachlorophenol	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
2,4,5-Trichlorophenol	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2,4,6-Trichlorophenol	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2,4-Dichlorophenol	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2,4-Dimethylphenol	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2,4-Dinitrophenol	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
2,4-Dinitrotoluene	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2,6-Dinitrotoluene	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2-Chloronaphthalene	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2-Chlorophenol	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2-Methylnaphthalene	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2-Methylphenol	0.33	100	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
2-Nitroaniline	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
2-Nitrophenol	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
3- & 4-Methylphenols	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential	SB-4 (0'-2') 8/10/2018 Soil		SB-4 (17'-19') 8/10/2018 Soil		SB-5 (0'-2') 8/10/2018 Soil		SB-5 (10'-12') 8/10/2018 Soil		SB-6 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
3,3-Dichlorobenzidine	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
3-Nitroaniline	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
4,6-Dinitro-2-methylphenol	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
4-Bromophenyl phenyl ether	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
4-Chloro-3-methylphenol	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
4-Chloroaniline	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
4-Chlorophenyl phenyl ether	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
4-Nitroaniline	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
4-Nitrophenol	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
Acenaphthene	20	100	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.179	D
Acenaphthylene	100	100	0.0725	JD	0.0448	U	0.0436	U	0.0538	U	0.0706	JD
Acetophenone	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Aniline	~	~	0.200	U	0.179	U	0.174	U	0.215	U	0.184	U
Anthracene	100	100	0.169	D	0.0448	U	0.0494	JD	0.0538	U	0.451	D
Atrazine	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Benzaldehyde	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Benzidine	~	~	0.200	U	0.179	U	0.174	U	0.215	U	0.184	U
Benzo(a)anthracene	1	1	0.504	D	0.0448	U	0.135	D	0.0538	U	**1.05**	D
Benzo(a)pyrene	1	1	0.560	D	0.0448	U	0.129	D	0.0538	U	**1.1**	D
Benzo(b)fluoranthene	1	1	0.469	D	0.0448	U	0.113	D	0.0538	U	0.886	D
Benzo(g,h,i)perylene	100	100	0.318	D	0.0448	U	0.0724	JD	0.0538	U	0.562	D
Benzo(k)fluoranthene	0.8	1	0.484	D	0.0448	U	0.117	D	0.0538	U	**0.903**	D
Benzoic acid	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Benzyl alcohol	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Benzyl butyl phthalate	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Bis(2-chloroethoxy)methane	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Bis(2-chloroethyl)ether	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Bis(2-chloroisopropyl)ether	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Bis(2-ethylhexyl)phthalate	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Caprolactam	~	~	0.0997	U	0.0895	U	0.0871	U	0.107	U	0.0920	U
Carbazole	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.128	D
Chrysene	1	1	0.523	D	0.0448	U	0.143	D	0.0538	U	**1.09**	D
Dibenzo(a,h)anthracene	0.33	0.33	0.104	D	0.0448	U	0.0436	U	0.0538	U	0.200	D
Dibenzofuran	7	14	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0757	JD
Diethyl phthalate	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Dimethyl phthalate	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Di-n-butyl phthalate	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Di-n-octyl phthalate	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Fluoranthene	100	100	0.980	D	0.0448	U	0.336	D	0.0867	JD	2.62	D
Fluorene	30	100	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.148	D
Hexachlorobenzene	0.33	0.33	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Hexachlorobutadiene	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Hexachlorocyclopentadiene	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Hexachloroethane	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.269	D	0.0448	U	0.0654	JD	0.0538	U	**0.515**	D
Isophorone	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Naphthalene	12	100	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential	SB-4 (0'-2') 8/10/2018 Soil		SB-4 (17'-19') 8/10/2018 Soil		SB-5 (0'-2') 8/10/2018 Soil		SB-5 (10'-12') 8/10/2018 Soil		SB-6 (0'-2') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Nitrobenzene	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
N-Nitrosodimethylamine	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
N-nitroso-di-n-propylamine	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
N-Nitrosodiphenylamine	~	~	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Pentachlorophenol	0.8	2.4	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Phenanthrene	100	100	0.561	D	0.0448	U	0.275	D	0.0635	JD	1.980	D
Phenol	0.33	100	0.0500	U	0.0448	U	0.0436	U	0.0538	U	0.0461	U
Pyrene	100	100	0.889	D	0.0448	U	0.276	D	0.0773	JD	2.200	D
Pesticides, 8081 target list	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			5		5		5		5		5	
4,4'-DDD	0.0033	2.6	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
4,4'-DDE	0.0033	1.8	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
4,4'-DDT	0.0033	1.7	0.00198	U	0.00176	U	0.00171	U	0.00212	U	**0.00469**	D
Aldrin	0.005	0.019	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
alpha-BHC	0.02	0.097	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
alpha-Chlordane	0.094	0.91	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
beta-BHC	0.036	0.072	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
Chlordane, total	~	~	0.0396	U	0.0352	U	0.0343	U	0.0425	U	0.0362	U
delta-BHC	0.04	100	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
Dieldrin	0.005	0.039	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00242	D
Endosulfan I	2.4	4.8	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
Endosulfan II	2.4	4.8	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
Endosulfan sulfate	2.4	4.8	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
Endrin	0.014	2.2	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00372	D
Endrin aldehyde	~	~	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00203	D
Endrin ketone	~	~	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
gamma-BHC (Lindane)	0.1	0.28	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
gamma-Chlordane	~	~	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
Heptachlor	0.042	0.42	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
Heptachlor epoxide	~	~	0.00198	U	0.00176	U	0.00171	U	0.00212	U	0.00181	U
Methoxychlor	~	~	0.00989	U	0.00880	U	0.00857	U	0.0106	U	0.00904	U
Toxaphene	~	~	0.100	U	0.0891	U	0.0868	U	0.107	U	0.0915	U
Metals, Target Analyte	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
Aluminum	~	~	10,400		7,140		7,860		8,570	B	8,850	B
Antimony	~	~	1.300	B	0.536	U	0.522	U	1.940		1.640	
Arsenic	13	16	5.460		1.550		1.770		3.800		4.790	
Barium	350	350	**938**		29.900		57.300		62.100		215	
Beryllium	7.2	14	0.120	U	0.212		0.184		0.129	U	0.110	U
Cadmium	2.5	2.5	0.384		0.322	U	0.313	U	0.386	U	0.753	
Calcium	~	~	14,600		851		1,920		10,000		10,200	
Chromium	~	~	23.900		10.7		13.3		20.4		17	
Cobalt	~	~	10.300		6.060		4.830		6.370		7.6	
Copper	50	270	41.400		11.500		11.700		13.100		46.8	
Iron	~	~	18,400		13,700		11,100		13,800		14,600	
Lead	63	400	**397**		5.460		59.100		18.200		**328**	
Magnesium	~	~	4,690		2,820		2,870		3,020		3,340	

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Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Manganese	1600	2000	293		257		289		377		240	
Nickel	30	140	19.500		12.8		11		15.600		16.700	
Potassium	~	~	2,480	B	1,040	B	1,110	B	1,700		1,460	
Selenium	3.9	36	1.200	U	1.070	U	1.040	U	1.290	U	1.1	U
Silver	2	36	0.600	U	0.536	U	0.522	U	0.644	U	0.551	U
Sodium	~	~	387	B	96.8	B	170	B	348	B	311	B
Thallium	~	~	1.200	U	1.07	U	1.040	U	1.290	U	1.100	U
Vanadium	~	~	29.200		13.9		15.4		18.6		19.9	
Zinc	109	2200	**210**		38.2		87.3		47.4		**262**	
Mercury by 7473	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
Mercury	0.18	0.81	**0.909**		0.0322	U	0.0873		0.0386	U	**0.286**	
Total Solids			%		%		%		%		%	
Dilution Factor			1		1		1		1		1	
% Solids	~	~	83.4		93.2		95.8		77.6		90.7	
Polychlorinated Biphenyls (PCB)	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			10		1		1		1		1	
Aroclor 1016	~	~	0.2	U	0.0178	U	0.0173	U	0.0214	U	0.0183	U
Aroclor 1221	~	~	0.2	U	0.0178	U	0.0173	U	0.0214	U	0.0183	U
Aroclor 1232	~	~	0.2	U	0.0178	U	0.0173	U	0.0214	U	0.0183	U
Aroclor 1242	~	~	0.2	U	0.0178	U	0.0173	U	0.0214	U	0.0183	U
Aroclor 1248	~	~	0.2	U	0.0178	U	0.0173	U	0.0214	U	0.0183	U
Aroclor 1254	~	~	1.84	D	0.0178	U	0.0173	U	0.0214	U	0.0183	U
Aroclor 1260	~	~	3.13	D	0.0178	U	0.0173	U	0.0214	U	0.0302	
Total PCBs	0.1	1	**4.97**	D	0.0178	U	0.0173	U	0.0214	U	0.0302	

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential	SB-6 (10'-12') 8/10/2018 Soil		SB-7 (0'-2') 8/10/2018 Soil		SB-7 (10'-12') 8/10/2018 Soil		SB-8 (0'-2') 8/10/2018 Soil		SB-8 (17'-19') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Volatile Organics, 8260 - Comprehensive	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
1,1,1,2-Tetrachloroethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,1,1-Trichloroethane	0.68	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,1,2,2-Tetrachloroethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,1,2-Trichloroethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,1-Dichloroethane	0.27	19	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,1-Dichloroethylene	0.33	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2,3-Trichlorobenzene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2,3-Trichloropropane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2,4-Trichlorobenzene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2,4-Trimethylbenzene	3.6	47	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2-Dibromo-3-chloropropane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2-Dibromoethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2-Dichlorobenzene	1.1	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2-Dichloroethane	0.02	2.3	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,2-Dichloropropane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,3,5-Trimethylbenzene	8.4	47	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,3-Dichlorobenzene	2.4	17	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,4-Dichlorobenzene	1.8	9.8	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
1,4-Dioxane	0.1	9.8	0.063	U	0.054	U	0.055	U	0.055	U	0.053	U
2-Butanone	0.12	100	0.021		0.0027	U	0.009		0.0027	U	0.0039	J
2-Hexanone	~	~	0.0031	U	0.0027	U	0.003	U	0.0027	U	0.0027	U
4-Methyl-2-pentanone	~	~	0.0031	U	0.0027	U	0.003	U	0.0027	U	0.0027	U
Acetone	0.05	100	**0.14**		0.036		**0.099**		0.019		0.027	
Acrolein	~	~	0.0063	U	0.0054	U	0.0055	U	0.0055	U	0.0053	U
Acrylonitrile	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Benzene	0.06	2.9	0.0031	U	0.0027	U	0.0029	J	0.0027	U	0.0027	U
Bromochloromethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Bromodichloromethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Bromoform	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Bromomethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Carbon disulfide	~	~	0.0031	U	0.0027	U	0.0039	J	0.0027	U	0.0027	U
Carbon tetrachloride	0.76	1.4	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Chlorobenzene	1.1	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Chloroethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Chloroform	0.37	10	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Chloromethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
cis-1,2-Dichloroethylene	0.25	59	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
cis-1,3-Dichloropropylene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Cyclohexane	~	~	0.0031	U	0.0027	U	0.023		0.0027	U	0.0027	U
Dibromochloromethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Dibromomethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Dichlorodifluoromethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Ethyl Benzene	1	30	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Hexachlorobutadiene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	SB-6 (10'-12') 8/10/2018 Soil		SB-7 (0'-2') 8/10/2018 Soil		SB-7 (10'-12') 8/10/2018 Soil		SB-8 (0'-2') 8/10/2018 Soil		SB-8 (17'-19') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Isopropylbenzene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Methyl acetate	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Methyl tert-butyl ether (MTBE)	0.93	62	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Methylcyclohexane	~	~	0.0031	U	0.0027	U	0.058		0.0027	U	0.0027	U
Methylene chloride	0.05	51	0.0063	U	0.0054	U	0.0055	U	0.0079	J	0.0053	U
n-Butylbenzene	12	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
n-Propylbenzene	3.9	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
o-Xylene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
p- & m- Xylenes	~	~	0.0063	U	0.0054	U	0.0055	U	0.0055	U	0.0053	U
p-Isopropyltoluene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
sec-Butylbenzene	11	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Styrene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
tert-Butyl alcohol (TBA)	~	~	0.01		0.0065		0.01		0.0027	U	0.0027	U
tert-Butylbenzene	5.9	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Tetrachloroethylene	1.3	5.5	0.0031	U	0.0027	U	0.0027	U	0.014		0.012	
Toluene	0.7	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
trans-1,2-Dichloroethylene	0.19	100	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
trans-1,3-Dichloropropylene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
trans-1,4-dichloro-2-butene	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Trichloroethylene	0.47	10	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Trichlorofluoromethane	~	~	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Vinyl Chloride	0.02	0.21	0.0031	U	0.0027	U	0.0027	U	0.0027	U	0.0027	U
Xylenes, Total	0.26	100	0.0094	U	0.0082	U	0.0082	U	0.0082	U	0.0080	U
Semi-Volatiles, 8270 - Comprehensive	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			2		20		2		2		2	
1,1-Biphenyl	~	~	0.0526	U	0.0588	JD	0.0457	U	0.0457	U	0.0444	U
1,2,4,5-Tetrachlorobenzene	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
1,2,4-Trichlorobenzene	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
1,2-Dichlorobenzene	1.1	100	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
1,2-Diphenylhydrazine (as Azobenzene)	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
1,3-Dichlorobenzene	2.4	17	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
1,4-Dichlorobenzene	1.8	9.8	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2,3,4,6-Tetrachlorophenol	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
2,4,5-Trichlorophenol	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2,4,6-Trichlorophenol	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2,4-Dichlorophenol	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2,4-Dimethylphenol	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2,4-Dinitrophenol	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
2,4-Dinitrotoluene	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2,6-Dinitrotoluene	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2-Chloronaphthalene	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2-Chlorophenol	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2-Methylnaphthalene	~	~	0.0526	U	0.139	D	0.0457	U	0.0457	U	0.0444	U
2-Methylphenol	0.33	100	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
2-Nitroaniline	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
2-Nitrophenol	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
3- & 4-Methylphenols	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential	SB-6 (10'-12') 8/10/2018 Soil		SB-7 (0'-2') 8/10/2018 Soil		SB-7 (10'-12') 8/10/2018 Soil		SB-8 (0'-2') 8/10/2018 Soil		SB-8 (17'-19') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
3,3-Dichlorobenzidine	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
3-Nitroaniline	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
4,6-Dinitro-2-methylphenol	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
4-Bromophenyl phenyl ether	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
4-Chloro-3-methylphenol	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
4-Chloroaniline	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
4-Chlorophenyl phenyl ether	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
4-Nitroaniline	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
4-Nitrophenol	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
Acenaphthene	20	100	0.0526	U	1.340	D	0.0998	D	0.0457	U	0.0481	JD
Acenaphthylene	100	100	0.0526	U	0.100	D	0.0685	JD	0.144	D	0.0444	U
Acetophenone	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Aniline	~	~	0.210	U	0.182	U	0.182	U	0.183	U	0.177	U
Anthracene	100	100	0.0526	U	3.220	D	0.299	D	0.174	D	0.166	D
Atrazine	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Benzaldehyde	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Benzidine	~	~	0.210	U	0.182	U	0.182	U	0.183	U	0.177	U
Benzo(a)anthracene	1	1	0.143	D	**5.77**	D	**1.1**	D	1	D	0.395	D
Benzo(a)pyrene	1	1	0.165	D	**5.64**	D	**1.32**	D	**1.11**	D	0.377	D
Benzo(b)fluoranthene	1	1	0.139	D	**4.48**	D	0.924	D	0.876	D	0.291	D
Benzo(g,h,i)perylene	100	100	0.104	JD	2.890	D	0.653	D	0.543	D	0.189	D
Benzo(k)fluoranthene	0.8	1	0.153	D	**4.59**	D	**0.928**	D	**0.918**	D	0.31	D
Benzoic acid	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Benzyl alcohol	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Benzyl butyl phthalate	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Bis(2-chloroethoxy)methane	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Bis(2-chloroethyl)ether	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Bis(2-chloroisopropyl)ether	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Bis(2-ethylhexyl)phthalate	~	~	0.225	D	0.0455	U	0.263	D	0.0457	U	0.273	D
Caprolactam	~	~	0.105	U	0.0908	U	0.0911	U	0.0912	U	0.0885	U
Carbazole	~	~	0.0526	U	1.190	D	0.0457	U	0.0457	U	0.0444	U
Chrysene	1	1	0.16	D	**6.09**	D	**1.21**	D	0.982	D	0.413	D
Dibenzo(a,h)anthracene	0.33	0.33	0.0526	U	**1.09**	D	0.216	D	0.215	D	0.0637	JD
Dibenzofuran	7	14	0.0526	U	0.576	D	0.0457	U	0.0457	U	0.0444	U
Diethyl phthalate	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Dimethyl phthalate	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Di-n-butyl phthalate	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Di-n-octyl phthalate	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Fluoranthene	100	100	0.328	D	14.600	D	1.91	D	1.65	D	0.726	D
Fluorene	30	100	0.0526	U	1.200	D	0.0845	JD	0.0457	U	0.0502	JD
Hexachlorobenzene	0.33	0.33	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Hexachlorobutadiene	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Hexachlorocyclopentadiene	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Hexachloroethane	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.0880	JD	**2.84**	D	**0.538**	D	**0.532**	D	0.16	D
Isophorone	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Naphthalene	12	100	0.0526	U	0.370	D	0.0457	U	0.0457	U	0.0444	U

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential	SB-6 (10'-12') 8/10/2018 Soil		SB-7 (0'-2') 8/10/2018 Soil		SB-7 (10'-12') 8/10/2018 Soil		SB-8 (0'-2') 8/10/2018 Soil		SB-8 (17'-19') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Nitrobenzene	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
N-Nitrosodimethylamine	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
N-nitroso-di-n-propylamine	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
N-Nitrosodiphenylamine	~	~	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Pentachlorophenol	0.8	2.4	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Phenanthrene	100	100	0.238	D	12.500	D	1.15	D	0.351	D	0.675	D
Phenol	0.33	100	0.0526	U	0.0455	U	0.0457	U	0.0457	U	0.0444	U
Pyrene	100	100	0.286	D	12.400	D	2.26	D	1.56	D	0.786	D
Pesticides, 8081 target list	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			5		5		5		5		5	
4,4'-DDD	0.0033	2.6	0.00207	U	0.00179	U	0.00179	U	**0.0591**	D	0.00175	U
4,4'-DDE	0.0033	1.8	0.00207	U	0.00241	D	0.00179	U	**0.0562**	D	0.00175	U
4,4'-DDT	0.0033	1.7	0.00207	U	**0.0114**	D	0.00179	U	**0.179**	D	0.00248	D
Aldrin	0.005	0.019	0.00207	U	0.00179	U	0.00179	U	0.00376	D	0.00175	U
alpha-BHC	0.02	0.097	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
alpha-Chlordane	0.094	0.91	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
beta-BHC	0.036	0.072	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Chlordane, total	~	~	0.0415	U	0.0358	U	0.0358	U	0.036	U	0.0349	U
delta-BHC	0.04	100	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Dieldrin	0.005	0.039	0.00207	U	0.00381	D	0.00179	U	0.0018	U	0.00175	U
Endosulfan I	2.4	4.8	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Endosulfan II	2.4	4.8	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Endosulfan sulfate	2.4	4.8	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Endrin	0.014	2.2	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00328	D
Endrin aldehyde	~	~	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Endrin ketone	~	~	0.00207	U	0.00763	D	0.00179	U	0.0018	U	0.00175	U
gamma-BHC (Lindane)	0.1	0.28	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
gamma-Chlordane	~	~	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Heptachlor	0.042	0.42	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Heptachlor epoxide	~	~	0.00207	U	0.00179	U	0.00179	U	0.0018	U	0.00175	U
Methoxychlor	~	~	0.0104	U	0.00895	U	0.00896	U	0.00901	U	0.00873	U
Toxaphene	~	~	0.105	U	0.0906	U	0.0907	U	0.0911	U	0.0884	U
Metals, Target Analyte	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
Aluminum	~	~	23,400	B	8,210	B	7,370	B	11,700	B	12,200	B
Antimony	~	~	4.710		1.770		4.44		1.84		2.940	
Arsenic	13	16	7.070		6.330		6.39		6.07		13	
Barium	350	350	**879**		179		104		166		194	
Beryllium	7.2	14	0.126	U	0.109	U	0.109	U	0.11	U	0.106	U
Cadmium	2.5	2.5	1.080		0.574		0.642		0.71		**5.02**	
Calcium	~	~	16,700		23,200		50,400		24,000		35,800	
Chromium	~	~	58.1		19		21.1		21.3		27.8	
Cobalt	~	~	26.4		8.52		7.21		15.6		13.6	
Copper	50	270	43.9		**103**		**98.6**		39.4		**81.2**	
Iron	~	~	45,400		19,600		22,800		18,400		29,000	
Lead	63	400	**92.2**		**358**		**338**		**225**		**273**	
Magnesium	~	~	14,100		5,600		5,110		7,260		7,230	

Table 1. Soil Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential	SB-6 (10'-12') 8/10/2018 Soil		SB-7 (0'-2') 8/10/2018 Soil		SB-7 (10'-12') 8/10/2018 Soil		SB-8 (0'-2') 8/10/2018 Soil		SB-8 (17'-19') 8/10/2018 Soil	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Manganese	1600	2000	650		299		351		834		393	
Nickel	30	140	**47.2**		20.9		17.9		25.500		27.6	
Potassium	~	~	15,000		2,010		1,620		2,740		4,510	
Selenium	3.9	36	1.26	U	1.09	U	1.09	U	1.1	U	1.060	U
Silver	2	36	0.629	U	0.545	U	0.546	U	0.548	U	0.531	U
Sodium	~	~	424	B	572	B	462	B	268	B	435	B
Thallium	~	~	1.260	U	1.09	U	1.09	U	1.1	U	1.06	U
Vanadium	~	~	73.3		26.4		21.1		26.7		31.2	
Zinc	109	2200	**232**		**253**		**210**		**554**		**2,110**	
Mercury by 7473	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
Mercury	0.18	0.81	0.0860		**0.694**		**0.583**		**1.71**		**0.78**	
Total Solids			%		%		%		%		%	
Dilution Factor			1		1		1		1		1	
% Solids	~	~	79.5		91.8		91.5		91.2		94.2	
Polychlorinated Biphenyls (PCB)	mg/Kg	mg/Kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Dilution Factor			1		1		1		1		1	
Aroclor 1016	~	~	0.0209	U	0.0181	U	0.0181	U	0.0182	U	0.0176	U
Aroclor 1221	~	~	0.0209	U	0.0181	U	0.0181	U	0.0182	U	0.0176	U
Aroclor 1232	~	~	0.0209	U	0.0181	U	0.0181	U	0.0182	U	0.0176	U
Aroclor 1242	~	~	0.0209	U	0.0181	U	0.0181	U	0.0182	U	0.0176	U
Aroclor 1248	~	~	0.0209	U	0.0181	U	0.0181	U	0.0182	U	0.0176	U
Aroclor 1254	~	~	0.0209	U	0.0181	U	0.0181	U	0.571		0.0176	U
Aroclor 1260	~	~	0.0209	U	0.109		0.0181	U	0.387		0.0176	U
Total PCBs	0.1	1	0.0209	U	**0.109**		0.0181	U	**0.958**		0.0176	U

NOTES:
mg/Kg = milligrams per kilogram
Any Regulatory Exceedences are bold and shaded.

Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
U=analyte not detected at or above the level indicated
B=analyte found in the analysis batch blank

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

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

Table 2. Groundwater Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC TOGS Standards and Guidance Values - GA	SB-2 (GW) 8/10/2018 Water		SB-5 (GW) 8/10/2018 Water		Trip Blank 8/10/2018 Water	
Compound		Result	Q			Result	Q
Volatile Organics, 8260 - Comprehensive	µg/L	µg/L		ug/L		µg/L	
Dilution Factor		10		1		1	
1,1,1,2-Tetrachloroethane	5	1	U	0.2	U	0.2	U
1,1,1-Trichloroethane	5	1	U	0.2	U	0.2	U
1,1,2,2-Tetrachloroethane	5	1	U	0.2	U	0.2	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	1	U	0.2	U	0.2	U
1,1,2-Trichloroethane	1	1	U	0.2	U	0.2	U
1,1-Dichloroethane	5	1	U	0.2	U	0.2	U
1,1-Dichloroethylene	5	1	U	0.2	U	0.2	U
1,2,3-Trichlorobenzene	5	1	U	0.2	U	0.2	U
1,2,3-Trichloropropane	0.04	1	U	0.2	U	0.2	U
1,2,4-Trichlorobenzene	5	1	U	0.2	U	0.2	U
1,2,4-Trimethylbenzene	5	**1,200**	D	3		0.2	U
1,2-Dibromo-3-chloropropane	0.04	1	U	0.2	U	0.2	U
1,2-Dibromoethane	0.0006	1	U	0.2	U	0.2	U
1,2-Dichlorobenzene	3	1	U	0.2	U	0.2	U
1,2-Dichloroethane	0.6	1	U	0.2	U	0.2	U
1,2-Dichloropropane	1	1	U	0.2	U	0.2	U
1,3,5-Trimethylbenzene	5	**340**	D	1.2		0.2	U
1,3-Dichlorobenzene	3	1	U	0.2	U	0.2	U
1,4-Dichlorobenzene	3	1	U	0.2	U	0.2	U
1,4-Dioxane	~	200	U	40	U	40	U
2-Butanone	50	1	U	0.2	U	0.2	U
2-Hexanone	50	1	U	0.2	U	0.2	U
4-Methyl-2-pentanone	~	1	U	0.2	U	0.2	U
Acetone	50	5	U	1	U	1	U
Acrolein	~	1	U	0.2	U	0.2	U
Acrylonitrile	~	1	U	0.2	U	0.2	U
Benzene	1	1	U	0.2	U	0.2	U
Bromochloromethane	5	1	U	0.2	U	0.2	U
Bromodichloromethane	50	1	U	0.95		0.2	U
Bromoform	50	1	U	0.2	U	0.2	U
Bromomethane	5	1	U	0.2	U	0.2	U
Carbon disulfide	~	1	U	0.2	U	0.2	U
Carbon tetrachloride	5	1	U	0.2	U	0.2	U
Chlorobenzene	5	1	U	0.2	U	0.2	U
Chloroethane	5	1	U	0.2	U	0.2	U
Chloroform	7	**10**	D	**16**		0.2	U
Chloromethane	5	1	U	0.2	U	0.2	U
cis-1,2-Dichloroethylene	5	1	U	0.2	U	0.2	U
cis-1,3-Dichloropropylene	0.4	1	U	0.2	U	0.2	U
Cyclohexane	~	95	D	0.2	U	0.2	U
Dibromochloromethane	50	1	U	0.2	U	0.2	U
Dibromomethane	~	1	U	0.2	U	0.2	U
Dichlorodifluoromethane	5	1	U	0.2	U	0.2	U
Ethyl Benzene	5	1	U	0.2	U	0.2	U
Hexachlorobutadiene	0.5	1	U	0.2	U	0.2	U
Isopropylbenzene	5	**47**	D	0.2	U	0.2	U
Methyl acetate	~	1	U	0.2	U	0.2	U
Methyl tert-butyl ether (MTBE)	10	1	U	0.2	U	0.2	U
Methylcyclohexane	~	180	D	0.47	J	0.2	U
Methylene chloride	5	5	U	1	U	1	U
n-Butylbenzene	5	**43**	D	0.2	U	0.2	U
n-Propylbenzene	5	**110**	D	0.4	J	0.2	U
o-Xylene	5	1	U	0.2	U	0.2	U
p- & m- Xylenes	5	3.2	JD	0.5	U	0.5	U
p-Isopropyltoluene	5	**7.2**	D	0.2	U	0.2	U
sec-Butylbenzene	5	**12**	D	0.2	U	0.2	U
Styrene	5	1	U	0.2	U	0.2	U
tert-Butyl alcohol (TBA)	~	2.5	U	0.5	U	0.5	U
tert-Butylbenzene	5	1	U	0.2	U	0.2	U
Tetrachloroethylene	5	1	U	0.2	U	0.2	U
Toluene	5	1.6	JD	0.2	U	0.2	U
trans-1,2-Dichloroethylene	5	1	U	0.2	U	0.2	U
trans-1,3-Dichloropropylene	0.4	1	U	0.2	U	0.2	U
trans-1,4-dichloro-2-butene	~	1	U	0.2	U	0.2	U
Trichloroethylene	5	1	U	0.2	U	0.2	U
Trichlorofluoromethane	5	1	U	0.2	U	0.2	U
Vinyl Chloride	2	1	U	0.2	U	0.2	U
Xylenes, Total	5	3.2	JD	0.6	U	0.6	U

Table 2. Groundwater Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC TOGS Standards and Guidance Values - GA	SB-2 (GW) 8/10/2018 Water		SB-5 (GW) 8/10/2018 Water		Trip Blank 8/10/2018 Water	
Compound		Result	Q			Result	Q
Semi-Volatiles, 8270 - Comprehensive	µg/L	µg/L		µg/L			
Dilution Factor		5		1			
1,1-Biphenyl	~	3.12	U	3.03	U	NA	
1,2,4,5-Tetrachlorobenzene	~	3.12	U	3.03	U	NA	
1,2,4-Trichlorobenzene	5	3.12	U	3.03	U	NA	
1,2-Dichlorobenzene	3	3.12	U	3.03	U	NA	
1,2-Diphenylhydrazine (as Azobenzene)	~	3.12	U	3.03	U	NA	
1,3-Dichlorobenzene	3	3.12	U	3.03	U	NA	
1,4-Dichlorobenzene	3	3.12	U	3.03	U	NA	
2,3,4,6-Tetrachlorophenol	~	3.12	U	3.03	U	NA	
2,4,5-Trichlorophenol	1	3.12	U	3.03	U	NA	
2,4,6-Trichlorophenol	1	3.12	U	3.03	U	NA	
2,4-Dichlorophenol	5	3.12	U	3.03	U	NA	
2,4-Dimethylphenol	50	3.12	U	3.03	U	NA	
2,4-Dinitrophenol	10	3.12	U	3.03	U	NA	
2,4-Dinitrotoluene	5	3.12	U	3.03	U	NA	
2,6-Dinitrotoluene	5	3.12	U	3.03	U	NA	
2-Chloronaphthalene	10	3.12	U	3.03	U	NA	
2-Chlorophenol	1	3.12	U	3.03	U	NA	
2-Methylnaphthalene	~	96.6	D	3.03	U	NA	
2-Methylphenol	1	3.12	U	3.03	U	NA	
2-Nitroaniline	5	3.12	U	3.03	U	NA	
2-Nitrophenol	1	3.12	U	3.03	U	NA	
3- & 4-Methylphenols	~	3.12	U	3.03	U	NA	
3,3-Dichlorobenzidine	5	3.12	U	3.03	U	NA	
3-Nitroaniline	5	3.12	U	3.03	U	NA	
4,6-Dinitro-2-methylphenol	~	3.12	U	3.03	U	NA	
4-Bromophenyl phenyl ether	~	3.12	U	3.03	U	NA	
4-Chloro-3-methylphenol	1	3.12	U	3.03	U	NA	
4-Chloroaniline	5	3.12	U	3.03	U	NA	
4-Chlorophenyl phenyl ether	~	3.12	U	3.03	U	NA	
4-Nitroaniline	5	3.12	U	3.03	U	NA	
4-Nitrophenol	1	3.12	U	3.03	U	NA	
Acenaphthene	20	0.1		0.0606	U	NA	
Acenaphthylene	~	0.0625	U	0.0606	U	NA	
Acetophenone	~	3.12	U	3.03	U	NA	
Aniline	5	3.12	U	3.03	U	NA	
Anthracene	50	0.0625	U	0.0606	U	NA	
Atrazine	~	0.625	U	0.606	U	NA	
Benzaldehyde	~	3.12	U	3.03	U	NA	
Benzidine	~	12.5	U	12.1	U	NA	
Benzo(a)anthracene	0.002	0.0625	U	0.0606	U	NA	
Benzo(a)pyrene	0.002	0.0625	U	0.0606	U	NA	
Benzo(b)fluoranthene	0.002	0.0625	U	0.0606	U	NA	
Benzo(g,h,i)perylene	~	0.0625	U	0.0606	U	NA	
Benzo(k)fluoranthene	0.002	0.0625	U	0.0606	U	NA	
Benzoic acid	~	31.2	U	30.3	U	NA	
Benzyl alcohol	~	3.12	U	3.03	U	NA	
Benzyl butyl phthalate	50	3.12	U	3.03	U	NA	
Bis(2-chloroethoxy)methane	5	3.12	U	3.03	U	NA	
Bis(2-chloroethyl)ether	1	3.12	U	3.03	U	NA	
Bis(2-chloroisopropyl)ether	5	3.12	U	3.03	U	NA	
Bis(2-ethylhexyl)phthalate	5	0.75		0.885		NA	
Caprolactam	~	3.12	U	3.03	U	NA	
Carbazole	~	3.12	U	3.03	U	NA	
Chrysene	0.002	0.0625	U	0.0606	U	NA	
Dibenzo(a,h)anthracene	~	0.0625	U	0.0606	U	NA	
Dibenzofuran	~	3.12	U	3.03	U	NA	
Diethyl phthalate	50	3.12	U	3.03	U	NA	
Dimethyl phthalate	50	3.12	U	3.03	U	NA	
Di-n-butyl phthalate	50	3.12	U	3.03	U	NA	
Di-n-octyl phthalate	50	3.12	U	3.03	U	NA	
Fluoranthene	50	0.0625	U	0.0606	U	NA	
Fluorene	50	0.1		0.0606	U	NA	
Hexachlorobenzene	0.04	0.025	U	0.0242	U	NA	
Hexachlorobutadiene	0.5	0.625	U	0.606	U	NA	
Hexachlorocyclopentadiene	5	3.12	U	3.03	U	NA	
Hexachloroethane	5	0.625	U	0.606	U	NA	
Indeno(1,2,3-cd)pyrene	0.002	0.0625	U	0.0606	U	NA	
Isophorone	50	3.12	U	3.03	U	NA	

Table 2. Groundwater Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC TOGS Standards and Guidance Values - GA	SB-2 (GW) 8/10/2018 Water		SB-5 (GW) 8/10/2018 Water		Trip Blank 8/10/2018 Water	
Compound		Result	Q			Result	Q
Naphthalene	10	**19.6**		0.145		NA	
Nitrobenzene	0.4	0.312	U	0.303	U	NA	
N-Nitrosodimethylamine	~	0.625	U	0.606	U	NA	
N-nitroso-di-n-propylamine	~	3.12	U	3.03	U	NA	
N-Nitrosodiphenylamine	50	3.12	U	3.03	U	NA	
Pentachlorophenol	1	0.312	U	0.303	U	NA	
Phenanthrene	50	0.15		0.0848		NA	
Phenol	1	3.12	U	3.03	U	NA	
Pyrene	50	0.0625	U	0.0606	U	NA	
Pesticides, 8081 target list	µg/L	µg/L		µg/L			
Dilution Factor		1		1			
4,4'-DDD	0.3	0.00457	U	0.00485	U	NA	
4,4'-DDE	0.2	0.00457	U	0.00485	U	NA	
4,4'-DDT	0.2	0.00457	U	0.00485	U	NA	
Aldrin	~	0.00457	U	0.00485	U	NA	
alpha-BHC	0.01	0.00457	U	0.00485	U	NA	
alpha-Chlordane	~	0.00457	U	0.00485	U	NA	
beta-BHC	0.04	0.00457	U	0.00485	U	NA	
Chlordane, total	0.05	0.0229	U	0.0242	U	NA	
delta-BHC	0.04	0.00457	U	0.00485	U	NA	
Dieldrin	0.004	0.00229	U	0.00242	U	NA	
Endosulfan I	~	0.00457	U	0.00485	U	NA	
Endosulfan II	~	0.00457	U	0.00485	U	NA	
Endosulfan sulfate	~	0.00457	U	0.00485	U	NA	
Endrin	~	0.00457	U	0.00485	U	NA	
Endrin aldehyde	5	0.0114	U	0.0121	U	NA	
Endrin ketone	5	0.0114	U	0.0121	U	NA	
gamma-BHC (Lindane)	0.05	0.00457	U	0.00485	U	NA	
gamma-Chlordane	~	0.0114	U	0.0121	U	NA	
Heptachlor	0.04	0.00457	U	0.00485	U	NA	
Heptachlor epoxide	0.03	0.00457	U	0.00485	U	NA	
Methoxychlor	35	0.00457	U	0.00485	U	NA	
Toxaphene	0.06	0.114	U	0.121	U	NA	
Metals, TAL, ICPMS	µg/L	µg/L					
Dilution Factor		1					
Aluminum	~	830		NT		NA	
Antimony	3	1	U	1	U	NA	
Arsenic	25	1	U	1	U	NA	
Barium	1000	68		76.4		NA	
Beryllium	3	0.3	U	0.3	U	NA	
Cadmium	5	0.746		0.5	U	NA	
Chromium	50	4.79		3.85		NA	
Cobalt	~	2.94		2.5		NA	
Copper	200	11		5.17		NA	
Iron	~	1730	B	1780	B	NA	
Lead	25	22.3		2.51		NA	
Manganese	300	111		259		NA	
Nickel	100	3.4		4.7		NA	
Selenium	10	1	U	1.1		NA	
Silver	50	1	U	1	U	NA	
Thallium	~	1	U	1	U	NA	
Vanadium	~	3.51		3.71		NA	
Zinc	2000	19.9		48.2		NA	
Metals, TAL, ICPMS Dissolved	µg/L	µg/L					
Dilution Factor		1					
Aluminum	~	396		322		NA	
Antimony	3	1	U	1	U	NA	
Arsenic	25	1	U	1	U	NA	
Barium	1000	68.7		62.9		NA	
Beryllium	3	0.3	U	0.3	U	NA	
Cadmium	5	0.76		0.5	U	NA	
Chromium	50	3.17		1.7		NA	
Cobalt	~	2.51		1.03		NA	
Copper	200	6.75		2.56		NA	
Iron	~	1290		712		NA	
Lead	25	19.6		1.55		NA	
Manganese	300	105		122		NA	
Nickel	100	2.42		2.07		NA	
Selenium	10	1	U	1	U	NA	
Silver	50	1	U	1	U	NA	

Table 2. Groundwater Analytical Results
Phase II Environmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID Sampling Date Client Matrix	NYSDEC TOGS Standards and Guidance Values - GA	SB-2 (GW) 8/10/2018 Water		SB-5 (GW) 8/10/2018 Water		Trip Blank 8/10/2018 Water	
Compound		Result	Q			Result	Q
Thallium	~	1	U	1	U	NA	
Vanadium	~	1.4		1		NA	
Zinc	2000	18.8		481		NA	
Mercury by 7473	µg/L	µg/L					
Dilution Factor		1					
Mercury	0.7	0.2	U	0.2	U	NA	
Mercury by 7473, Dissolved	µg/L	µg/L					
Dilution Factor		1					
Mercury	0.7	0.2	U	0.2	U	NA	
Polychlorinated Biphenyls (PCB)	µg/L	µg/L					
Dilution Factor		1					
Aroclor 1016	~	0.0571	U	0.0606	U	NA	
Aroclor 1221	~	0.0571	U	0.0606	U	NA	
Aroclor 1232	~	0.0571	U	0.0606	U	NA	
Aroclor 1242	~	0.0571	U	0.0606	U	NA	
Aroclor 1248	~	0.0571	U	0.0606	U	NA	
Aroclor 1254	~	0.0571	U	0.0606	U	NA	
Aroclor 1260	~	0.0571	U	0.0836		NA	
Total PCBs	0.09	0.0571	U	0.0836		NA	

NOTES:
µg/L = micrograms per liter
Any Regulatory Exceedences are bold and shaded

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

Table 3. Soil Vapor Analytical Results
Phase II Evironmental Subsurface Investigation
580-610 Gerard Avenue
Bronx, New York

Sample ID	**SV-1**	**SV-2**	**SV-3**	**SV-4**
Sampling Date	**8/10/2018**	**8/10/2018**	**8/10/2018**	**8/10/2018**
Client Matrix	**Soil Vapor**	**Soil Vapor**	**Soil Vapor**	**Soil Vapor**
Compound	Result	Result	Result	Result
Volatile Organics, EPA TO15 Full List	µg/m3	µg/m3	µg/m3	µg/m3
Dilution Factor	34.06	33.22	17.33	1.546
1,1,1,2-Tetrachloroethane	1.1U	1.1U	1.1U	1.1U
1,1,1-Trichloroethane	4.6D	0.84U	0.84U	0.84U
1,1,2,2-Tetrachloroethane	1.1U	1.1U	1.1U	1.1U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.2U	1.2U	1.2U	1.2U
1,1,2-Trichloroethane	0.84U	0.84U	0.84U	0.84U
1,1-Dichloroethane	0.63U	0.63U	0.63U	0.63U
1,1-Dichloroethylene	0.15U	0.15U	0.15U	0.15U
1,2,4-Trichlorobenzene	1.1U	1.1U	1.1U	1.1U
1,2,4-Trimethylbenzene	8.2D	10D	47D	12D
1,2-Dibromoethane	1.2U	1.2U	1.2U	1.2U
1,2-Dichlorobenzene	0.93U	0.93U	0.93U	0.93U
1,2-Dichloroethane	0.63U	0.63U	0.63U	0.63U
1,2-Dichloropropane	0.71U	0.71U	0.71U	0.71U
1,2-Dichlorotetrafluoroethane	1.1U	1.1U	1.1U	1.1U
1,3,5-Trimethylbenzene	0.76U	0.76U	25D	0.76U
1,3-Butadiene	4.5D	1U	7.8D	1U
1,3-Dichlorobenzene	7.7D	0.93U	0.93U	0.93U
1,3-Dichloropropane	0.71U	0.71U	0.71U	0.71U
1,4-Dichlorobenzene	0.93U	0.93U	0.93U	0.93U
1,4-Dioxane	1.1U	1.1U	1.1U	1.1U
2-Butanone	120D	26D	62D	25D
2-Hexanone	1.3U	1.3U	1.3U	1.3U
3-Chloropropene	2.4U	2.4U	2.4U	2.4U
4-Methyl-2-pentanone	8D	0.63U	8.8D	3.5D
Acetone	660D	150D	180D	110D
Acrylonitrile	0.34U	0.34U	0.34U	0.34U
Benzene	7.6D	4.4D	23D	3.1D
Benzyl chloride	0.8U	0.8U	0.8U	0.8U
Bromodichloromethane	1U	1U	1U	1U
Bromoform	1.6U	1.6U	1.6U	1.6U
Bromomethane	0.6U	0.6U	0.6U	0.6U
Carbon disulfide	0.48U	12D	31D	43D
Carbon tetrachloride	0.24U	0.24U	0.24U	0.24U
Chlorobenzene	0.71U	0.71U	0.71U	0.71U
Chloroethane	0.41U	0.41U	0.41U	0.41U
Chloroform	0.75U	0.75U	4.5D	0.75U
Chloromethane	0.32U	1.6D	3.3D	1.9D
cis-1,2-Dichloroethylene	0.15U	0.15U	0.15U	0.15U
cis-1,3-Dichloropropylene	0.7U	0.7U	0.7U	0.7U
Cyclohexane	7.2D	3.7D	46D	11D
Dibromochloromethane	1.3U	1.3U	1.3U	1.3U
Dichlorodifluoromethane	0.76U	0.76U	0.76U	0.76U
Ethyl acetate	1.1U	1.1U	1.1U	1.1U
Ethyl Benzene	7.5D	7.9D	22D	8.2D
Hexachlorobutadiene	1.6U	1.6U	1.6U	1.6U
Isopropanol	140D	67D	60D	47D
Methyl Methacrylate	0.63U	0.63U	0.63U	0.63U
Methyl tert-butyl ether (MTBE)	0.56U	0.56U	8.4D	0.56U
Methylene chloride	1.1U	37D	6.9D	6.2D
n-Heptane	21D	0.63U	120D	0.63U
n-Hexane	11D	8.4D	75D	11D
o-Xylene	11D	11D	28D	12D
p- & m- Xylenes	30D	31D	73D	32D
p-Ethyltoluene	0.76U	0.76U	29D	0.76U
Propylene	28D	15D	130DE	27D
Styrene	0.66U	0.66U	0.66U	0.66U
Tetrachloroethylene	56D	460D	44D	35D
Tetrahydrofuran	16D	5.6D	22D	6.2D
Toluene	26D	18D	47D	22D
trans-1,2-Dichloroethylene	0.61U	0.61U	0.61U	0.61U
trans-1,3-Dichloropropylene	0.7U	0.7U	0.7U	0.7U
Trichloroethylene	0.21U	0.21U	0.21U	0.21U
Trichlorofluoromethane (Freon 11)	0.87U	0.87U	0.87U	0.87U
Vinyl acetate	0.54U	0.54U	0.54U	0.54U
Vinyl bromide	0.68U	0.68U	0.68U	0.68U
Vinyl Chloride	0.099U	0.099U	0.099U	0.099U

NOTES:
µg/m3 = microgram per cubic meter

Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
U=analyte not detected at or above the level indicated
E=result is estimated and cannot be accurately reported due to levels encountered or interferences

APPENDIX C

Quality Assurance Project Plan/
Field Sampling Plan

Quality Assurance Project Plan/ Field Safety Plan

580-610 Gerard Avenue
Bronx, New York

March 5, 2021

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1. Introduction

Roux Environmental Engineering and Geology, D.P.C. (Roux), on behalf of SB Gerard Avenue, LLC (The Applicant), has prepared this Quality Assurance Project Plan/Field Sampling Plan (QAPP/FSP) to describe the measures that will be taken to ensure that the data generated during performance of the Remedial Investigation (RI) at the 580 Gerard Former Post Office Vehicle Repair Site located at 580-610 Gerard Avenue, Bronx, New York (Site) are of quality sufficient to meet project-specific data quality objectives (DQOs). This QAPP/FSP also includes field sampling procedures.

An application for the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) is being submitted concurrently with this Remedial Investigation Work Plan (RIWP), and a BCP Site number will be assigned to the Site upon acceptance of the Brownfields Cleanup Agreement (BCA). This QAPP/FSP was prepared in accordance with the guidance provided in NYSDEC Technical Guidance DER-10 Technical Guidance for Site Investigation and Remediation (DER-10), the NYSDEC BCP Guide, and the United States Environmental Protection Agency's (USEPA's) Guidance for the Data Quality Objectives Process (EPA QA/G 4).

1.1 Purpose

The QAPP/FSP describes in detail the field sampling and quality assurance/quality control (QA/QC) methods to be used during soil, soil vapor, and groundwater sampling tasks performed during the RI.

This QAPP/FSP provides guidelines and procedures to be followed by field personnel during performance of sampling during the RI. Information contained in this QAPP/FSP relates to:

- sampling objectives (Section 2);
- project organization (Section 3);
- sample media, sampling locations, analytical suites, sampling frequencies and analytical laboratory (Section 4);
- field sampling procedures (Section 5);
- sample handling, sample analysis, and quality assurance/quality control (Section 6); and
- site control procedures and decontamination (Section 7).

2. Sampling Objectives

The objective of the proposed sampling is to determine the nature and extent of the known contamination at the Site, to evaluate any additional areas of concern (AOCs), and to obtain a current representation of the environmental conditions at the Site. The proposed sampling locations are shown on Figure 1.

Previous environmental consultants have performed a Phase I ESA, preliminary Site reconnaissance and investigation and have identified AOCs. These areas will be further investigated as part of the RI. An inspection of the existing Site conditions will be conducted to determine final locations of soil borings, monitoring wells, and vapor sampling points based on actual field conditions.

Sampling procedures are discussed in Section 5 of this QAPP/FSP. A discussion of the DQOs and quality assurance/quality control is provided in Section 6.

3. Project Organization

A general and generic summary of the overall management structure and responsibilities of project team members are presented below. Professional profiles for the team are provided in Attachment 1.

Project Principal

Robert Kovacs, P.G. will serve as Project Principal. The Project Principal is responsible for defining project objectives and bears ultimate responsibility for the successful completion of the investigation.

Remedial Engineer

The Remedial Engineer for this project will be Mr. Brian Morrissey, P.E. The Remedial Engineer is a registered professional engineer licensed by the State of New York. The Remedial Engineer will have primary direct responsibility for implementation of the RI and future remedial program for the Site. The Remedial Engineer will certify in the Remedial Investigation Report (RIR) that the investigation activities were observed by qualified environmental professionals under her supervision as well as any other relevant provisions of ECL 27-1419 have been achieved in full conformance with the RI.

Project Manager

Jessica Lam of Roux will serve as Project Manager. The Project Manager will provide overall management for the implementation of the scope of work and will coordinate all field activities. The Project Manager is also responsible for data review/interpretation and report preparation.

Field Team Leader

The Field Team Leader will be Patrick Kilkelly. The Field Team Leader bears the responsibility for the successful execution of the field program. The Field Team Leader will direct the activities of the technical staff in the field, as well as all subcontractors. The Field Team Leader will also assist in the interpretation of data and in report preparation. The Field Team Leader reports to the Project Manager.

Laboratory Project Manager

Laboratory analysis will be completed by TestAmerica Laboratories, Inc. (TestAmerica) of Edison , New Jersey, NYSDOH Environmental Laboratory Accreditation Program (ELAP)-certified laboratories (11452). The Laboratory Project Manager is Melissa Haas. The Laboratory Project Manager is responsible for sample container preparation, sample custody in the laboratory, and completion of the required analysis through oversight of the laboratory staff. The Laboratory Project Manager will ensure that quality assurance procedures are followed and that an acceptable laboratory report is prepared and submitted. The Laboratory Project Manager reports to the Project Principal and Project Manager.

Quality Assurance Officer

Rachel Henke of Roux will serve as the Quality Assurance Officer (QAO) for this project. The QAO is responsible for conducting reviews, inspections, and audits to ensure that the data collection is conducted in accordance with the FSP and QAPP. The QAO's responsibilities range from ensuring effective field equipment decontamination procedures and proper sample collection to the review of all laboratory analytical data for completeness and usefulness. The QAO reports to the Project Manager and makes independent recommendations to the Field Team Leader.

4. Sample Media, Locations, Analytical Suites, and Frequency

The media to be sampled during the RI include soil, groundwater, and soil vapor. Sampling locations, analytical suites, and frequency may vary by medium. A discussion of the sampling schedule for each medium is provided below, while the assumed number of field samples to be collected for each medium, including quality control (QC) samples, is shown in Tables 1 and 2. Specifics regarding the collection of samples at each location and for each task are provided in Section 5 of this QAPP/FSP.

4.1 Soil Sampling

Soil samples are to be used to characterize the soil conditions for the AOCs at the Site, fill existing data gaps in vertical delineation of contamination, and to collect the data sufficient to define the nature and extent of impacted soils. Fifty-six soil samples from 14 soil borings will be collected in a manner consistent with this QAPP/FSP. As part of this RIWP, 14 soil borings are proposed to be installed at the locations shown in Figure 6 of the RIWP.

The summary table below provides details for the soil sampling locations that were previously completed by Roux, and additional borings that are proposed as part of this RIWP:

Locations	Sample Depth Intervals	Analyses (see notes below)	Rationale
RXSB-02, RXSB-04, RXSB-05, RXSB-07, RXSB-08, RXSB-10, RXSB-11, RXSB-13	0-16 ft bls:0-2, 4-6, 10-12, 14-16, and most impacted two-foot interval (if applicable) or unless bedrock or groundwater encountered	*Part 375/TCL + 30/TAL	Evaluate conditions beneath the Site building.
RXSB-01, RXSB-03, RXSB-06, RXSB-09, RXSB-12, RXSB-14	0-16 ft bls:0-2, 4-6, 10-12, 14-16, and most impacted two-foot interval (if applicable) or unless bedrock or groundwater is encountered.	*Part 375/TCL + 30/TAL	Evaluate conditions beneath the Site building. Co-located with the monitoring well sampling points MW-1 to MW-6.

Locations	Sample Depth Intervals	Analyses (see notes below)	Rationale
RXSB-01, RXSB-02, RXRB-03, RXSB-04, RXSB-05, RXSB-06, RXSB-07, RXSB-08, RXSB-09, RXSB-10, RXSB-11, RXSB-12, RXSB-13, RXSB-14	0-16 ft bls:0-2, 10-12, unless bedrock or groundwater is encountered.	**ECs	Evaluate **EC conditions across the Site.

* * Note: Part 375/TCL plus 30/ TAL (TCL + 30/TAL) includes:

- Part 375/TCL VOCs + 10 TICs;
- Part 375/TCL Base Neutral Acids (BNA)/ SVOCs + 20 TICs;
- Part 375/TCL Pesticides;
- Part 375/TCL Herbicides;
- Part 375/TCL PCBs;
- Part 375/TAL Metals (including hexavalent chromium); and
- Total Cyanide.

**Note: Emerging Contaminants (ECs) list includes 1,4-Dioxane and the 21 Per- and Polyfluoroalkyl Substances (PFAS) which include the 21 compounds listed in the NYSDEC July 2018 Groundwater Sampling for Emerging Contaminants Guidance (NYSDEC July 2018 Guidance) and the March 2019 Sampling for 1,4-Dioxane and PFAS Under DEC's Part 375 Remedial Programs (NYSDEC March 2019 Guidance). PFAS in soil and groundwater will be analyzed by USEPA Method 537 Modified and 1,4-Dioxane in groundwater will be analyzed by USEPA Method 8270D SIM and 1,4-Dioxane in soil will be analyzed by USEPA Method 8270D. The 21 PFAS are:

- Perfluorobutanesulfonic acid
- Perfluorohexanesulfonic acid
- Perfluoroheptanesulfonic acid
- Perfluorooctancessulfonic acid
- Perfluorodecanesulfonic acid
- Perfluorobutanoics acid
- Perfluoropentanoic acid
- Perfluorohexanoic acid
- Perfluoroheptanoic acid
- Perfluorooctanoic acid

- Perfluorononanoic acid
- Perfluorodecanoic acid
- Perfluoroundecanoic acid
- Perfluorododecanoic acid
- Perfluorotridecanoic acid
- Perfluorotetradecanoic acid
- 6:2 Fluorotelomer sulfonate
- 8:2 Fluorotelomer sulfonate
- Perfluroroctanesulfonamide
- N-methyl perfluorooctanesulfonamidoacetic acid
- N-ethyl perfluorooctanesulfonamidoacetic acid

If odor/ visual evidence of contamination or elevated photoionization detector (PID) readings are noted, additional samples will be collected from the interval that exhibits the highest contamination.

4.2 Groundwater Sampling

To characterize onsite groundwater flow and quality conditions, six permanent groundwater monitoring wells will be installed across the Site. Based on data from previous environmental investigations conducted by GEI, the average depth to groundwater is approximately 20-24 ft bls. The six permanent groundwater monitoring wells (MW-1 through MW-6) will be installed to a maximum depth of approximately 30 feet below land surface (ft bls). All monitoring wells will be installed with a ten-foot well screen bridging the water table (i.e., three feet of screen above the water table and seven feet of well screen below). The proposed permanent groundwater monitoring well locations are shown on Figure 6 of the RIWP and permanent monitoring well installation and groundwater sampling procedures are outlined below in Section 5.2.

Groundwater samples will be collected from the all monitoring wells and submitted for laboratory analysis for TCL + 30/TAL analysis (including filtered and unfiltered metals) and the emerging contaminants (ECs) 1,4-Dioxane and Per- and Polyfluoroalkyl Substances (PFAS), which include the 21 compounds listed in the NYSDEC February 2018 Groundwater Sampling for Emerging Contaminants Guidance (NYSDEC February 2018 Guidance, provided as Attachment 4). The TestAmerica Analytical Standard Operating Procedures (SOPs) for completing ECs analysis and reporting limits/method detection limits for EC compounds are included in Attachment 2. Field parameters (e.g., pH, dissolved oxygen, oxidation-reduction potential [ORP], etc.) will also be collected in the field using a water quality meter during purging prior to sample collection.

4.3 Soil Vapor Sampling

Seven soil vapor samples and three sub-slab vapor samples will be collected during the RI to evaluate soil vapor conditions at the Site. The proposed sub-slab and soil vapor sampling locations are shown on Figure 6 of the RIWP. All sub-slab and soil vapor samples will be collected in accordance with the October 2006 New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH Guidance) and June 2015 USEPA Soil Vapor Guidance.

The sub-slab vapor samples will be collected from points installed immediately below the concrete slab using a hammer drill and sealed at the surface of the concrete slab. The soil vapor samples will be collected from the target depth of 16 feet bls using a Geoprobe® direct-push rig. All sub-slab and soil vapor samples will be analyzed for VOCs using USEPA Method TO-15. Soil vapor point installation and soil vapor sampling procedures are outlined below is Section 5.3.

4.4 Method Detection Limits and Reporting Limits

For soil samples, the method detection limits (MDL) and reporting limits (RL) for all 21 PFAS compounds are as follows:

Analyte Description	RL	MDL
Perfluorobutanoic acid (PFBA)	0.500	0.190
Perfluoropentanoic acid (PFPeA)	0.200	0.0180
Perfluorohexanoic acid (PFHxA)	0.200	0.0240
Perfluoroheptanoic acid (PFHpA)	0.200	0.0230
Perfluorooctanoic acid (PFOA)	0.200	0.0140
Perfluorononanoic acid (PFNA)	0.200	0.0200
Perfluorodecanoic acid (PFDA)	0.200	0.0210
Perfluoroundecanoic acid (PFUnA)	0.200	0.0240
Perfluorododecanoic acid (PFDoA)	0.200	0.0150
Perfluorotridecanoic acid (PFTriA)	0.200	0.0130
Perfluorotetradecanoic acid (PFTeA)	0.200	0.0190
Perfluorobutanesulfonic acid (PFBS)	0.200	0.00880
Perfluorohexanesulfonic acid (PFHxS)	0.200	0.0150
Perfluoroheptanesulfonic acid (PFHpS)	0.200	0.0150
Perfluorooctanesulfonic acid (PFOS)	0.200	0.0670
Perfluorodecanesulfonic acid (PFDS)	0.200	0.0190
Perfluorooctanesulfonamide (PFOSA)	0.200	0.00880
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	0.0340
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	0.0300
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	2.00	0.0220
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	2.00	0.0290

For groundwater samples, the MDL and RL for all 21 PFAS compounds is as follows:

Analyte Description	RL	MDL
Perfluorobutanoic acid (PFBA)	5.00	1.13
Perfluoropentanoic acid (PFPeA)	2.00	1.08
Perfluorohexanoic acid (PFHxA)	2.00	0.830
Perfluoroheptanoic acid (PFHpA)	2.00	0.460
Perfluorooctanoic acid (PFOA)	2.00	0.980
Perfluorononanoic acid (PFNA)	2.00	0.580
Perfluorodecanoic acid (PFDA)	2.00	0.460
Perfluoroundecanoic acid (PFUnA)	2.00	0.730
Perfluorododecanoic acid (PFDoA)	2.00	0.460
Perfluorotridecanoic acid (PFTriA)	2.00	0.430
Perfluorotetradecanoic acid (PFTeA)	2.00	0.590
Perfluorobutanesulfonic acid (PFBS)	2.00	0.630
Perfluorohexanesulfonic acid (PFHxS)	2.00	0.670
Perfluoroheptanesulfonic acid (PFHpS)	2.00	0.390
Perfluorooctanesulfonic acid (PFOS)	2.00	0.870
Perfluorodecanesulfonic acid (PFDS)	2.00	0.480
Perfluorooctanesulfonamide (PFOSA)	2.00	0.570
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	5.00	0.790
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5.00	0.930
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	5.00	0.720
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	2.00	0.660

The MDL and RL for 1,4-Dioxane in soil samples are 0.0289 ug/L and 0.1 ug/L, respectively. The MDL and RL for 1,4-Dioxane in groundwater samples are 0.0160 ug/L and 0.2 ug/L, respectively.

The TestAmerica Analytical Standard Operating Procedures (SOPs) for completing ECs analysis and reporting limits/minimum detection limits for EC compounds are included in Attachment 2.

5. Field Sampling Procedures

This section provides a detailed discussion of the field procedures to be used during sampling of the various media being evaluated as part of the RI (i.e., soil, groundwater, and soil vapor). As discussed, the sample locations are shown on Figure 6 of the RIWP and additional information including intervals to be sampled and sample rationale is provided in the RIWP. Additional details regarding sampling procedures and protocols are described in Roux's relevant SOPs, which are provided in Attachment 3.

5.1 Soil Sampling and Permanent Monitoring Well Installation

Details for the collection of soil samples and the installation of permanent monitoring wells are provided below. Boreholes will be pre-cleared to five ft bls using non-intrusive methods (i.e. hand auger, vacuum technology, etc.) prior to advancement of soil borings to verify the absence of potential underground utilities. Should a utility or other feature be observed during pre-clearance activities, the sampling location will be relocated to no greater than ten feet away from the original proposed location. Should the sampling location need to be located at a distance greater than ten feet from the original proposed location due to access constraints, Roux will contact the NYSDEC case manager to confirm.

5.1.1 Soil Sampling

Soil borings will be advanced using a GeoProbe® Direct-Push drill rig. Samples of the soil profile will be collected continuously from land surfance to a maximum depth of approximately 16 ft bls, as shown in Table 1a of the RIWP.

The soil from each five foot interval will be observed for lithology and evidence of contamination (e.g., staining, odors, and/or visible free product) and placed immediately thereafter into large Zip-loc™ bags for ecording headspace using a PID. After a minimum of 15 minutes for equilibration with the headspace in the Zip-loc™ bag, each sample will be screened for organic vapors using a PID equipped with a 10.6 eV lamp. Samples for possible VOC analysis will be placed in a laboratory-supplied jar or encore sampler prior to screening, due to the potential for loss of VOCs through volatilization. Soil samples will be collected according to Table 1a of the RIWP. These samples will be placed in the laboratory-supplied containers and shipped to the laboratory under chain of custody procedures in accordance with Roux's SOPs in Attachment 3.

Soil samples will also be analyzed for the NYSDEC-required ECs in addition to the Part 375/TCL plus 30/ TAL list. Additional necessary precautions will be taken when sampling for ECs in the field including, but not limited to:

- Using the proper field clothing or personal protective equipment (i.e. no materials will contain Gore-Tex or Tyvek);
- Avoid using sampling equipment components/containers making contact with aluminum foil, low density polyethylene (LDPE), glass, or polytetrafluoroethylene materials;
- Following PFAS field sampling guidelines (i.e. using sampling materials made from high density polyethylene [HDPE], silicon, or stainless steel and avoid using equipment containing Teflon and using sharpies, permanent markers, adhesives, and waterproof/plastic clipboards and notebooks); and
- Utilizing regular ice for sample presevation and only Alconox or Liquinox for decontamination.

Following sample collection, boreholes will be backfilled with soil cuttings with a bentonite plug near the top and capped with concrete. Contaminated soil cuttings, if encountered, will be placed in sealed and labeled U.S. Department of Transportation (DOT) approved 55-gallon drums pending characterization and off-site disposal at a permitted facility.

5.1.2 Permanent Monitoring Well Installation

Following soil sampling activities, permanent monitoring wells will be installed bridging the water table and to a maximum depth of approximately 30 ft bls. Monitoring wells will be constructed of 1 inch inside diameter, Schedule 40 polyvinyl chloride (PVC) casing and, 0.020 inch slot, machined screen. Well screens will be 10 feet long, and will be installed with three feet above and seven feet below the water table. A sand pack will be placed around the well screen, extending two feet above the top of the screened zone.

5.2 Groundwater Sampling

Prior to sampling, depth to water will be measured at each newly installed permanent well using an electronic water level meter with an accuracy of +/ 0.01 feet. All wells will then be purged and sampled using a submersible pump or low-flow method, or an alternative method, depending on the observed depth to groundwater and logistical issues. Purging and sampling will be performed consistent with USEPA low-flow sampling requirements. Field parameters (i.e., pH, dissolved oxygen, ORP, etc. as described in the USEPA low-flow sampling requirements) will be collected using a water quality meter with flow-through cell until parameters stabilized before samples are collected. Samples will be analyzed for TCL + 30/TAL as shown on Table 2.

Monitoring wells will also be analyzed for the NYSDEC-required ECs in addition to the Part 375/TCL plus 30/ TAL list. Similarly to the collection of soil samples for RCs, additional necessary precautions will be taken when groundwater sampling for ECs in the field including, but not limited to:

- Using the proper field clothing or personal protective equipment (i.e. no materials will contain Gore-Tex or Tyvek);
- Avoid using Grundfos and bladder pumps and sampling equipment components/containers making contact with aluminum foil, low density polyethylene (LDPE), glass, or polytetrafluoroethylene materials;
- Following PFAS field sampling guidelines (i.e. using sampling materials made from high density polyethylene [HDPE], silicon, or stainless steel and avoid using equipment containing Teflon and using sharpies, permanent markers, adhesives, and waterproof/plastic clipboards and notebooks); and
- Utilizing regular ice for sample presevation and only Alconox or Liquinox for decontamination.

All groundwater samples will be collected and placed in the laboratory-supplied containers and shipped to the laboratory under chain of custody procedures in accordance with Roux's field sampling SOPs included as Attachment 3.

5.3 Soil Vapor Sampling

Seven soil vapor samples and three sub-slab vapor samples will be collected during the RI to evaluate soil vapor conditions at the Site. The sub-slab vapor samples will be collected from points installed immediately below the concrete slab using a hammer drill and sealed at the surface of the concrete slab. The soil vapor samples will be collected from the target depth of 16 feet bls using a Geoprobe® direct-push rig. For the

soil vapor points installed to 16 feet bls, new Teflon® lined tubing will be attached to an expendable soil vapor sampling point with a 6-inch stainless steel screen inside the rods, to prevent infiltration of ambient air. The soil vapor points will be backfilled with #2 Morie sand to approximately one foot above the screen. The remainder of the borehole will be backfilled with a cement/bentonite slurry to grade.

Prior to sample collection, the Teflon®-lined tubing will be purged of approximately two volumes of the tubing using a vacuum pump set at a rate of 0.2 liters per minute. A tracer gas (i.e., helium) will be used to enrich the atmosphere in the immediate vicinity of the sampling location in order to test the borehole seal and verify that ambient air is not being drawn into the sample in accordance with the procedures outlined in the NYSDOH Guidance. Following purging and verification with the tracer gas, the tubing will be connected to the pre-cleaned (batch-certified) laboratory supplied six-liter summa canister. All soil vapor samples will be collected using the canisters with regulators calibrated to collect samples over an 2-hour period and analyzed using USEPA Method TO-15 for VOCs.

6. Sample Handling and Analysis

To ensure quality data acquisition and collection of representative samples, there are selective procedures to minimize sample degradation or contamination. These include procedures for preservation of the samples, as well as sample packaging, shipping procedures, and QA/QC.

6.1 Field Sample Handling

A discussion of the proposed number and types of samples to be collected during each task, as well as the analyses to be performed, can be found in Section 4.0 of this QAPP/FSP. The types of containers, volumes, and preservation techniques for the aforementioned testing parameters are presented in Table 3.

6.2 Sample Custody Documentation

The purpose of documenting sample custody is to ensure that the integrity and handling of the samples is not subject to question. Sample custody will be maintained from the point of sampling through the analysis (and return of unused sample portion, if applicable).

Each individual collecting samples is personally responsible for the care and custody of the samples. All sample labels should be pre printed or filled out using waterproof ink. The technical staff will review all field activities with the Field Team Leader to determine whether proper custody procedures were followed during the field work and to decide if additional samples are required.

All samples being shipped offsite for analysis must be accompanied by a properly completed chain of custody form. The sample numbers will be listed on the chain of custody form. When transferring the possession of samples, individuals relinquishing and receiving will sign, date, and note the time on the record. This record documents transfer of custody of samples from the sampler to another person, to/from a secure storage area, and to the laboratory.

Samples will be packaged for shipment and dispatched to the appropriate laboratory for analysis with a separate signed custody record enclosed in each sample box or cooler. Shipping containers will be locked and/or secured with strapping tape in at least two locations for shipment to the designated laboratory.

6.3 Sample Shipment

If sample shipment is necessary, sample packaging and shipping procedures are based upon USEPA specifications, as well as DOT regulations. The procedures vary according to potential sample analytes, concentration, and matrix and are designed to provide optimum protection for the samples and the public. Sample packaging and shipment must be performed using the general outline described below.

All samples will be shipped within 24 hours of collection and will be preserved appropriately from the time of sample collection. A description of the sample packing and shipping procedures is presented below:

1. Prepare cooler(s) for shipment:
    - tape drain(s) of cooler shut;
    - affix “This Side Up” arrow labels and “Fragile” labels on each cooler; and
    - place mailing label with laboratory address on top of cooler(s).
2. Arrange sample containers in groups by sample number.

3. Ensure that all bottle labels are completed correctly. Place clear tape over bottle labels to prevent moisture accumulation from causing the label to peel off.
4. Arrange containers in front of assigned coolers.
5. Place packaging material approximately at the bottom of the cooler to act as a cushion for the sample containers.
6. Arrange containers in the cooler so that they are not in contact with the cooler or other samples.
7. Fill remaining spaces with packaging material.
8. Ensure all containers are firmly packed in packaging material.
9. If ice is required to preserve the samples, ice cubes should be repackaged in Zip-lock™ bags and placed on top of the packaging material.
10. Sign chain of custody form (or obtain signature) and indicate the time and date it was relinquished to courier as appropriate.
11. Separate chain of custody forms. Seal proper copies within a large Zip-loc™ bag and tape to inside cover of cooler. Retain copies of all forms.
12. Close lid and latch.
13. Secure each cooler using custody seals.
14. Tape cooler shut on both ends.
15. Relinquish to overnight delivery service as appropriate. Retain air bill receipt for project records. (Note: All samples will be shipped for "NEXT A.M." delivery).

6.4 Quality Assurance/Quality Control

The primary intended use for the RI data is to characterize Site conditions and determine if remediation needs to be undertaken at the Site. The primary DQO of the soil, groundwater, and soil vapor programs, therefore, is that data be accurate and precise, and hence representative of the actual Site conditions. Accuracy refers to the ability of the laboratory to obtain a true value (i.e., compared to a standard) and is assessed through the use of laboratory quality control (QC) samples, including laboratory control samples and matrix spike samples, as well as through the use of surrogates, which are compounds not typically found in the environment that are injected into the samples prior to analysis. Precision refers to the ability to replicate a value and is assessed through both field and laboratory duplicate samples.

Sensitivity is also a critical issue in generating representative data. Laboratory equipment must be of sufficient sensitivity to detect target compounds and analytes at levels below NYSDEC standards and guidelines whenever possible. Equipment sensitivity can be decreased by field or laboratory contamination of samples, and by sample matrix effects. Assessment of instrument sensitivity is performed through the analysis of reagent blanks, near-detection-limit standards, and response factors. Potential field and/or laboratory contamination is assessed through use of trip blanks, method blanks, and equipment rinse blanks (also called "field blanks"). Field blanks for PFAS will be collected at a minimum frequency of one per day. A laboratory SOP for analysis of PFAS is included in Attachment 2.

Table 1 lists the requirements for field and laboratory QC samples that will be analyzed to assess data accuracy and precision, as well as to determine if equipment sensitivity has been compromised. Table 2 lists the number/type of field and QA/QC samples that will be collected during the RI. Table 3 lists the preservation, holding times and sample container information.

All RI “assessment” analyses (i.e., TCL plus 30/ TAL and TO-15) will be performed in accordance with the NYSDEC Analytical Services Protocol (ASP), using USEPA SW 846 methods.

All laboratory data are to be reported in NYSDEC ASP Category B deliverables and will be delivered to NYSDEC in electronic data deliverable (EDD) format as described on NYSDEC’s website (http://www.dec.ny.gov/chemical/62440.html). A Data Usability Summary Report (DUSR) will be prepared meeting the requirements in Section 2.2(a)1.ii and Appendix 2B of DER-10 for all data packages generated for the RI. The third-party data validator to prepare the DUSR will be Data Validation Services (DVS). Judy Harry of DVS resume and qualifications are included in Attachment 1.

7. Site Control Procedures

Site control procedures, including decontamination and waste handling and disposal, are discussed below. Site control procedures have been developed to minimize both the risk of exposure to contamination and the spread of contamination during field activities at the Site. All personnel who come into designated work areas, including contractors and observers, will be required to adhere strictly to the conditions imposed herein and to the provisions of a Site-Specific Health and Safety Plan (HASP). The HASP is included as Appendix D to the RIWP.

7.1 Decontamination

In an attempt to avoid the spread of contamination, all drilling and sampling equipment must be decontaminated at a reasonable frequency in a properly designed and located decontamination area. Detailed procedures for the decontamination of field and sampling equipment are included in Roux's SOPs for the Decontamination of Field Equipment located in Attachment 3. The location of the decontamination area will be determined prior to the start of field operations. The decontamination area will be constructed to ensure that all wash water generated during decontamination can be collected and containerized for proper disposal. As mentioned above, only Alconox will be used during decontamination procedures when groundwater sampling is underway.

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

7.2 Waste Handling and Disposal

All waste materials (drill cuttings, decontamination water, etc.) generated during the RI will be consolidated, and stored in appropriate labeled bulk containers (drums, etc.), and temporarily staged at an investigation derived waste storage area onsite. Roux will then coordinate waste characterization and disposal by appropriate means.

TABLES

1. Field and Laboratory QC Summary
2. Remedial Investigation Sampling Summary
3. Preservation, Holding Times, and Sample Containers

Table 1. Field and Laboratory QC Summary

QC Check Type	Minimum Frequency	Use
Field QC		
Duplicate	1 per matrix per 20 samples or SDG*	Precision
Trip Blank	1 per VOC cooler	Sensitivity
Field Blank	1 per matrix per 20 samples, 1 per day when sampling for PFAS	Sensitivity
Equipment Blank	1 per day when sampling for PFAS	Sensitivity
Laboratory QC		
Laboratory Control Sample	1 per matrix per SDG	Accuracy
Matrix Spike/Matrix Spike Duplicate/Matrix Duplicate*	1 per matrix per SDG	Accuracy/Precision
Surrogate Spike	All organics samples	Accuracy
Laboratory Duplicate	1 per matrix per SDG	Precision
Method Blank	1 per matrix per SDG	Sensitivity

* SDG - Sample Delivery Group - Assumes a single extraction or preparation
** Provided to lab by field sampling personnel
PFAS - Per- and Polyfluoroalkyl Substances

Table 2. Remedial Investigation Sampling Summary

Sample Medium	Target Analytes	Field Samples	Replicates[1]	Trip Blanks[2]	Field Blanks[1]	Equipment Blanks[3]	Matrix Spikes[1]	Spike Duplicates[1]	Total No. of Samples
Soil	TCL VOCs +10	70	4	5	4	-	4	4	91
	TCL VOCs	70	4	5	4	-	4	4	91
	TCL SVOCs +20	70	4	-	4	-	4	4	86
	TCL SVOCs	70	4	-	4	-	4	4	86
	TCL Pesticides	70	4	-	4	-	4	4	86
	TCL Herbicides	70	4	-	4	-	4	4	86
	TCL PCBs	70	4	-	4	-	4	4	86
	TAL Metals	70	4	-	4	-	4	4	86
	Total Cyanide	70	4	-	4	-	4	4	86
	PFAS	70	4	-	4	5	4	4	91
	1,4-Dioxane	70	4	-	4	-	4	4	86
	Total Cyanide	70	4	-	4	-	4	4	86
	Hexavalent Chromium	70	4	-	4	-	4	4	86
Groundwater	TCL VOCs +10	6	1	1	1	-	1	1	11
	TCL SVOCs +20	6	1	1	1	-	1	1	11
	TCL Pesticides	6	1	-	1	-	1	1	10
	TCL Herbicides	6	1	-	1	-	1	1	10
	TCL PCBs	6	1	-	1	-	1	1	10
	TAL Metals*	6	1	-	1	-	1	1	10
	PFAS	6	1	-	1	1	1	1	11
	1,4-Dioxane	6	1	-	1	-	1	1	10
	Total Cyanide	6	1	-	1	-	1	1	10
	Hexavalent Chromium	6	1	-	1	-	1	1	10
Soil Vapor	TO-15 VOCs	10	-	-	-	-	-	-	10

Totals are estimated based on scope of work as written, actual sample quantities may vary based on field conditions. QA/QC sample quantities will be adjusted accordingly.

[1] Based on 1 per 20 samples or 1 per Sample Delivery Group (3 days max)

[2] Based on 1 cooler per day

[3] Based on 1 per day PFAS sampling occurs

TCL - USEPA Contract Laboratory Program Target Compound List
USEPA - United States Environmental Protection Agency
VOCs - Volatile Organic Compounds
SVOCs - Semivolatile Organic Compounds
PCBs - Polychlorinated Biphenyls
EPH - Extractable Petroleum Hydrocarbons
RCRA - Resource Conservation and Recovery Act
TCLP - Toxicity Characteristic Leaching Procedure
PFAS - Per- and Polyfluoroalkyl Substances
TAL - USEPA Contract Laboratory Program Target Analyte List
*All groundwater samples will be analyzed for both filtered and unfiltered metals.

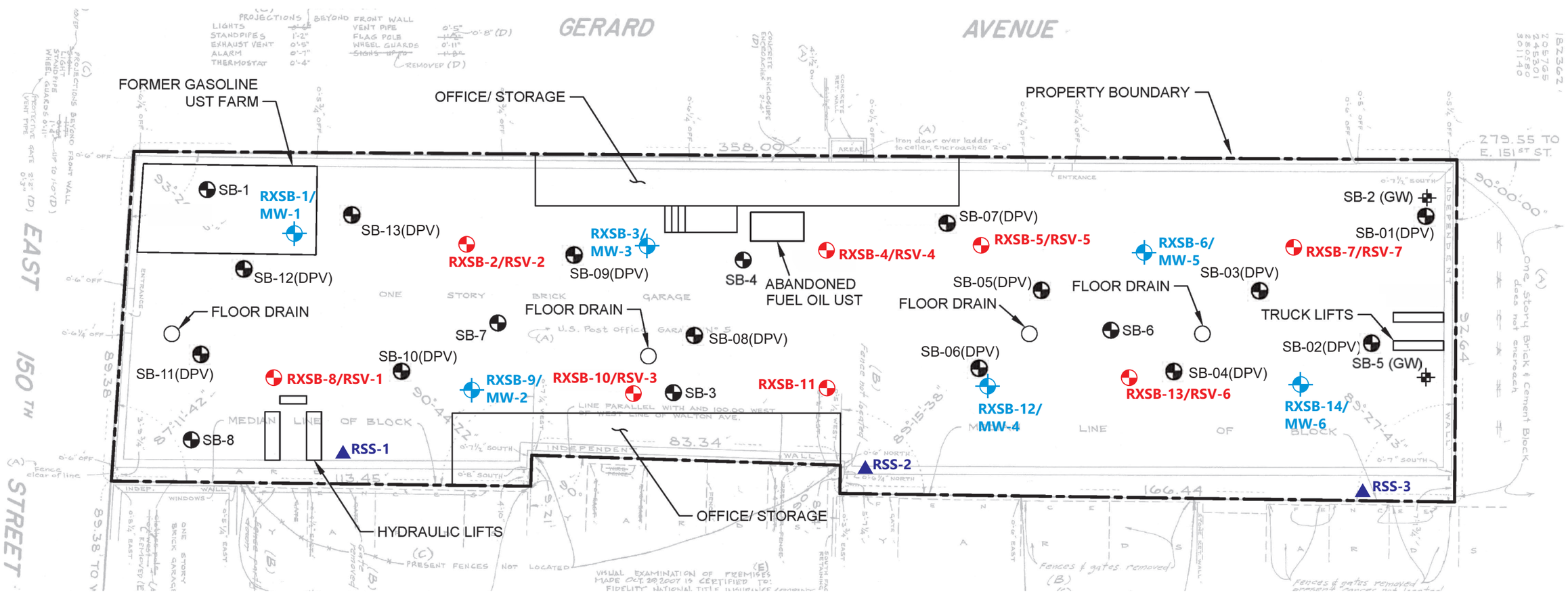
Table 3. Preservation, Holding Times and Sample Containers

Analysis	Matrix	Bottle Type	Preservation(a)	Holding Time(b)
TAL Metals (total & dissolved)	Soil	8 oz wide mouth glass, teflon lined cap	Cool to 4°C	180 days, Hg 28 days
SW-846 6020B/7471B	Water	250 mL plastic, teflon lined cap	Nitric acid	
Hexavalent Chromium\Trivalent Chromium(calculatec	Soil	2 oz wide mouth glass, teflon lined cap	None	30 days to extract, 7 days to analysis
SW-846 7196A\6010C	Water	500 mL Plastic		24 hours from sample collection
Total Cyanide	Soil	4 oz wide mouth glass, teflon lined cap	Cool to 4°C	14 days from sample collection
SW-846 9012B	Water	250 mL Plastic	NaOH	14 days from sample collection
1,4-Dioxane	Soil	8 oz wide mouth glass, teflon lined cap	Cool to 4°C	14 days from sample collection
SW-846 8270D GS/MS SIM/Isotope Dilution	Water	2 x 500 mL amber wide mouth glass	Cool to 4°C	7 days from sample collection
Per- and Polyfluoroalkyl Substances (PFAS)	Soil	8 oz HDPE container (non teflon lined)	Cool to 4°C	28 days from sample collection
EPA 537(Modified)	Water	2 - 250 mL HDPE	Trizma	14 days from sample collection
Volatile Organic Compounds (VOCs)	Air	6 liter Summa Canister for 8-hr sampling	None	14 days from sample collection
TO-15	Air	1 liter Summa Canister for 2-hr sampling	None	14 days from sample collection
Target Compound List (TCL)				
TCL Volatile Organic Compounds (VOCs) + 10 TICS	Soil	Encore	Cool to 4°C	24 hours from sample collection
SW-846 8260C	Water	40mL voa vial, teflon lined cap	Hydrochloric Acid	14 days from sample collection
TCL Semivolatile Organic Compounds (SVOCs) +20	Soil	8 oz wide mouth glass, teflon lined cap	Cool to 4°C	14 days to extract, 40 days to analysis
SW-846 8270D	Water	1 liter amber glass, teflon lined cap		7 days to extract, 40 days to analysis
TCL Pesticides	Soil	8 oz wide mouth glass, teflon lined cap	Cool to 4°C	14 days to extract, 40 days to analysis
SW-846 8081B	Water	1 liter amber glass, teflon lined cap		7 days to extract, 40 days to analysis
TCL Herbicides	Soil	8 oz wide mouth glass, teflon lined cap	Cool to 4°C	14 days to extract, 40 days to analysis
SW-846 8151A	Water	1 liter amber glass, teflon lined cap		7 days to extract, 40 days to analysis
TCL Polychlorinated biphenyls (PCBs)	Soil	8 oz wide mouth glass, teflon lined cap	Cool to 4°C	14 days to extract, 40 days to analysis
SW-846 8082A	Water	1 liter amber glass, teflon lined cap		7 days to extract, 40 days to analysis

(a) All soil and groundwater samples to be preserved in ice during collection and transport
(b) Days from date of sample collection.
TAL - Target Analyte List
TCL - USEPA Contract Laboratory Program Target Compound List
Gas chromatography-mass spectrometry (GC/MS) in selected ion monitoring (SIM) mode

FIGURES

1. Proposed RI Sample Locations



LEGEND

RXSB-1	PROPOSED RI SOIL BORING AND SOIL VAPOR SAMPLE LOCATION AND DESIGNATION
RSB-12/ MW-4	PROPOSED RI MONITORING WELL / SOIL BORING LOCATION AND DESIGNATION
RSS-1	PROPOSED RI SUB-SLAB VAPOR SAMPLE LOCATION AND DESIGNATION
SB-1	PREVIOUS SOIL BORING SAMPLE LOCATION AND DESIGNATION
SV-1	PREVIOUS SOIL VAPOR SAMPLE LOCATION AND DESIGNATION
SB-2 (GW)	PREVIOUS SOIL/GROUNDWATER SAMPLE LOCATION AND DESIGNATION

NOTES

1. SOIL BORINGS WITH THE DESIGNATIONS SB-1 THROUGH SB-8 WERE COLLECTED BY GEI CONSULTANTS, INC. P.C.
2. SOIL BORINGS WITH DESIGNATIONS SB-1(DPV) THROUGH SB-13(DPV) WERE COLLECTED BY DPV CONSULTANTS, INC. IN DECEMBER 2019 - JANUARY 2020. NOTE THAT ROUX ADDED THE SUFFIX "DPV" TO THESE SOIL BORING DESIGNATIONS TO DIFFERENTIATE THEM FROM THE SAMPLES PREVIOUSLY COLLECTED BY GEI WITH SIMILAR DESIGNATIONS.

SOURCE:

1. PLAN BASED ON MAP PREPARED BY EARL B. LOVELL - S.P. BELCHER, INC

Title:

PROPOSED RI SAMPLE LOCATIONS

580 GERARD AVENUE
BRONX, NEW YORK

Prepared for:

SB GERARD AVENUE, LLC

ROUX

Compiled by: R.K.	Date: 07MAY90	FIGURE
Prepared by: B.H.C..	Scale: AS SHOWN	1
Project Mgr: R.K.	Project: 3523.0001Y000	
File: 3523.0001Y100.01.CDR		

\3523Y0001Y100\3523.0001Y100.01.CDR

ATTACHMENTS

1. Professional Profiles
2. Laboratory's Standard Operating Procedures
3. Roux's Standard Operating Procedures
4. NYSDEC PFAS Sampling Guidance

ATTACHMENT 1

Professional Profiles

Robert Kovacs, LSRP, P.G.
Principal Scientist

TECHNICAL SPECIALTIES
Design, implementation and management of Environmental Site Assessments, Remedial Investigations, and Remedial Actions at Brownfield Redevelopment sites and Industrial sites; Development of regulatory strategy and regulatory agency negotiations; Characterization, Decontamination and Decommissioning of Industrial Manufacturing Facilities.

EXPERIENCE SUMMARY
Twenty years of experience: Principal, Senior, Project, Staff and Staff Assistant Environmental Scientist at Roux Associates, Inc., Islandia, New York; Field Manager/Staff Scientist at Long Island Analytical Laboratories, Holbrook, New York.

CREDENTIALS AND TRAINING
B.A., Biological Sciences, University of Delaware, Newark, Delaware, 1999
Licensed Site Remediation Professional, New Jersey (License No. 627589)
New York State Professional Geologist (License No. 000437)
OSHA 40-Hour Health and Safety Course (29 CFR 1910.120)
OSHA 8-Hour Health and Safety Refresher Course (29 CFR 1910.120)
NJDEP UST Certification Program-Subsurface Evaluator (License No. 239024)

PUBLICATIONS
Significant Acceleration of Time Frame to Closure via Transition from Long-Term Biological Treatment to ZVI/EVO Injection, Kovacs, R., Senh, S., Silverstein, W., Moss, D., Kelley, R., Proceedings of the Tenth International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Abstract and Poster, 2016.

KEY PROJECTS
- *Amtrak Sunnyside Yard State Superfund Site* – Project Principal for multiple projects to support investigation and remediation activities at this State Superfund site. Mr. Kovacs was responsible for overseeing activates in all six Operable Units (OUs), including unsaturated and saturated soil, groundwater, separate-phase hydrocarbon, soil vapor and on-site sewer system. His responsibilities on these projects included characterizing subsurface conditions, including soil (collected hundreds of soil samples to characterize the 130+ acre active railyard), as well as characterizing a 250,000-gallon PCB-contaminated separate-phase hydrocarbon plume. Additionally, he was responsible for overseeing the design and implementation of remediation activities, including soil excavation and offsite disposal, removal and abandonment of USTs ranging in sizes up to 17,000 gallons, demolition of contaminated buildings and infrastructure, and installation and operation of a dual phase high vacuum extraction (DPVE) system to recover PCB-contaminated separate-phase hydrocarbon through a network of over 40 recovery wells. Due to the highly volatile nature of the separate-phase hydrocarbon and the urban setting of this site, extensive emissions and odor engineering controls were used when excavating and managing soil and product. Additionally, extensive Community Air Monitoring was completed during all phases of work. He was also responsible for managing environmental activities associated with construction of the new, state of the art Next Generation High Speed Rail facilities to support Amtrak's Acela train service, and construction associated with MTA's massive East Side Access project on and beneath Sunnyside Yard.

- *Pharmaceutical Manufacturing Facility – Brooklyn, NY* – Project Manager/Project Principal for environmental work associated with the seven-block former manufacturing plant. This Site included a former 700,000 square foot manufacturing plant, as well as several other former industrial facilities with operations starting as far back as the 1850's. Responsibilities include the design and completion of multiple phases of subsurface investigations to characterize soil and groundwater quality, as well as soil vapor. Contaminants included hydrocarbons, benzene, PCBs, and heavy metals, including lead, mercury, and arsenic. Work included development and preparation of investigation and remediation work plans, coordination and management of field investigations, including the installation of shallow and deep monitoring wells and soil borings using sonic drilling methods, completion of a geophysical survey, collection of groundwater samples, and management of remediation activities. Remediation activities included soil excavation, UST removals, and the installation of a soil vapor extraction and air sparging system. Work was completed under several different regulatory agencies, including NYSDEC and NYCOER. Also provided presentations to school authorities, including the NYC DOE, to communicate the progress of the project and to educate administrators regarding the Site's environmental issues.

- *Chlorinated Solvent Remediation – Parsippany-Troy Hills, NJ*– Project Principal for the Remedial Investigation and Remedial Action implementation associated with a former dry cleaner release located in Parsippany-Troy

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Hills, New Jersey. We were retained by one of the largest real estate developers in the United States to complete this project. Soil, groundwater and subsurface vapor were impacted with chlorinated VOCs as a result of the former dry cleaner operations. Responsibilities included the design and management of a Supplemental RI that included the installation of soil borings, monitoring wells and the completion of groundwater vertical profiling. Additionally, Mr. Kovacs was responsible for the design, implementation and management of an extensive groundwater remediation injection program in which approximately 200,000 pounds of Zero-Valent Iron (ZVI) and 2,500 gallons of Emulsified Vegetable Oil (EVO) were injected into the subsurface using pneumatic fracturing. Initial post-treatment results show over 95 percent reduction in concentrations of chlorinated VOCs in groundwater. Furthermore, he was responsible for the design, installation and operation of a SVE system to address impacted vadose zone soil.

- *Chlorinated Solvent Release – Bernardsville, NJ* – Project Principal for the investigation of an extensive chlorinated solvent plume emanating from a former dry cleaner site. Contamination from this site has migrated far off site in groundwater, and has potentially impacted nearby surface water. Work includes installation of soil borings and monitoring wells to characterize contamination in soil, perched water, groundwater in the deep unconsolidated aquifer zone, as well as groundwater in the weathered bedrock matrix and bedrock matrix. Further, contamination from the Site is co-mingled with contamination from other solvent release sites, complicating NJDEP negotiations and investigation/remedial requirements. Mr. Kovacs serves as the LSRP of record for this project.

- *UST Spill Site – Brooklyn, NY* – Project Principal for the investigation of a Spill in Williamsburg, Brooklyn, New York. M. Kovacs lead the project team in successfully demonstrating to NYSDEC's Spills Group that impacts to a deep groundwater zone beneath the client's site were a result of offsite contamination migrating onsite from a nearby active gasoline station (not a result of the client's former industrial operations). Impacts included the presence of several feet of free-product in a deep groundwater zone. Furthermore, he was successful in getting the client's Spill Case closed, saving the client from additional investigation activities, and what will likely be a multi-million-dollar remediation to address free-product beneath a semi- confining clay zone.

- *Waterfront Redevelopment – Greenpoint, NY* – Project Principal for a large project located on the waterfront in Greenpoint, New York. This 110,000-square foot site will be redeveloped into a multiple 40-story towers. This project has included the completion of a Phase I and Phase II ESA, as well as negotiation with NYSDEC regarding entry to the NYSDEC BCP. As part of this work, soil borings, monitoring wells, piezometers, and soil vapor monitoring points were installed, and hydrogeologic cross sections were prepared. Additionally, as part of this project, the tidal influence of the East River on site groundwater was studied, and a benthic sediment investigation was conducted in the East River.

- *Former Vehicle Maintenance Facility – Parlin, NJ* – Project Manager for the removal of (2) waste oil USTs, a subsurface oil water separator, piping, and remediation of associated petroleum contaminated soil at a former vehicle maintenance facility in Parlin, New Jersey. Roux was retained by one of the largest real estate developers in the United States to complete this project. This remediation was completed to allow for a new, national tenant to occupy this retail space. As part of this this work it was determined that a historic release occurred from the OWS, triggering a RI for petroleum-related VOCs and chlorinated VOCs in soil. Mr. Kovacs was also responsible for the development and implementation of the Remedial Action for the Site, which included excavation and off-site soil disposal. SESOIL modeling was also utilized to demonstrate groundwater (approximately 100 feet deep) was not impacted by the shallow soil contamination. As part of this project, he took a lead role in preparing the SI Report, RI Report, RAW, RAR, Receptor Evaluation, and the Unrestricted Use RAO.

- *NJ Transit Active Bus Facility* – Project Principal for the completion of a RI at an active bus garage located in Fairview, New Jersey for a major transit agency. Responsibilities included the delineation of a free-product plume, characterization of soil and groundwater quality, report preparation, and correspondence with the NJDEP. Moreover, Mr. Kovacs was responsible for implementing free-product Interim Remedial Measure efforts. Currently,

he is finalizing the RI report for the Site, and managing the Remedial Action design, and supporting the LSRP in meeting all NJDEP administrative requirements.

- *Residential Hi-Rise Development – Manhattan, NY* – Project Principal for a redevelopment site in mid-town Manhattan working for a private developer who is building a mixed-use retail/commercial tower. Work included a Phase I ESA and Phase II ESA. As part of the Phase II shallow bedrock was identified in portions of the site, and an LNAPL plume was identified in the overburden soils. Responsibilities included bedrock evaluation, LNAPL recovery utilizing multiple different techniques. Responsibilities also included construction support, health and safety support, management of all soil excavated and transported off site, and the design of a Sub-Slab Depressurization System (SSDS) to mitigate vapors in the vadose zone beneath the new building structure that were emanating from groundwater.

- *Ship Dry Dock Facility – Hoboken, NJ* – Project Manager for the completion of a Preliminary Assessment and Site Investigation (PA/SI) at an active ship dry dock facility in Hoboken, New Jersey. Responsible for the coordination and management of field investigation activities, which included soil, groundwater, and sediment sampling, as well as the preparation of a PA and SI report. This work was completed on behalf of a potential buyer of the property who planned to redevelop this site into a New York City ferry terminal.

- *BICC Cables – Yonkers, NY* – Project Manager for the investigation and remediation of the interior and subsurface soils of a former cable manufacturing facility located in Yonkers, New York to be redeveloped into a movie studio. Responsibilities included the completion of several large-scale investigations, including the collection of wipe, soil and building material samples to characterize PCB and lead impacts at this 200,000+ square foot facility Additional tasks included oversight of the remediation of interior surfaces using several different methods for the removal of PCBs and lead, and remediation of a sub-surface drainage trench and process water system. Further work included the preparation of a Remedial Investigation report and a Feasibility Study report for submittal to the NYSDEC.

- *Amtrak Electrical Substation – Rahway, NJ* – Project Manager for the RI and RA design and implementation at an active electrical substation in Rahway, New Jersey for a national passenger railroad agency. Responsibilities included completing an RI to delineate PCBs in soil, and the management of free-product recovery programs. Further, Mr. Kovacs was responsible for managing the RA at the Site, which included soil excavation and offsite disposal, and free-product recovery. As part of this project, he supported the Site LSRP and took a lead role in preparing the Supplemental RI Report, RAW, RAR, Receptor Evaluation, and the Unrestricted Use RAO. Additionally, he assisted the LSRP in satisfying all NJDEP administrative requirements, including preparation of forms, public notifications, and submittal of fees.

- *Echo Bay Redevelopment – New Rochelle, NY* – Project Manager for the completion of Phase I and Phase II Environmental Site Assessment activities associated with a proposed mixed-use redevelopment located in Westchester, New York. Work included management of subsurface investigation activities to characterize soil conditions, and working closely with client's architects and construction contractors to integrate the proposed site remediation into the project development plan (including evaluating multiple potential disposal scenarios). Site contaminants included hydrocarbons (including free-product plume from former USTs), and historic fill constituents.

- *Former Dry Cleaner – Ramsey, NJ* – Project manager for the SI, RI, and vapor intrusion investigation at a former dry cleaner in Ramsey, New Jersey. Responsibilities included managing and coordinating field investigations, preparing remedial cost estimates for redevelopment, and preparation of reports and satisfying NJDEP Administration requirements. This work is being done to support redevelopment of the Site for a large, national fitness center tenant.

- *Former Service Station* – Project Manager for the implementation of a groundwater remediation injection program to address petroleum contamination at a former service station located in Paterson, New Jersey for a major transit agency. Responsibilities included implementation of a PA and SI to further investigate chlorinated VOCs at this Site. As part of this project, Mr. Kovacs took a lead role in preparing reports and

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the Permit-by-Rule Request, as well as assisting in satisfying all NJDEP administrative requirements.

- *NJ Transit Active Railyard* – Project manager for the investigation of a diesel release at an active railyard in. Roxbury Township, New Jersey. This release was caused by a faulty underground pipe located in the locomotive fueling area. The diesel release resulted in a free-product plume, groundwater impacts, and impacts to a subsurface drainage culvert and a nearby lake. Responsibilities included the development and coordination of a field investigation program, coordination of routine gauging and free-product recovery events, correspondence with NJDEP, and preparation of a baseline ecological evaluation. Additionally, Mr. Kovacs supported the Site LSRP in meeting all NJDEP administrative requirements.

FACILITY DEMOLITION/DECOMMISSIONING

- *Former Pharmaceutical Manufacturing Facility Decommissioning – Brooklyn, NY* – Project Manager for the interior decontamination and decommissioning of a 700,000+ square foot former manufacturing facility located in Brooklyn, New York to allow for redevelopment of the building for commercial, retail, and light industrial use, and use as a movie studio, and for local food businesses. This redevelopment has earned significant positive press, as it is considered a highly beneficial reuse for the community. This project included the development of decontamination and decommissioning work plan, technical support of bidding process, and full time onsite engineering support of the entire project.

  Decontamination and decommissioning activities included removal/cleaning of hundreds of air handling units and dust collector units impacted with manufacturing dusts and residues, as well as thousands of feet of intricate vacuum, ventilation and dust collection lines. This project also included the removal of concrete impacted with metals, PCBs, and/or VOCs, selective interior demolition, and decontamination of former laboratory, milling, compounding, blending, and packaging areas, as well as asbestos abatement. At the conclusion of this project, a Final Report was prepared, documenting in detail the extensive work completed and that the work plan objectives were achieved.

- *Former Pharmaceutical Manufacturing Facility Demolition* – Project Manager for the demolition of two former manufacturing buildings in Brooklyn, New York. Both buildings were impacted with hazardous levels of PCBs, mercury and lead. Responsibilities included in situ waste characterization of building materials, oversight of hazardous waste removal, completion of waste manifests, and full-time Community Air Monitoring during all demolition activities. Additionally, Roux Associates performed daily inspections and monitoring to ensure the protection of a nearby elementary school and prepared a completion report at the conclusion of the project.

- *PCB Building Material Remediation* – Project Manager for the investigation and TSCA remediation of PCB containing paint in a former manufacturing area. This location (approximately 2,000 square feet in area, and two stories in height) was found to contain PCBs in the paint matrix at concentrations as high as 10,000 parts per million. The underlying building material (brick, concrete, and terra cotta) was also found to be impacted with PCBs from the paint. Responsibilities included preparation of a Self-Implementing Notification and Alternative Decontamination Methods and Verification Sampling Work Plan to remediate the PCBs under the TSCA regulatory framework. This project also included providing field oversight of the PCB remediation, completion of the extensive verification sampling program of the underlying porous building material, and collection of confirmation air samples and confirmation wipe samples outside of the exclusion zone to confirm proper function of all critical barriers. Following the successful completion of the project, a Final Report was prepared and submitted to USEPA documenting the entire project in detail.

EXPERT/INSURANCE LITIGATION SUPPORT

- Consulting Fact Witness for an insurance litigation claim where insured was seeking to be reimbursed for over $15mm of previous environmental investigation/remediation costs. My responsibilities included a formal deposition and testifying in US District Federal Court – Eastern District of New York. Case resulted in favorable ruling for our client.

- Consulting expert for a PRP to the Gowanus Canal Superfund Site, Brooklyn, New York. Evaluated all RI data, performed fate and transport analysis, and evaluation of historic site operations to support facility *de minimis* status.

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ROUX

PROFESSIONAL PROFILE

Brian P. Morrissey, P.E., BCEE

Principal Engineer

TECHNICAL SPECIALTIES

- Development, design and implementation of soil and groundwater remediation systems.
- Optimization of ongoing remedial operations.
- Development of project and regulatory closure strategies.
- Management, support, and oversight of large inter-disciplinary teams for site remediation.
- Cold eye design review and evaluation of process safety.
- Preparation of feasibility studies, engineer's reports, design drawings, specifications, contract documents, permit applications, cost estimates, operations and maintenance plans and construction management for the following:
  - In situ groundwater remedial technologies
  - Sub-slab depressurization systems
  - Industrial and sanitary wastewater treatment systems
  - Floating product recovery systems
  - Ground water pumping and treatment facilities
  - Water supply, treatment, and distribution
  - Underground storage tank (UST) systems
  - Containment systems
  - Air sparging, soil vapor extraction and vapor collection and treatment systems
  - Building decontamination and decommissioning
  - Landfill cap design and permitting
  - Hazardous waste soils removal, transportation, and disposal

EXPERIENCE SUMMARY

Thirty-five years of experience working in many areas of the environmental industry under a variety of regulatory programs such as Federal and State Superfund, New Jersey ECRA/ISRA, NYSDEC Voluntary Cleanup, Petroleum and Chemical Bulk Storage, and NYC Brownfields.

Principal Engineer and Office Manager at Roux Environmental Engineering and Geology, D.P.C.; Senior Engineer and Senior Project Manager at ERM.

CREDENTIALS

B.E., Civil Engineering, Cooper Union, 1980

M.S., Civil and Environmental Engineering, NYU Tandon School of Engineering (former Polytechnic), 1985

Professional Engineer: New York (1986), New Jersey (2003), and Virginia (2010)

OSHA 40-hour Health and Safety Training

ExxonMobil Loss Prevention System certified

NYCOER Gold Certified Professional

Board Certified Environmental Engineer (BCEE) of the American Academy of Environmental Engineers and Scientists - Specialty Certification in Hazardous Waste Management, 1995

PROFESSIONAL AFFILIATIONS

Water Environment Federation

KEY PROJECTS

- Principal Engineer and Project Manager for the remediation and monitoring of over 100 vehicle fueling sites in New York City with UST petroleum releases. The remediation systems at the various sites include multi-phase extraction (MPE), soil vapor extraction (SVE), air sparging, groundwater recovery and treatment, and automated product-only recovery systems. Priorities on this multi-year contract included expediting remedial progress, increasing the effectiveness of operating systems, achieving NFA status, and reducing NYC's overall program costs. The work included conducting soil vapor studies at 9 sites to assess vapor intrusion concerns. Roux Associates also implemented in situ injections at 14 sites to cost-effectively achieve site closure. The in situ injections utilized chemical oxidation and bioremediation products including sodium percarbonate, oxygen generating compounds, hydrogen peroxide, petroleum-degrading bacteria, and nutrient/enzyme complexes.

- Principal Engineer for design upgrades and expansion of the groundwater depression and separate phase product recovery systems at former petroleum refinery in Brooklyn, New York. The site encompasses one of the nation's largest petroleum releases (18 million gallons). Key components included: the installation of 10 remote dual-pump free-phase product recovery wells, including wellhouse/control components and petroleum storage facilities; the construction of extensive underground utilities to connect remote recovery wells with two existing treatment systems; and modifications to existing groundwater treatment facilities to add auxiliary equipment to optimize treatment performance and system runtime. The work also involved the integration of control between the two separate groundwater treatment systems and all associated recovery wells into a single SCADA platform to improve operability. Also, redesigned building with new mezzanine and equipment layout to improve flow of the process treatment train.

- Principal Engineer and P.E. of Record for several Brownfields projects. Responsibilities include development of Remedial Action Work Plan (RAWP), Community Air Monitoring Program (CAMP) and engineering certification of all remediation activities related to management of contaminated soils and clean fill. Also manage designs of remedial elements including sub-slab depressurization systems (SSDS), vapor barriers and waterproofing, stormwater management, and wastewater treatment and disposal.

- Principal Engineer for evaluation and cost estimates of remedial options at a former electronics manufacturing plant in Taiwan. Prepared Pilot Study Plan and presentation for Taiwanese regulatory officials on use of the in situ technologies of enhanced reductive dechlorination and chemical oxidation.

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Brian P. Morrissey, P.E., BCEE
Principal Engineer

- Principal Engineer for the design of a vapor mitigation system for a 1.5 million square foot warehouse (former aircraft engine manufacturing plant) in New Jersey. The system design includes eight 40-HP blowers and over 600 vapor extraction wells to mitigate elevated levels of chlorinated solvents and petroleum compounds in the subsurface from migrating into the building.
- Principal Engineer for conducting detailed evaluation of problematic groundwater treatment system in Rensselaer, New York. Primary constituents of concern include heavy metals, chlorinated solvents, and BTEX compounds. Developed performance testing program, diagnosed causes of problems and presented several recommendations with cost estimates for upgrading systems and improving personnel health and safety. Prepared engineering report with key recommendations that included modifying equipment layout, injecting iron deposition and calcium scale control agents into water stream, facilitating carbon change-outs and upgrading the system instrumentation and controls.
- Principal Engineer for remediation of former petroleum terminal in Oceanside, New York. Managed preparation of Remedial Action Plan, community air monitoring plan, detailed design drawings, bid documents and O&M Plan. Conducted discussions/negotiations with NYSDEC and managed the annual budget for capital and operating expenses.
- Principal Engineer for the design of a soil vapor extraction (SVE) system to address elevated concentrations of methane and petroleum hydrocarbons in the shallow subsurface beneath three Operable Units of the project area. The major components of the design included the installation of 21 SVE wells and associated piping and instrumentation, the construction of a new treatment building to house the SVE treatment equipment, as well as office space to support the remediation project; and the installation of a thermal/catalytic oxidation system to treat the soil vapor extracted from the SVE wells, and also the air stripping and aeration process streams from a nearby groundwater treatment facility. The SVE treatment system was designed to accept up to 4,000 cfm of process air to meet the discharge requirements of 6 NYCRR, Part 201 and NYSDEC DAR-1 guidelines. All activities were performed under the oversight of the NYSDEC and in compliance with a strict regulatory milestone schedule.
- Senior Manager for Remedial Design and Construction Oversight at federal Superfund site in Elmira, New York. The 33-acre site included several areas of concern where the soil and groundwater had been contaminated by several types of hazardous wastes. Managed preparation of design submittals to USEPA Region II in accordance with CERCLA guidelines. The soil/sediment remediation design included requirements for materials handling, dewatering and disposal. PCB wastes were required to be segregated and disposed of at a TSCA-permitted facility. The design required stabilization of certain wastes and the installation of a RCRA cap. The design included measures for control and treatment of dewatered fluids and stormwater during construction Groundwater remediation system includes 12 recovery wells, filtration units and two air strippers.
- Principal Engineer and P.E. of Record for the design and construction of a storm drainage and sanitary sewer project located in the area of a former petroleum terminal in Brooklyn, New York. Worked on several design modifications to obtain NYCDEP approvals. Work included construction of approximately 1,600 linear feet of RCP storm sewer and approximately 1,000 feet of ductile iron sanitary sewer with pipe sizes ranging from 12-inch diameter to 54-inch diameter. Also replaced approximately 220 feet of 20-inch cast iron water main. The construction required vibration monitoring during sheeting and operation and maintenance of a temporary dewatering treatment system.
- Project Manager for remediation of several gasoline service station sites in Westchester County and Long Island, New York. Developed design/build approach for fast-track implementation while complying with NYSDEC guidelines. Typical remedial systems include groundwater recovery and treatment, soil vapor extraction and air sparging, and vapor treatment.
- Principal Engineer for an underground utility construction project for the expansion of a large groundwater treatment operation. Project included excavation and installation of over 3,500 linear feet of water main, product pipeline and control conduits within NYC streets.
- Provided engineering evaluation of options for UST repair/replacement at major railroad yard in Sunnyside, Queens, New York to address relocation needs and comply with NYSDEC tank regulations. Worked on preparation of UST upgrade work plan, cost estimates and contract documents.
- Principal Engineer for a building decommissioning and demolition project at an active railroad facility in Sunnyside, Queens, New York. Project included preparation of demolition specifications, collection of waste characterization soil and water samples, air monitoring, removal and disposal of impacted soil, removal and disposal of asbestos containing material, removal and disposal of demolition debris, and preparation of a demolition completion report.
- Project Manager for remediation of industrial airport site in Millville, New Jersey under ECRA/ISRA programs. Managed planning, detailed design and permitting activities required to replace 1,000-gpm public supply well impacted by extensive chlorinated solvent plume. Also managed the conceptual planning, permitting and final design of the 200-gpm groundwater recovery, treatment and recharge system

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that includes ultraviolet light/hydrogen peroxide system controlled by PLCs. This project won the annual Honor Award granted by the American Academy of Environmental Engineers and Scientists.

- Project Manager for the design of wastewater treatment plant (WWTP) upgrades at three (3) separate facilities under the program to protect New York City's watershed. The work included preparing conceptual upgrade plans, facility plans, detailed cost estimates, design drawings and specifications, startup plans, O&M plans, and oversight of construction. Design at one facility included replacement of secondary treatment components and the addition of recirculating sand filters, microfiltration units, emergency generator and telemetry systems.
- Design Manager for groundwater recovery and treatment system at a former manufactured gas plant (MGP) in Atlantic Highlands, New Jersey. Developed specification for implementation of directional drilling under state highway to expand groundwater recovery system to capture off-site contamination. Treatment system design included PLC-based control software that significantly reduced on-site staffing needs. Also, managed construction phase, negotiated/reduced change orders and worked with several subcontractors to meet tight regulatory agency schedule for system start-up. The system removes cyanide, metals, VOCs, and free-phase product.
- Project Manager for upgrading industrial process wastewater treatment system at medical products manufacturing facility in Hancock, New York. The upgraded system removes VOCs and metals, including lead, zinc, and copper, from highly variable waste streams generated by the manufacture of surgical instruments. Prepared design documents for automated system that allows for expected future increase in plant manufacturing capabilities. Also, prepared O&M plan for the treatment system.
- Project Manager for tank replacement program and automation of fueling system for commuter railroad at sites in New York City and Westchester County. Fueling facilities were designed in compliance with federal and state UST regulations.
- Senior Engineer for preparing and certifying Spill Prevention Control and Countermeasure (SPCC) Plans for 25 U.S. Postal Service facilities.
- Project Manager for remediation of several US Postal Service sites. Prepared site-specific HASP and Work Plans for removal of USTs and characterization of impacted soils. Supervised field personnel during investigative and construction phases of work. Also, prepared designs for new double-walled UST systems.
- Project Engineer for environmental audits at approximately 20 commercial and manufacturing facilities aimed at evaluating compliance with federal, state, and local air, wastewater, and hazardous waste regulations. Audits addressed regulatory areas including RCRA, SARA, CWA, CAA, TSCA, and OSHA.
- Project Manager for planning, permitting, design and construction oversight of 12,000-foot sewer system for the collection of sanitary and industrial wastewater in Melville, New York. Sewer design included route selection, sizing of gravity sewers, provisions for utility crossings, solar powered flow meters, grease interceptor, pump station for one branch line, and proper abandonment of leaching facilities. Project also included installation of two 20,000-gallon underground storage tanks and a tanker truck fill area with secondary containment. The final phase of the project consisted of the addition of an industrial waste pretreatment system utilizing pH adjustment, filtration, and a bioreactor tank. This project provided a safe and reliable wastewater disposal system and eliminated a costly 40,000-gallon per day hold and haul system.
- Project Manager for the planning and design of irrigation system using treated wastewater in the Catskills area. Conducted study on acceptable uses of wastewater treated by tertiary methods in accordance with federal and New York State guidance.
- Project Engineer, prepared feasibility study for state Superfund site of former manufacturer of printing inks and ribbons in Glen Cove, New York. Elevated levels of toluene, xylenes, ethylbenzene, and benzene were detected in on-site soils above soil cleanup objectives (SCOs) for the protection of groundwater. Evaluated ground water and soil remediation technologies. After approval of FS by NYSDEC, managed the final design, construction oversight, and startup phases of the project. Remedial system included 30 variable speed controlled recovery pumps, filtration, iron sequestration, tray aeration, soil vapor extraction, and vapor treatment via catalytic oxidation.
- Principal Engineer for development of innovative approach for remediation and reuse of federal Superfund site in Plaistow, New Hampshire. Prepared cost estimates for approaches aimed at reducing project costs by utilizing alternate treatment technologies and maximizing efficiency of existing system. Phased approach for site includes hot spot soil removal, enhancements of existing remedial system, implementing air sparging with SVE and follow-up with polishing step of in situ bioremediation. This alternative plan would achieve environmental restoration of site and is tailored to anticipated re-development of land.
- Principal Engineer for the design of modifications to an active sub-slab depressurization system (SSDS) to mitigate chlorinated solvent soil vapor contamination beneath an existing occupied shopping mall in the Bronx, New York. Worked on coordination and troubleshooting of construction issues. Managed the system testing and start-up and provided recommendations to improve system operation.

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ROUX

PROFESSIONAL PROFILE

Jessica J. Lam
Project Geologist

TECHNICAL EXPERIENCE

Project and Field Management of Phase I and II Environmental Site Assessments, Sites in the New York State Brownfield Cleanup Program, and Sites in the New York City Office of Environmental Remediation Voluntary Cleanup Program. Field Management and oversight of remedial construction activities including soil excavation, transport, and disposal. Preparation of Remedial Investigation Reports, Remedial Action Work Plans, and Remedial Action Reports. Performance of sampling for soil, soil vapor, and groundwater. Additional experience includes investigation of petroleum-related contamination and chlorinated solvent remediation projects.

EXPERIENCE SUMMARY:

Seven years of experience: Project Geologist at Roux Environmental Engineering and Geology, D.P.C.
Senior Project Manager at Advanced Cleanup Technologies, Inc.
Environmental Program Specialist III at Alaska Department of Environmental Conservation

CREDENTIALS:

B.A. – Geology, SUNY Geneseo 2013
M.S. – Geographic Information Systems, The Johns Hopkins University 2016
OSHA 40-Hour HAZWOPER and OSHA 8-Hour Annual Refreshers
OSHA 30-Hour Construction Safety, 2019

KEY PROJECTS

- Phase I Environmental Site Assessments (ESA) in accordance with ASTM E1527-05 and ASTM E1527-13 for due diligence of residential buildings, commercial office buildings, large retail shopping centers, and industrial facilities. Supervised all Phase I aspects including regulatory agency contact, database management and review, site inspection, report preparation, and recommendations and scope of work for additional sampling.
- Due diligence projects for property owners, developers, municipalities, and lenders at residential, commercial, and industrial properties throughout the Metropolitan New York Area. Activities included performance of Phase II Environmental Site Assessments, vapor intrusion studies, underground storage tank evaluations and closures, and interaction with regulatory agencies.
- New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Remedial Investigation, Former Dry Cleaners Main Street, Queens, New York. Past operations include a commercial dry-cleaning facility. Senior Project Manager for remedial investigation activities to address on-site and potential off-site chlorinated solvent impacts to soil, soil vapor, and groundwater. Resposible for preparation of BCP application, a Remedial Investigation Work Plan (RIWP), and Interim Remedial Measure Work Plan (IRM).
- New York City Office of Environmental Remediation (NYCOER) Voluntary Cleanup Program (VCP), E -Designation Requirements, Commercial Street, Brooklyn, New York. Development included affordable housing and community space on a vacant lot located adjacent to the former NuHart Superfund Site. Senior Project Manager for the preparation of documents to enter the site into the NYCOER VCP program and to address "E" designation requirements. Responsible for project submittals, certified drawings, Phase I ESA, Remedial Investigation Report (RIR), and Remedial Action Work Plan (RAWP). Provided environmental support during remedial action.
- NYSDEC BCP Remedial Investigation, Active Dry Cleaners, Bronx, New York. Senior Project Manager for remedial investigation activities and preparation of the RIWP for an active dry cleaning facility with on-site and potential off-site chlorinated solvent impacts to soil, soil vapor, and groundwater.
- NYSDEC BCP Remedial Investigation, Queens Boulevard, Queens, New York. Senior Project Manager for remedial investigation activities and the preparation of the RIWP for a dry-cleaning operation with on-site and potential off-site impacts to soil, soil vapor, and groundwater.
- NYCOER VCP, E -Designation Requirements, Kings Highway, Brooklyn, New York. Senior Project Manager for entering the Site into NYCOER VCP with a remedy consisting of mass soil excavation, a composite soil cover system design, and vapor barrier installation. The Remedial Action Work Plan and Stipulation Agreement were approved by the NYCOER. Responsible for submitting the Remedial Action Report (RAR), which was approved and the Notice of Completion was issued. Following construction completion, assisted in applying for various grants available through the NYC BIG program.
- Spill Investigation, Main Street, Flushing, Queens, New York. Senior Project Manager for work plan to perform an environmental investigation in association with the delineation of an open NYSDEC spill. Petroleum from historical fueling operations at the Site impacted soil and groundwater. Performed quarterly groundwater monitoring. Prepared and submitted a Spill Closure Report summarizing collected soil and groundwater data to NYSDEC.
- Phase II Environmental Investigation, Nassau County, New York. The Site is located downgradient to a CVOC groundwater plume associated with a Superfund Site. Project Geologist for various phases of investigation including drilling, soil sampling, soil vapor sampling, groundwater sampling, and reporting. Coordinated project scheduling and managed environmental subcontractors, equipment vendors, and laboratories on an expedited timeframe to complete work within the project deadlines.
- Air Monitoring Study, Manhattan, New York. Project Geologist for ambient air investigation at a heliport facility. Screened total volatile organic compounds (VOC), carbon monoxide (CO), and nitrogen dioxide (NO_2) at on-site and off-site locations.

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ROUX

PROFESSIONAL PROFILE

Patrick Kilkelly
Staff Geologist

TECHNICAL SPECIALTIES

Environmental site assessments focusing on soil, groundwater, and soil vapor investigations using multiple sampling techniques and a variety of analytical methods. Remedial construction and soil excavation oversight of sites enrolled in the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP). Additional experience in remedial construction and soil excavation oversight of multiple sites enrolled in the New York City Mayor's Office of Environmental Remediation (NYCOER). Management of waste characterization and removal.

EXPERIENCE SUMMARY

One year professional experience as a Staff Assistant Geologist and Staff Geologist at Roux Environmental Engineering and Geology D.P.C., Islandia, New York

CREDENTIALS

B.S. Geology, State University of New York College at Oswego, 2018
OSHA 40-Hour HAZWOPER Training, 2018
OSHA 10-Hour Construction Outreach Training, 2018
OSHA 30-Hour Construction Outreach Training, 2019
Exxon Mobil Loss Prevention System Training, 2019
First Aid and CPR Certified, 2019

KEY PROJECTS

- Field Manager for construction and foundation excavation oversight of a site in Hudson Yards, New York enrolled the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP). Responsibilities included coordination with the general contractor and excavation contractor, excavation support and soil inspection, and organization and proper handling of manifests and tickets for export tracking purposes. Additional responsibilities involved foundation dewatering oversight and monthly sampling from on-site dewatering filtration system, collection of soil samples as necessary, stormwater pollution prevention plan inspections, Community Air Monitoring Program support, and daily reporting of site activity.
- Field Manager for demolition oversight of a former juvenile detention center located in Bronx, New York enrolled in NYSDEC Brownfield Cleanup Program (BCP). Responsibilities included oversight of all demolition and foundation removal activities from existing building, implementation of Community Air Monitoring Program, and daily reporting of site activities. Additional responsibilities included coordination with demolition contractor, stormwater pollution prevention plan inspections, oversight of removal of C&D material, oversight of installation of 20-mil thick Perminator (underslab vapor barrier) in foundation removal areas to serve as a boundary between native soils and backfilled C&D material. Additionally, Mr. Kilkelly conducted oversight for the removal and decontamination of two (2) 12,000-gallon underground storage tanks (USTs).
- Field Manager for construction and foundation excavation oversight of a NYCOER site in Harlem, New York. Responsibilities included excavation oversight and instruction, management of waste removal and manifests, coordination with excavation contractor and soil broker, and inspection of excavated soil and soil stockpiles using visual, olfactory methods as well as instrumentation. Additional responsibilities involve Vapor Barrier Inspections, implementation of a Community Air Monitoring Program, and daily reporting of site activity.
- Field Manager for multiple projects throughout Brooklyn, Manhattan, Bronx, and Long Island for environmental subsurface investigations and/or environmental monitoring. Fieldwork included health and safety oversight and management of subcontractors during utility clearance, soil boring installation, groundwater monitoring well installation, and soil vapor point installation. Field responsibilities included sampling of soil, soil vapor, and groundwater for variety of analyses. Additional responsibilities included coordinating and ordering equipment rentals with third party vendors, ordering appropriate sample bottleware from lab, and coordinating with subcontractors.
- Site Safety Officer for various remedial investigation sites. Responsibilities include preparation of health and safety plans (HASPs); developing and reviewing job safety analysis (JSA) documents; onsite safety meeting management; safety document preparation (Lessons Learned, Near Loss, Field Audits, etc.); and planning/execution of corrective actions.

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Rachel Henke
Project Scientist

TECHNICAL SPECIALTIES
Design, implementation, and management of Remedial Investigations and Remedial Actions for sites in regulatory programs including the United States Environmental Protection Agency Superfund Program, the New York State Brownfield Cleanup Program, and the New York City Office of Environmental Remediation Voluntary Cleanup Program; Management of due diligence Phase I and Phase II Environmental Site Assessments; Preparation and management of Brownfield Cleanup Program Applications, Remedial Investigation Work Plans, Remedial Investigation Reports, Remedial Action Work Plans, and Final Engineering Reports; Investigation and evaluation of petroleum, chlorinated solvent and per- and poly fluoroalkyl substances (PFAS)-related contamination; Management of large-scale soil excavation projects including demolition, waste characterization, and construction activities.

EXPERIENCE SUMMARY
Six years of experience: Project Scientist, Staff Scientist, and Staff Assistant Scientist, Roux, Islandia, New York.

CREDENTIALS
B.S. Earth and Environmental Science, Lehigh University, 2014
B.A. Biology, Lehigh University, 2014
OSHA 40-hour HAZWOPER Training, 2014
OSHA 8-HOUR Refresher Training, Certificate Current
OSHA 30-hour Construction Safety Training, 2019
New York State Builders Association 4-Hour Stormwater Training, 2016
First Aid and CPR Certified
Loss Prevention System (LPS) Awareness, 8-Hour Certified
Transit Worker Identification Credential Card Holder
AMTRAK Contractor Safety and Security Training

KEY PROJECTS
- Project manager for the Remedial Investigation and Remedial Action implementation associated with former dry cleaners and gas station releases at a 65,000 square foot property in the Bronx, New York. The site was enrolled in the New York State Brownfield Cleanup Program (NYS BCP) and successfully achieved a Track 4 Clean-Up. Responsibilities included the design and management of a Remedial Investigation. As part of this work, soil borings, monitoring wells, and soil vapor monitoring points were installed, and hydrogeologic cross sections were prepared. Additionally as part of this project, a Remedial Action Work Plan, Final Engineering Report, Fact Sheets, and Monthly Reports were prepared in accordance with New York State Department of Environmental Conservation (NYSDEC) requirements. Current redevelopment plans include a mixed-use development with parking and limited landscaping.
- Project manager for a site enrolled in the NYSDEC BCP with chlorinated solvent contamination is sub-slab vapor and indoor air. Technical responsibilities included design and management of the Remedial Investigation and Interim Remedial Measure (IRM). The IRM included the design of a sub-slab depressurization system within the footprint of the existing site building. Following completion of the IRM, the site will be occupied by an educational facility for children with special needs.
- Project Manager providing technical strategy/ consulting on behalf of a potential responsible party (PRP) participating in a Federal Superfund Remedial Investigation/ Feasibility Study (RI/FS) at an industrial waterway in Brooklyn, New York. Technical responsibilities include historical file review and litigation support. Project management responsibilities include management of annual budget exceeding $1 million, management of various technical subcontractors on behalf of client and routine communication with litigation team.
- Project Manager for the preparation and implementation of an extensive Phase II Environmental Site Assessment Work Plan at a former ink ribbon and carbon manufacturer in Glen Cove, New York on behalf of a prospective purchaser. The Phase II ESA included groundwater, soil, and soil vapor sampling to investigate the potential presence of contamination at the Site associated with its historical industrial operations and listing as a State Superfund Site.
- Project Manager for an inactive solid waste landfill site in upstate New York that was investigated under the NYSDEC Inactive Landfill Initiative. Responsibilities included management of a groundwater investigation to examine the potential presence of per- and poly fluoroalkyl substances (PFAS) contamination.
- Project support for ongoing large and complex mixed-use development of a 92-acre Site located in Syosset, New York. The site was accepted into the New York State BCP and has an extensive environmental history, including former use as a wire and conduit manufacturer (former NYS Inactive Hazardous Waste Site), former landfill (currently a Federal Superfund Site), and town DPW facility. Activities completed included compiling numerous historical environmental reports prepared for the site; interacting with NYSDEC, USEPA, NCDOH; completing a supplemental soil investigation (including extensive use of XRF Technology, as metals are the compound of concern); conducting a groundwater investigation (water is over 100 feet deep); and managing a Remedial Investigation that included a groundwater investigation to evaluate the potential presence of per- and poly fluoroalkyl substances (PFAS) contamination.
- Project Manager for the redevelopment of a 2.7-acre site in the South Ozone Park region of Queens, New York. The project was enrolled in the NYC OER Voluntary Cleanup Program (VCP) to address an E-designation on the property. During construction, over

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35,000 CY of soil was transferred through the Clean Soil Bank, and the Site is on track to obtain a Track 1 Cleanup. When constructed, the project will be the first vertical logistics facility to serve the JFK Market.

- Project Manager for the redevelopment of a strip mall in East Orange, New Jersey that contained seven former and one operating dry cleaner, three former fueling stations, and a former automotive repair shop. Project scope included completing a New Jersey specific Preliminary Assessment and Site Investigation, assessing indoor air and IECs, and preparing and implementing a Remedial Investigation Work Plan and Remedial Action Work Plan.
- Project Manager for the redevelopment of a 3.1-acre site in the St. George region of Staten Island, New York. The project was enrolled in the NYC OER VCP, which transferred over 20,000 CY of soil through the Clean Soil Bank and will obtain a Track 1 Cleanup. When constructed, the project will include 62,000 sq ft of retail space, 109 residential apartments, a 180-room hotel, 125,000 sq ft of subgrade parking, and four rehabilitated historic U.S. Lighthouse Depot buildings.
- Project Manager for a site in the NYSDEC Spills Program in Brooklyn, New York. Responsibilities included a remedial investigation to delineate the nature and extent of the subsurface contamination; implementing an *in situ* chemical oxidation injection program utilizing RegenOx™ oxidant compound, which was injected into 28 injection points throughout the site; and designing and managing a hot spot excavation remedial measure to remove the source area that served as a continuing source of groundwater contamination.
- Project Manager for a high-end residential redevelopment project in Mineola, New York. Responsibilities included designing and implementing an *in situ* waste characterization program, excavation support, and the closure and abandonment of 10 Class V drywell structures. The drywell abandonment was conducted in accordance with the USEPA Underground Injection Control Program as administered by USEPA Region 2 and the Nassau County Department of Health (NCDOH). The project involved coordination with the client, the client's on-site subcontractor, the NCDOH, and the USEPA to successfully complete the job. A work plan and summary report were prepared to satisfy NCDOH and USEPA's requirements and obtain a No Further Action Letter.
- Project Manager for a high-end residential redevelopment project in New Rochelle, New York. Responsibilities included designing and implementing an *in situ* waste characterization program and excavation support. Despite being outside of the five boroughs of New York City, the Site was allowed to transfer soil through the NYCOER Clean Soil Bank. Responsibilities included coordination with the client, the client's on-site subcontractor to successfully complete the job.
- Project Manager of a site investigation project in Lynbrook, New York immediately downgradient of a 11.5-acre cemetery. Evaluated source of contaminants as a result of cemetery operations and historical site use including a manufactured gas plant and former dry cleaner. Collected soil, soil vapor, and groundwater samples to support delineation of pesticides and herbicides suspected to be emanating from the cemetery.
- Project Manager for the remediation of four drywell structures at a former pharmaceutical facility in Hauppauge, New York. The drywell remediation project was conducted in accordance with the Suffolk County Article XII requirements and entailed coordination with Suffolk County Department of Health Services (SCDHS). This project was unique in that the drywell sediment characterization and remediation work had to be completed within one month of receiving preliminary characterization data from SCDHS, with a threat of monetary penalty if this schedule was exceeded. The remediation and Remediation Summary Report were completed in the timeframe specified by SCDHS.
- Project Manager for the on-going site management of a redevelopment project in Corona, Queens, New York. The Site formerly operated as an automobile dealership and was accepted into the NYSDEC Brownfield Cleanup Program. A conditional Track 1 Cleanup was successfully completed at the Site in 2015, and the Site is now subject to a Site Management Plan (SMP). The final remedial design and SMP include a vapor barrier, active ventilation systems in the proposed sub-grade parking levels, and biannual groundwater monitoring to address the remaining CVOC contamination in regional groundwater.
- Project Manager and support to Expert Witness for a case on behalf of a PRP (Defendant) at a former landfill in upstate New York. The site is in the state superfund program and contained waste from Love Canal. Downgradient receptors include a residential community. The case involves the evaluation of mass contribution of specific chemicals, timing of disposal, and cost allocation. Complaint Index No. E161116/2017; Supreme Court of the State of New York, Niagara County.
- Support to Expert Witness for an on-going case between a major insurance carrier and a large multi-national chemical manufacturer. Case involved categorizing past costs of 12 chemical sites across the country. Assisted in the preparation of the expert report on behalf of the insurance carrier (Defendant). Complaint No. 84 Civ. 1968 (JSR); U.S. District Court, Southern District of New York.
- Field Manager responsible for implementation of a Remedial Investigation Work Plan (RIWP) and Waste

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Characterization Sampling Plan at a 2.98-acre NYS BCP site containing chlorinated solvents, heavy metals, and petroleum compounds in soil, soil vapor, and groundwater over one city block in Astoria, New York. Responsibilities included soil and soil vapor sampling in addition to groundwater sampling for emerging contaminants (1,4-dioxane and PFAS).

- Field Manager for a site in the NYS BCP that also required a RCRA compliant facility closure. The site is a former paint factory located in Long Island City, New York. Due diligence environmental investigations determined historical site operations adversely impacted the subsurface, including a LNAPL plume in addition to petroleum hydrocarbon impacts to the soil and groundwater. Responsibilities included: 1) oversight of RCRA closure activities at the site that included emptying, cleaning, and scrapping 65 ASTs/vessels, decontaminating approximately 30,000 square feet of hazardous waste storage areas within the Paint Factory Building and collecting compliance samples, and 2) oversight of implementation of the RAWP, which included a large excavation requiring SOE and completion under a tent due to odor concerns, multiple ISCO injections, removal/ abandonment of USTs with a total capacity of over 200,000 gallons, and installation of a LNAPL recovery system.
- Sampling team leader tasked with the rapid assessment of soils outside 40 residential and sensitive-use properties located near the former battery recycling facility in Vernon, California. Lead emissions from the former facility are suspected of affecting surface and near-surface soils in surrounding areas as a result of aerial deposition. Responsibilities included conducting soil sample screening on each property at up to 15 locations on lawn areas, bare soils, garden areas, play areas, and roof drip-zones using an X-ray fluorescence (XRF) analyzer to submit the two largest sampling areas for confirmatory laboratory analysis.
- Field manager in charge of Pre-Design Investigation and Waste Characterization sampling event for a New York State BCP project in Brooklyn, New York. The site is an auto dealership with petroleum and chlorinated solvent contamination in soil and groundwater.
- Field Manager for aquifer tests completed at a closed landfill in Holtsville, New York. Field tasks included monitoring groundwater levels with a network of *In Situ* LevelTrolls during a step-drawdown test and during a constant-rate pump test. Aquifer test data were subsequently used to determine hydrogeologic parameters of the aquifer beneath the Site using AQTESOLV software and various methods of analyses.
- Field Manager for a site in the NYCOER VCP. The site is a former gas station located in Manhattan, New York. Historical site operations adversely affected the subsurface through petroleum hydrocarbon impacts. Responsibilities included implementing a Community Air Monitoring Program (CAMP); managing soils including transportation and disposal; collecting soil samples; and maintaining communication between subcontractors and Roux office support.
- Performed numerous Phase I and II Environmental Site Assessments for due diligence in connection with property transfers for the New York Metropolitan Area.
- Remedial construction manager responsible for soil excavation and waste removal oversight for development in Staten Island, New York. Responsibilities include oversight excavation, organization, and proper handling of waste manifests; performing Stormwater Pollution Prevention Plan (SWPPP) inspections; ensuring compliance with the Site Management Plan; health and safety oversight; and reporting NYCDEP and NYSDEC inspections to the client.
- Field Manager responsible for the implementation of a CAMP during excavation and disposal activities at multiple locations in Manhattan and Queens, New York. Ms. Henke monitored airborne dust and VOCs that were potentially generated by remedial action work activities and reviewed the collected data for exceedances of the New York State Department of Health (NYSDOH) guidelines.
- Site Safety Officer for various remedial investigation sites. Responsibilities include preparation of health and safety plans (HASPs), job safety analysis (JSA) documents development and review, on-site safety meeting management, safety document preparation (Lessons Learned, Near Loss, Field Audits, etc.), and planning/executing corrective actions.
- Assisted in the implementation of a large-scale waste characterization program and remedial investigation for a major redevelopment project in Flushing, New York that is enrolled in NYCOER VCP and E-designation programs. The project included the coordination and oversight of an *in situ* waste characterization sampling of over 450,000 tons of soil and delineating a NYSDEC spill site within the project footprint.
- Assisted in bi-annual soil vapor monitoring round to surveil the largest subsurface free-product plume in North America at a former fuel and oil distribution terminal in Brooklyn, New York. Activities included the collection of soil vapor and ambient air samples from on-site and off-site monitoring wells using EPA method TO-15.

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JUDY V. HARRY
P. O. Box 208
120 Cobble Creek Rd.
North Creek, NY 12853

Occupation: Data Validator/Environmental Technical Consultant

Years Experience: 41

Education: B.S., Chemistry, Magna cum laude, 1976, Phi Beta Kappa

Certifications: New York State Woman-Owned Business Enterprise (WBE)

Relevant Work History:

Data Validation Services: September 1989 - present

Sole proprietor of Data Validation Services, a woman-owned small business registered with SAM, providing consultation/validation services to regulatory and commercial clients.

These services include the review of analytical laboratory data for compliance with respect to specific protocols, accuracy and defensibility of data, verification of reported values, and evaluation of quality parameters for analytical usability of results. Approved by USEPA, NYSDEC, NJDEP, NYSERDA, and NYCDEP as a data validator for projects, including USEPA Superfund, Brownfield, and lead sites, and those contracted through the NYSDEC Division of Hazardous Waste Remediation, Division of Solid Waste, and Division of Water Quality.

Performed validation for compliance with laboratory analytical protocols including USEPA OLM, USEPA OLC, USEPA ILM, USEPA DFLM, USEPA SOW3/90, USEPA SOW 7/87 CLP, USEPA SOW 2/88 CLP, USEPA SW846, RCRA, AFCEE, NYS 6 NYCRR Part 360, 40 CFR, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, including TO-15, 1989/1991/1995/2000/2005 NYSDEC ASPs, and 1987 NYSDEC CLP.

Performed validation according to the USEPA National and Regional SOPs and Functional Guidelines, AFCEE requirements, NYSDEC Validation Scope of Work, NYS DUSR, and NJDEP Division of Hazardous Site Mitigation/Publicly Funded Site Remediation SOPs.

Performed validation for USEPA Superfund Sites including Salem Acres, York Oil, Port Washington L-4 Landfill, Bridgeport Rental and Oil Services, GE-MRFA, MMR/ OTIS AFB, LCP, and Peter Cooper site; and for USEPA lead sites including SJ&J Piconne, Maska, Bowe System, Jones Sanitation, and Syossett Landfill, involving CLP, RAS, and SAS protocols.

Contracted for NYSDEC Superfund Standby Contracts with LMS Engineers, HDR, CDM Smith, Malcolm-Pirnie/ARCADIS, Ecology & Environment, Shaw Environmental, CG&I, O'Brien & Gere Engineers, and EC Jordan, involving samples collected at NYS Superfund Sites and analyzed under the NYSDEC ASP.

Performed validation services for NYSDEC Phase II remedial investigations, RI/FS projects, Brownfield sites, and PRP over-site projects for hazardous waste sites.

Performed validation services for clients conducting RI/FS activities involving samples of many matrices, including waste, air, sludges, leachates, solids/sediments, aqueous, and biota.

Clients have included AECOM, ARCADIS, Barton & Loguidice, Benchmark Engineering, Bergmann Associates, Blasland, Bouck & Lee, Brown and Caldwell, CDM Smith, CB&I Shaw Environmental, C&S Consulting Engineers, Chazen Companies, Clough Harbour & Associates, Columbia Analytical Services, C.T. Male, Dames & Moore, Day Engineering, EA Engineering, EcolSciences, Ecology & Environment, Ecosystems, EC Jordan, Environmental Chemical Corporation, EHRT, ENSR Consulting, ELM, ERM-Northeast, Fagan Engineers, Fanning Phillips & Molnar, FluorDaniel GTI, Frontier, Foster Wheeler Environmental Corp, Frontier Technical, Galson Consultants, GE&R, Geomatrix Consultants, GZA Environmental, Handex of N, H2M Group, HDR, HRP, IT Corp, Jacques Whitford, JTM Associates, Labella Associates, Langan Engineers, Leader Environmental, Lockwood, Kessler & Bartlett, LMS Engineers, Malcolm-Pirnie, Metcalf & Eddy, NWEC&C, O'Brien & Gere Engineers, Pace, Parsons Engineering-Science, Plumley Engineering, Prescott Environmental, P. W. Grosser, Rizzo Associates, Roux Associates, Sear Brown Group, SECOR, Shaw Environmental, Stantec, ThermoRemediation Inc., TRC Environmental, Turnkey Environmental Restoration, TVGA Engineering, URS Consultants, Wehran Emcon, Weston, YEC, and private firms.

Provided consultation services to laboratories regarding analytical procedures and protocol interpretation, and to law firms for litigation support.

Provided services to firms involving audits of environmental analytical laboratories to determine analytical capability, particularly for compliance with NYSDEC ASP and AFCEE requirements.

Guest speaker on a panel discussing Data Review/Compliance and Usability, for an analysis workshop for the New York Association of Approved Environmental Laboratories, 1993.

Adirondack Environmental Services: June 1987 - August 1989

Senior mass spectroscopist for AES. Responsible for GC/MS analyses of environmental samples by USEPA and NYSDEC protocols, development of the GC/MS laboratory, initiating the instrumental and computer operations from the point of installation, and for implementing the procedures and methodologies for Contract Laboratory Protocol.

CompuChem Laboratories: May 1982 - January 1987

Managed a GC/MS production laboratory; developed, implemented, and supervised QA/QC criteria at three different levels of review; and was responsible for the development and production of the analysis of environmental and clinical samples. Directed a staff of 23 technical and clerical personnel, and managed the extraction and GC/MS labs and data review operations.

Research Triangle Institute: December 1979 - May 1982

Worked as an analytical research chemist responsible for development of analytical methods for the EPA Federal Register at RTI. This involved analysis of biological and environmental samples for priority pollutants, primarily relating to wastewaters and to human sampling studies. Method development included modification and interfacing of the initially developed Tekmar volatile purge apparatus to GC/MS, development and refinement of methods for entrapment and concentration of the air medium for subsequent volatile analysis, and the analysis and resolution/ identification of individual PCB congeners within Aroclor mixtures by capillary column and mass spectra.

Guardsman Chemical Company: February 1977 - November 1979

Performed all quality control functions for the manufacturing plant. Performed research and development on coatings and dyes.

Almay Cosmetics: May 1976 - December 1976

Product evaluation chemist. Responsible for analytical QC of manufactured products.

Publication

Pellizzzari, E.D., Moseley, M.A., Cooper, S.D., Harry, J.V., Demian, B., & Mullin, M. D. (1985). Recent Advances in the Analysis of Polychlorinated Biphenyls in Environmental and Biological Media. *Journal of Chromatography*, 334(3) 277-314.

ATTACHMENT 2

Laboratory's Standard Operating Procedures

Title: Per- and Poly-fluorinated Substances (PFAS) in Water, Soils, Sediments and Tissue

[Method 537 (Modified), PFAS by LCMSMS]

Approvals (Signature/Date):

09/28/2020	09/28/2020
Don Dawicki — Date	Ryan Hammond — Date
Laboratory Director	Operations Manager / EHS Coordinator
09/28/2020	09/28/2020
Kristine Dusablon — Date	Mark Fausel — Date
Quality Assurance Manager / Technical Manager	Department Supervisor

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1.0 Scope and Application

This SOP describes the laboratory procedure for the preparation and analysis of per- and polyfluorinated substances using liquid chromatography/tandem mass spectrometry (LC/MS/MS).

Program specific requirements are not included in this SOP. The details of program specific requirements are specified in other laboratory work instructions relevant to the program.

1.1 Analytes, Matrices, and Reporting Limits

This procedure is amenable with water, soil, sediment and tissue sample matrices.
The list of target compounds that may be determined from this procedure is provided below. Table 1 presents the compounds along with their associated reporting limits (RL).

Compound Name	Abbreviation	CAS #
Perfluoroalkylcarboxylic acids (PFCAs)		
Perfluoro-n-butanoic acid (Perfluoro-n-butyric acid)	PFBA	375-22-4
Perfluoro-n-pentanoic acid	PFPeA	2706-90-3
Perfluoro-n-hexanoic acid	PFHxA	307-24-4
Perfluoro-n-heptanoic acid	PFHpA	375-85-9
Perfluoro-n-octanoic acid	PFOA	335-67-1
Perfluoro-n-nonanoic acid	PFNA	375-95-1
Perfluoro-n-decanoic acid	PFDA	335-76-2
Perfluoro-n-undecanoic acid	PFUdA (PFUnA)	2058-94-8
Perfluoro-n-dodecanoic acid	PFDoA	307-55-1
Perfluoro-n-tridecanoic acid	PFTrDA	72629-94-8
Perfluoro-n-tetradecanoic acid	PFTeDA (PFTA)	376-06-7
Perfluoro-n-hexadecanoic acid	PFHxDA	67905-19-5
Perfluoro-n-octadecanoic acid	PFODA	16517-11-6
Perfluorinated sulfonic acids (PFSAs)		
Perfluoro-1-butanesulfonic acid	PFBS	375-73-5
* Perfluoro-1-pentanesulfonic acid	PFPeS	2706-91-4
Perfluoro-1-hexanesulfonic acid	PFHxS	355-46-4
Perfluoro-1-heptanesulfonic acid	PFHpS	375-92-8
Perfluoro-1-octanesulfonic acid	PFOS	1763-23-1
* Perfluoro-1-nonanesulfonic acid	PFNS	68259-12-1
Perfluoro-1-decanesulfonic acid	PFDS	335-77-3
Perfluorododecanesulfonic acid	PFDoS	79780-39-5
Perfluorinated sulfonamides (FOSA)		
Perfluoro-1-octanesulfonamide	FOSA	754-91-6
Perfluorinated sulfonamidoacetic acids (FOSAA)		
N-ethylperfluoro-1-octanesulfonamidoacetic acid	EtFOSAA	2991-50-6
N-methylperfluoro-1-octanesulfonamidoacetic acid	MeFOSAA	2355-31-9
Fluorotelomer sulfonates (FTS)		
* 1H,1H,2H,2H-perfluorohexanesulfonic acid *(4:2)*	4:2 FTS	757124-72-4
1H,1H,2H,2H-perfluorooctanesulfonic acid *(6:2)*	6:2 FTS	27619-97-2

1H,1H,2H,2H-perfluorodecanesulfonic acid *(8:2)*	8:2 FTS	39108-34-4
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2)	10:2 FTS	120226-60-0
Fluorinated Replacement Chemicals		
Hexafluoropropylene oxide dimer acid	HFPO-DA	13252-13-6
4,8-dioxa-3H-perfluorononanoic acid	DONA	919005-14-4
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	F53B Major (9Cl-PF3ONS)	756426-58-1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	F53B Minor (11Cl-PF3OUdS)	763051-58-1

Abbreviations in parenthesis are the abbreviations listed in Method 537, where they differ from the abbreviation used by the laboratory's LIMS.
***Indicates the analyte is not certified in any state or program.**
Note: Analytes with secondary certification in NJDEP can be found in Appendix D and samples collected in New Jersey are only approved for non-potable water.

The working range of the method is listed below. The linear range can be extended by diluting the extracts.

Matrix	Nominal Sample Size	Reporting Limit	Working Range
Water	250 mL	2.0 ng/L - 5 ng/L	2.0 ng/L - 400 ng/L
Soil/Sediment	5 g	0.2 µg/Kg–0.5 µg/Kg	0.2 µg/Kg-40 µgKg
Tissue	1 g	1.0 µg/Kg–10 µg/Kg	1.0 µg/Kg–200 µg/Kg

On occasion clients may request modifications to this SOP. These modifications are handled following the procedures outlined in the Quality Assurance Manual.

2.0 Summary of Method

Water Samples: Water samples are extracted using a solid phase extraction (SPE) cartridge. PFAS are eluted from the cartridge with an ammonium hydroxide/methanol solution.

Soil/sediment/tissue samples are extracted with a KOH/methanol solution using a TCLP tumbler operating at 30 +/- 2 rpm for 3 hours followed by sonication for 12 hours. The mixture is centrifuged to reduce the amount of solid transferred when decanting the solvent. The solvent extract is exchanged to water using nitrogen blowdown, then the aqueous extract is extracted using a solid phase extraction (SPE) cartridge. PFAS are eluted from the cartridge with an ammonium hydroxide/methanol solution.

The final 80:20 methanol:water extracts are analyzed by LC/MS/MS operated in electrospray (ESI) negative ion mode. PFAS are separated from other components on a C18 column with a solvent gradient program using ammonium acetate (aq) and methanol.

An isotope dilution technique is employed with this method for the compounds of interest. The isotope dilution analytes (IDAs) consist of carbon-13 labeled analogs, oxygen-18 labeled analogs, or deuterated analogs of the compound of interest, and they are spiked into the samples at the time of extraction. This technique allows for the correction for analytical bias encountered when analyzing more chemically complex environmental samples. The isotopically labeled compounds are chemically similar to the compounds of concern and are therefore affected by sample-related interferences to the same extent as the compounds of concern. Compounds that do not have an

identically labeled analog are quantified by the IDA method using a closely related labeled analog.

Quantitation by the internal standard method is employed for the IDA analytes/recoveries. Peak response is measured as the area of the peak.

This SOP is based on the following reference methods:

- US EPA, "Method 537 - Determination of Selected Perfluorinated alkyl acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometery (LC/MS/MS)", Version 1.1, September 2009.
- Method ISO 25101, "Water quality – Determination of perfluorooctanesulfonate (PFOS) and perfluorooctanoate (PFOA) – Method for unfiltered samples using solid phase extraction and liquid chromatography/mass spectrometry", First Edition, 2009-03-01, International Organization for Standardization, Technical Committee ISO/TC 147, Water Quality, Subcommittee SC 2, Physical, chemical and biochemical methods.

If the laboratory's SOP is modified from the reference method, a list of method modifications along with technical justification may be found in Section 16. Modifications to this SOP may be applied on a project specific basis to meet project data quality objectives. Project specific modifications are documented in the project record.

3.0 Definitions

Refer to the Laboratory's Quality Assurance Manual (QAM) for the Glossary of Terms, Definitions and Acronyms except as follows.

Definitions of terms used in this SOP may be found in Appendix A.

4.0 Interferences

PFAS have been used in a wide variety of manufacturing processes, and laboratory supplies should be considered potentially contaminated until they have been tested and shown to be otherwise. The materials and supplies used during the method validation process have been tested and shown to be clean. These items are listed below in Section 6.

To avoid contamination of samples, standards are prepared in a ventilation hood in an area separate from where samples are extracted.

PTFE products can be a source of PFOA contamination. The use of PTFE in the procedure should be avoided or at least thoroughly tested before use. Polypropylene (PP) or polyethylene (PE, HDPE) products may be used in place of PTFE products to minimize PFOA contamination.

Standards and samples are injected from polypropylene autosampler vials with polyethylene screw caps once. Multiple injections may be performed on Primers when conditioning the instrument for analysis.

Random evaporation losses have been observed with the polyethylene caps causing high IDA recovery after the vial was punctured and sample re-injected. For this reason, it is best to inject standards and samples once in the analytical sequence.

Teflon-lined screw caps have detected PFAS at low concentrations. Repeated injection from the

same Teflon-lined screw cap have detected PFNA at increasing concentration as each repeated injection was performed, therefore, it is best to use polyethylene screw caps.

Volumetric glassware and syringes are difficult to clean after being used for solutions containing high levels of PFAS. These items should be labeled for use only with similarly concentrated solutions or verified clean prior to re-use. To the extent possible, disposable labware is used.

Both branched and linear isomers of PFOS, PFOA, PFHxS, PFBS, EtFOSAA and MeFOSAA can potentially be found in the environment, based upon scientific literature. If multiple isomers are present for one of these PFAS, these adjacent peaks are either completely resolved or not resolved but with a profound deflection that can be resolved during peak integration. The later of the peaks matches the retention time of the single labeled PFAS peak. In general, earlier peaks are branched isomers and are not a result of peak splitting, and all the chromatographic peaks observed in the standard and/or sample must be integrated and the areas included.

When reference standards of technical mixtures of specific PFAS area available, they should be used to ensure that all appropriate peaks are included during peak integration (at this time, only PFOS, PFOA, PFHxS, EtFOSAA and MeFOSAA are available as technical mixtures). Refer to Section 7, Reagents, for the available technical mixtures utilized by this SOP.

In an attempt to reduce PFOS bias, it is required that m/z 449>80 transition be used as the quantitation transition.

Per the Certificate of Analysis for labeled perfluorohexadecanoic acid (13C2-PFHxDA) produced by Wellington Laboratories, the stock standard contains roughly 0.3% of native perfluorohexadecanoic acid. The laboratory utilizes a weighted linear regression that is not forced through the origin for the calibration of native perfluorohexadecanoic acid to account for this contribution from its labeled IDA.

5.0 Safety

Employees must abide by the policies and procedures in the NDSC Eurofins TestAmerica Laboratories Environmental Health and Safety Manual (CW-E-M-001), and this document. This procedure may involve hazardous material, operations and equipment. This SOP does not purport to address all of the safety problems associated with its use. It is the responsibility of the user of the method to follow appropriate safety, waste disposal and health practices under the assumption that all samples and reagents are potentially hazardous. Safety glasses, gloves, lab coats and closed-toe, nonabsorbent shoes are a minimum.

5.1 Specific Safety Concerns or Requirements

Preliminary toxicity studies indicate that PFAS could have significant toxic effects. In the interest of keeping exposure levels as low as reasonably achievable, PFAS must be handled in the laboratory as hazardous and toxic chemicals.

Exercise caution when using syringes with attached filter disc assemblies. Application of excessive force has, upon occasion, caused a filter disc to burst during the process.

Laboratory procedures such as the use of pipets and transferring of extracts represent a significant potential for repetitive motion or other ergonomic injuries. Laboratory associates performing these procedures are in the best position to realize when they are at risk for these types of injuries. Whenever a situation is found in which an employee is performing the same

repetitive motion, the employee shall immediately bring this to the attention of their supervisor, manager or the EH&S staff. The task will be analyzed to determine a better means of accomplishing it.

Eye protection that satisfies ANSI Z87.1 (as per the Eurofins TestAmerica Corporate Safety Manual), a laboratory coat and nitrile gloves must be worn while handling samples, standards, solvents and reagents. Disposable gloves that have been contaminated will be removed and discarded; other gloves will be cleaned immediately.

Perfluorocarboxylic acids are acids and are not compatible with strong bases.

The use of vacuum systems presents the risk of imploding glassware. All glassware used during vacuum operations must be thoroughly inspected prior to each use. Glass that is chipped, scratched, cracked, rubbed or marred in any manner must not be used under vacuum. It must be removed from service and replaced.

The HPLC and MS/MS have areas of high voltage. Depending on the type of work involved, the instrument should be turned off or disconnected from its source of power prior to extensive maintenance.

5.2 Primary Materials Used

Table 2 lists those materials used in this procedure that have a serious or significant hazard rating along with the exposure limits and primary hazards associated with that material as identified in the SDS. **NOTE: This list does not include all materials used in the method.** A complete list of materials used in the method can be found in the reagents and materials section. Employees must review the information in the SDS for each material before using it for the first time or when there are major changes to the SDS.

6.0 Equipment and Supplies

Catalog numbers listed in this SOP are subject to change at the discretion of the vendor. Analysts are cautioned to be sure equipment used meets the specification of this SOP.

6.1 Miscellaneous

- 15 mL polypropylene test tubes with screw caps, Fisherbrand 05-539-5 or equivalent.
- 250-mL HDPE wide-mouth bottles with screw caps (ESS 0250-1901-).
- Analytical balance capable of weighing to the nearest 0.01g, and checked for accuracy each day it is used in accordance with BR-GT-008.
- SPE Vacuum manifold, 24-port, Restek # 26080 or equivalent.
- 1/8” OD Poly siphon lines, 30” long for sample loading.
- SPE Adaptor Caps for 1, 3, and 6 mL SPE Tubes, Polyethylene, Phenomenex # AH0-7191, or equivalent.
- SPE Stopcocks, Polyethylene and Polypropylene, Restek # 26083, or equivalent.
- Stainless steel solvent guide needles, Supelco # 57036, or equivalent.
- Heavy-Wall filter flask, Fisherbrand 4000mL, #FB-300-4000, or equivalent.
- TCLP tumbler, 30+/-2 rpm for extraction of soil, sediment and tissue samples.
- Glass-Col ZipVap 24-port extract concentrator.

- Polypropylene Syringe, 10 mL with luer-lok or luer slip tips, Norm-Ject AB10LL or equivalent.
- Volumetric Syringes, Class "A" (25µL, 50µL 100µL, and 500µL), Hamilton or equivalent.
- Automatic Pipettor, Finnpette, 1-5mL.
- Polypropylene autosampler vials, 300µL, 700µL and 2mL with polyethylene screw caps.
- Waters Oasis WAX 500 mg/6mL, (PN 186004647) or equivalent, for the extraction of PFAS from aqueous samples.
- Waters Oasis WAX 150 mg/6mL, (PN 186002493) or equivalent, for the cleanup of soils.
- 250mL Poly bottles containing 1.25g of Trizma Pre-Set Crystals, used for batch QC for samples received with Trizma preservation.
- 50mL graduated polypropylene centrifuge tubes. Falcon No. 352070 or equivalent.
- 500ml Polyethylene wash bottle
- 4, 6, and 12ml Class A Volumetric Pipette
- Graphitized carbon (Envi-Carb™ or equivalent)
- Miscellaneous laboratory apparatus (beakers, test tubes, volumetric flasks, pipettes, etc). These should be disposable wherever possible, or marked and segregated for high-level versus low-level use.

6.2 Analytical System

Liquid Chromatography/Tandem Mass Spectrometer (LC/MS/MS)-as described below. The use of a column heater is required to maintain a stable temperature throughout the analytical run. Data is processed using Chrom Peak Review, version 2.1 or equivalent.

- SCIEX LC/MS/MS

  This system consists of a Shimadzu HPLC interfaced with a SCIEX 5500 Triple Quad MS. The instrument control and data acquisition software is SCIEX Analyst, version 1.6.3 or equivalent.

  Shimadzu CTO-20AC HPLC equipped with 2 LC-20AD pumps and one DGU-20 degassing unit or equivalent. Shimadzu CTO-20AC Prominence Column Oven.

  Phenomenex Gemini C18 3um, 3.0mm x 100mm, Part No. 00D-4439-Y0, or equivalent.

  PFAS Isolator column. Restek Ultra C18 5µm, 10 x 2.1mm, two aligned in series. These are plumbed between the pump's mixing valve and the autosampler to minimized the HPLC-based PFAS background from injection-based PFAS.

7.0 <u>Reagents and Standards</u>

7.1 Reagents

All reagents must follow traceability guidelines found in SOP BR-QA-002.

- Ammonium acetate Stock Solution, 400mM in 90/10 reagent water/MeOH. Prepare by adding 30.8g of ammonium acetate to 1L of 90/10 water/MeOH. The methanol is added to retard bacterial growth.
- 20mM ammonium acetate eluent.. Prepare by diluting the 400mM 20-fold in 90/10 water/MeOH (Ex. add 15mL of ammonium acetate stock to 385mL of 90/10 water/MeOH).

- Ammonium hydroxide, concentrated, JT Baker or equivalent.
- Ammonium hydroxide (NH_4OH) (0.3% in methanol). Prepare by adding 3 mL of NH_4OH to 1 L of Methanol. Volume prepared may be adjusted based on usage/need.
- Potassium hydroxide pellets, 87% purity, JT Baker P250-1 or equivalent.
- Potassium hydroxide (KOH), 0.4% in methanol. Prepare by mixing 18g of potassium hydroxide into 4 L of methanol.
- Reagent Water, house reverse-osmosis reagent water ("PFAS-Free" via in-house testing).
- Hexane, Ultra-Resi Analyzed, JT Baker or equivalent.
- Methanol, HPLC JT Baker or equivalent.
- Sodium hydroxide, pellets, JT Baker or equivalent.
- Sodium hydroxide (NaOH), 0.1N, in water. Prepare by adding 4g of NaOH to 1 L water.
- Acetonitrile, Optima Grade, Fisherbrand or equivalent.

7.2 Standards

Purchase high purity, technical grade solids (96% or greater) or certified solutions from commercial vendors. Standard materials are verified compared to a second source material at the time of initial calibration. The solid stock material is stored at room temperature or as specified by the manufacturer or vendor. If solid material is used for preparing a standard, stock standard solutions are prepared from the solids and are stored at 4 ± 2°C. Stock standard solutions should be brought to room temperature before using. Standards are monitored for signs of degradation or evaporation. Standard solutions must be replaced at least annually from the date of preparation.

Per the Certificate of Analysis for labeled perfluorohexadecanoic acid (13C2-PFHxDA) produced by Wellington Laboratories, the stock standard contains ~0.3% of native PFHxDA. This equates to roughly 0.30 ng/L or 0.015 ug/Kg of PFHxDA expected in all samples and blanks.

As of this writing, only PFOS, PFOA, PFHxS, MeFOSAA and EtFOSAA are commercially available as technical mixtures. These reference standards of the technical mixtures for these specific PFAS are used to ensure that all appropriate peaks are included during peak integration.

PFBS, PFHxS, PFHpS, PFOS, PFDS, and many other PFAS are not available in the acid form, but rather as their corresponding salts, such as sodium or potassium. The standards are prepared and corrected for their salt content according to the equation below.

$$Mass_{acid} = \text{Measured } Mass_{salt} \times MW_{acid} / MW_{salt}$$

Where: MW_{acid} is the molecular weight of PFAA

MW_{salt} is the molecular weight of the purchased salt.

For example, the molecular weight of PFOS is 500.1295 and the molecular weight of NaPFOS is 523.1193. Therefore, the amount of NaPFOS used must be multiplied by a factor of 0.956 to account for the amount of PFOS in the final solution.

While PFAS standards commercially purchased are supplied in glass ampoules, all subsequent transfers or dilutions performed by the analyst must be prepared and stored in polypropylene or HDPE containers.

Prepare calibration and working standards by diluting a known volume of stock standard in an appropriate solvent to the final volume needed to achieve the desired concentration. The

recommended formulation for each standard used in this procedure is provided in Appendix B along with the recommended source materials, expiration dates and storage conditions.

A technical (qualitative) grade PFOA standard is analyzed initially, then after initial calibration when a new column is installed or when significant changes are made to the HPLC parameters. This solution is used as a reference for the PFOA isomers (branched and linear) retention times.

A second source solution for PFAS is purchased from the same vendor; the PFC-MXB contains most of the target analytes in this mixture and is used as an ICV. For those compounds not available in this mixture or are not available from another vendor, a second analyst may prepare a second source standard from the same source as the ICAL to produce an ICV. The recommended concentration of the ICV standard should be in the mid-range of the calibration curve. The concentration may be adjusted if the initial calibration levels are changed or altered. The IDA and ISTD are added at a fixed concentration (2.5 ng/mL in extract).

7.3 Extraction Spiking Solutions

PFAS LCS/Matrix Spike Solution, 400 ng/mL

The PFAS spike solution is prepared by diluting all PFAS to produce a solution containing each PFAS at a concentration of 400 ng/mL in methanol.

PFAS High Level LCS Solution, 1000 ng/mL

The PFAS spike solution is prepared by diluting all PFAS to produce a solution containing each PFAS at a concentration of 1000 ng/mL in methanol.

PFAS Isotope Dilution Analyte Solution, 500 ng/mL

The PFAS-IDA solution is prepared by diluting all labeled PFAS to produce a solution containing each IDA compound at a concentration of 1000 ng/mL in methanol.

Internal Standard Solution, $^{13}C_2$-PFOA, 1250 ng/mL

The internal standard solution is prepared by diluting the stock 50 µg/mL $^{13}C_2$-PFOA 20-fold in methanol.

See Appendix B for analyte lists and concentrations.

8.0 Sample Collection, Preservation, Shipment and Storage

The laboratory does not perform sample collection so these procedures are not included in this SOP, sampling requirements may be found in the published reference method.

Sample container, preservation techniques and holding times may vary and are dependent on sample matrix, method of choice, regulatory compliance, and/or specific contract or client requests. Listed below are the holding times and the references that include preservation requirements.

Matrix	Sample Container	Minimum Sample Size	Preservation	Holding Time[1]	Reference
Water	250 mL HDPE Bottle	250 mL	0-6°C, Trizma (5g/L) (if from a known	14 days from collection	Method 537

			chlorinated source)		
Soil/Sediment	4/8 oz HDPE wide-mouth container	100 g	0-6°C	14 days from collection	SW-846 Organic Methods
Extract	700 µL Polypropylene (PP) Vial with HDPE Screw cap	NA	0-6°C	40 days from extraction (28 days from extraction for samples collected in NJ)	NJDEP guidance

[1]*Extraction holding time is calculated from date of collection. Analytical holding time is determined from date of extraction.*

Unless otherwise specified by client or regulatory program, after analysis, samples and extracts are retained for a minimum of 30 days after provision of the project report and then disposed of in accordance with applicable regulations.

9.0 Quality Control

Sample QC

When samples contain the preservative Trizma, all associated QC must be treated with the same preservative.

Initial Demonstration of Capability (IDOC) and Method Detection Limit (MDL) studies described in Section 12 must be acceptable before analysis of samples may begin.

Batches are defined at the sample preparation step. Batches should be kept together through the whole analytical process as far as possible, but it is not mandatory to analyze prepared extracts on the same instrument or in the same sequence.

The laboratory prepares the following sample QC for each extraction batch (an extraction batch is limited to a maximum of 20 field samples of the same matrix processed using the same procedure and reagents within the same time period):

QC Item	Frequency	Acceptance Criteria
Method Blank (MB)	1 per extraction batch	See Table 3
Laboratory Control Sample (LCS)	1 per extraction batch (Spiking Level rotates between Low, Medium and High on a batch-by-batch basis)	See Table 3
LCS Duplicate (LCSD)	1 per extraction batch whenever insufficient sample is available for an MS/MSD/DU	See Table 3
*Matrix Spike (MS/MSD)	1 per extraction batch (if sufficient sample is available)	See Table 3
*Sample Duplicate (SD)	DW-1 per extraction batch (if sufficient sample is available); Non-DW matrices- client request	See Table 3

	if sufficient sample is available	
Field Reagent Blank, FRB	Per client set of samples	See Table 3

*An NCM must be applied if there is insufficient volume for a MS/MSD or duplicate.

Instrument QC

The following instrument QC is performed:

QC Item	Frequency	Acceptance Criteria
Initial Calibration (ICAL)	Initially, when CCV fails and after major instrument maintenance	See Table 3
Initial Calibration Blank (ICB)	Immediately after ICAL	See Table 3
Second Source Verification (ICV)	Immediately after ICB	See Table 3
Continuing Calibration Verification (CCV)	Beginning, end and after every 10 field samples. Alternate between ICAL Levels 4 and 5 (in order) throughout sequence	See Table 3
Continuing Calibration Verification Low (CCVL)	Immediately prior to Level 4 CCV at beginning of every non-ICAL analytical sequence	See Table 3
Isotope Dilution Analytes (IDA)	Added to Every injection (Standards, QC and Field Samples) at the same concentration	See Table 3

10.0 Procedure

One-time procedural variations are allowed only if deemed necessary in the professional judgment of a supervisor to accommodate variation in sample matrix, chemistry, sample size, or other parameters. Any variation in procedure shall be completely documented using a Non-Conformance Memo (NCM). The NCM process is described in more detail in SOP BR-QA-016. The NCM shall be filed in the project file and addressed in the case narrative. ***Any deviations from this procedure identified after the work has been completed must be documented in an NCM, with a cause and corrective action described.***

10.1 Water Sample Preparation

Visually inspect samples for the presence of settled and/or suspended sediment. If the amount of sediment is so great that the SPE cartridge will clog before the majority of the sample has eluted, filter the water sample through a glass fiber filter (Whatman GF/F Cat No 1825 090 or equivalent). Gravity or vacuum can be used to pass the sample through the filter. Prepare a filtration blank and LCS with any samples requiring filtration. File an NCM noting the need for filtration.

> Warning: The use of a vacuum system creates the risk of glassware implosion. Inspect all glassware prior to use. Glassware with chips, scratches, rub marks or cracks must not be used.

Due to the high surface activity of the analytes, filtration should be regarded as a last resort. All samples will be spiked with IDA prior to filtration (if enough sample is available, perform an MS on each sample); this will allow any losses caused by filtration to be monitored and corrected for.

NOTE: for samples which full volume extraction is not possible, care MUST be taken to ensure the actual sample volume that is both spiked and extracted are documented in the sample worksheet notes.

Prepare two 250 mL aliquots of HPLC-grade water for the method blank and LCS.

Rotate the LCS concentration with each batch.

-Low Level LCS (50-150 %R), spike with 0.50 mL of PFAS LOQV solution. This will result in sample concentrations at the method Reporting Limit.

-Medium Level LCS (70-130 %R), spike with 0.025 mL (25 µL) of the PFAS LCS/Matrix Spike solution (Section 7.2). This will result in a sample concentration of 40 ng/L.

-High level LCS (70-130 %R), spike at 0.05mL (50uL) of the PFAS High Level LCS Spike solution (Section 7.2). This will result in a sample concentration of 200 ng/L.

Spike the MS/MSD (if available volume) with 0.025 mL (25 µL) of the PFAS LCS/Matrix Spike solution (Section 7.2). This will result in a sample concentration of 40 ng/L. NCM if there is insufficient volume to perform the MS/MSD.

Add 0.025 mL (25 µL) of the PFAS-IDA solution (Section 7.2) into each sample and QC sample, for a fixed concentration of 1.25 ng/mL in extract.

Due to the surface active nature of the PFAS analytes, it is necessary to extract the entire sample as well as the container walls to maximize recovery. It is therefore ideal to receive full 250 mL HDPE bottles for each sample (and MS/MSD if sufficient volume is received) so the entire sample can be processed from that container.

Weigh each container to determine its pre-extraction mass (Gross Weight). Spike each container in the batch with PFAS-IDA solution. Spike the LCS and LCSD (or MS/MSD, if available volume) with PFAS LCS/Matrix solution. Shake to mix the contents. After the extraction has been completed, allow the container to completely dry (uncapped). Replace the cap and reweigh the container to determine the container mass (Tare Weight). The sample volume extracted can be determined by subtracting the Tare Weight from the Gross Weight. These calculations are captured in the PFAS water sample prep module (TALS Method 3535_IVWT and 25101_2009_SPE).

10.1.1 Solid Phase Extraction (SPE) of Aqueous Samples

Condition the SPE cartridges (Waters WAX, 500 mg/6 cc) by passing the following without drying the column.

> **WARNING: The use of a vacuum system creates the risk of glassware implosion. Inspect all glassware prior to use. Glassware with chips, scratches, rub marks or cracks must not be used.**

Wash with 5.0 mL of 0.3% NH_4OH/methanol.

Wash with 5.0 mL of 0.1N NaOH/water. Close valve when ~ 1 mL remains on top to keep column wet. After this step, the columns should not go dry until the completion of loading and rinsing samples.

Appropriately label the SPE cartridges.

Add a poly siphon line to an adapter which has been firmly inserted into the SPE cartridge and place the other end of the line into the corresponding sample container.

Turn on the vacuum and pull the entire sample volume (minimum of 250 mL) through the cartridge at rate of approximately 2 to 5 drops per second (6-15 mL/minute).

Stop the sample elution when ~0.1 mL remains. Add ~5 mL of water to the SPE column and restart the elution to complete the loading process. The added water volume ensures there are no small sample droplets remaining that may be clinging to the wall of the SPE cartridge.

After the sample and water rinse has passed through the cartridge, allow the cartridge to completely dry with vacuum (this could take up to 90 minutes). The cartridge should return to a uniform color. NOTE: Remove and replace each cartridge during the drying process to ensure any water droplets that may be in the flow path are eliminated.

10.1.2 SPE Column Wash of Aqueous Samples with Hexane

Add 5 mL of hexane to each SPE column and let the column become fully saturated with solvent. Close the stopcock and allow the column to soak for five minutes, then elute to waste.

Load a second 5 mL of hexane and elute to waste (without a soaking period).

Allow the column to dry with vacuum for 5 to 10 minutes. Columns must be dried thoroughly before continuing. The cartridge should return to a uniform color. Wipe any remaining water droplets from the bottom of the stainless steel guide needles using a fresh Kimwipe for each needle prior to proceeding to the next step.

10.1.3 SPE Elution of Aqueous Samples

Note: The use of glass should be avoided where able. However, disposable glass pipettes have a much narrower opening, which is necessary to reduce spillage during the following transfer steps.

Place labeled 15 mL polypropylene test tubes containing 2 mL of Reagent Water as receiving tubes in the SPE manifold.

Rinse the dried sample bottles with 5 mL of 0.3% NH_4OH/methanol and transfer to the corresponding SPE cartridge using a disposable glass pipet (NOTE: the sample container has molded ridges in the neck that can trap up to 0.5mL of the solvent rinsate; make sure to tip the container slightly to draw the rinsate out of the ridges). Allow the solution to soak the cartridge for 5 minutes and then elute into the 15 mL collection tube.

Repeat the sample bottle rinse to cartridge elution process with a 4 mL of 0.3% NH_4OH/methanol (without the soaking period). The total collection should be approximately 10 mL. Adjust to 10 mL with methanol.

10.1.4 Sample Cleanup with Graphitized Carbon (Optional)

Note: If this step is to be performed, do not add the 2 mL of reagent water to the receiving tubes prior to extract collection. Add 100 mg of graphitized carbon to each sample extract and QC extracts to aid in the removal of organic interferences. Shake vigorously and then let sit for 10 minutes. Centrifuge each sample for 2 minutes at 1000 rpm. Decant the solvent layer into a new 15mL centrifuge tube containing 2 mL of Reagent Water and swirl to mix. Adjust the volume to 10 mL with methanol.

10.1.5 Internal Standard Addition

Add 10µL of 1250 ng/mL internal standard to each extract and vortex to mix well.

Transfer a portion of the extract to a labeled 300µL polypropylene autosampler vial (6 drops or approximately 60µL). Archive the rest of the extract in the event the sample needs re-injection and/or dilution.

Seal the vials with polyethylene screw caps. Note: Teflon lined caps may not be used due to detection of low level concentration of PFAS.

10.2 Soil Sample Preparation

Visually inspect soil samples for homogeneity. Weigh a representative 5 g aliquot of soil, sediment or 1 g of tissue sample into a 50 mL centrifuge tube. Weigh additional sample amounts for the matrix spike and matrix spike duplicate analyses if they are requested and enough sample mass is available. Weigh 5 g aliquots of Ottawa sand or 0.1 g of oil for the MB and LCS samples.

Spike the LCS and MS/MSD (if requested) with 25 µL LCS/Matrix Spike Solution. This will result in a sample concentration of 2.0 ng/g (1.0 ng/mL ext).

Add 25 µL of IDA PFC Spiking Solution into each sample and QC sample, for a fixed concentration of 1.25 ng/mL in the final sample vial.

Cap the sample tubes and allow the spikes to settle into the sample matrix. Gently shake the bottles to mix the spike into the matrix.

Add 20mL of 0.4% KOH/methanol to each sample. Cap each sample and shake lightly to confirm container is sealed.

Place all samples in the prep batch into the TCLP tumbler and tumble for 3 hours.

After removing the samples from the tumbler, gently shake each container to confirm the solid material has settled to the bottom of the centrifuge tube, then place in a sonic bath for 12 hours.

Centrifuge each sample at 3500 rpm for 15 minutes.

Transfer the supernate (solvent) to a second, labeled 50 mL centrifuge tube containing 2 mL of Reagent Water.

Slowly add 2 mL of 0.4% KOH/methanol to original 50 mL extraction tube. Pour the 2 mL of solvent rinse into the second labeled tube to complete the quantitative transfer.

Place extracts in the ZipVap set to 60 C for ~3 hours with nitrogen flow just strong enough to gently ripple the surface of the extracts. The concentration step is complete when the final volume either gets below 2 mL or maintains at the same level after consecutive checks a 5 minute intervals (this may be due to sample-based moisture contributing to the amount of water in the extract). Remove the sample from the ZipVap when the concentration has completed and allow the extracts to cool.

Adjust the volume of each sample's extract to 15 mL with Reagent Water and add 75 uL of Glacial Acetic Acid to neutralize the solution to pH 6-8. If the extracts contain suspended solids, centrifuge them at 3500 rpm for 15 minutes.

10.2.1 Solid Extract Cleanup by SPE

Condition the SPE cartridges (Waters WAX, 150 mg/6 cc) by passing the following without drying the column.

Wash with 5 mL of 0.3% NH_4OH/methanol. Wash with 5 mL of 0.1N NaOH/water. Wash with a second 5mL aliquot of 0.3% NH_4OH/methanol followed by a second 5 mL aliquot of 0.1N NaOH/water. Close valve when ~ 0.5 mL remains on top to keep column wet. After this step, the columns should not go dry until the completion of loading and rinsing samples.

Appropriately label the SPE cartridges.

Pour each aqueous sample extract into its corresponding SPE cartridge until it is filled. Turn on the vacuum and open the stopcock to load the sample onto the cartridge. Add the remaining extract to the cartridge before it goes dry and stop the flow just before all of the sample has been drawn into the media. Add 6 mL of Reagent Water to the 50 mL centrifuge tube to rinse the tube and complete the quantitative transfer. Pour this rinse into the SPE cartridge and open the stopcock to load the rest of the rinsate onto the cartridge. The added water volume ensures there are no small sample droplets remaining that may be clinging to the wall of the SPE cartridge. Set the centrifuge tubes aside and allow them to completely dry.

After the sample and water rinse has passed through the cartridge, allow the cartridge to completely dry with vacuum (this could take up to 30 minutes). The cartridge should return to a uniform color. NOTE: Remove and replace each cartridge during the drying process to ensure any water droplets that may be in the flow path are eliminated.

10.2.2 SPE Column Wash of Solid Extracts with Hexane

Add 5 mL of hexane to each SPE column and let the column become fully saturated with solvent. Close the stopcock and allow the column to soak for five minutes, then elute to waste.

Load a second 5 mL of hexane and elute to waste (without a soaking period).

Allow the column to dry with vacuum for 5 to 10 minutes. Columns must be dried thoroughly before continuing. The cartridge should return to a uniform color. Wipe any remaining water droplets from the bottom of the stainless steel guide needles using a fresh Kimwipe for each needle prior to proceeding to the next step.

10.2.3 SPE Elution of Solid Extracts

Place labeled 15 mL polypropylene test tubes containing 2 mL of Reagent Water as receiving tubes in the SPE manifold.

Rinse the dried sample tubes with 4 mL of 0.3% NH_4OH/methanol and transfer to the corresponding SPE cartridge. Allow the solution to soak the cartridge for 5 minutes and then elute into the 15 mL collection tube.

Repeat sample bottle rinse to cartridge elution process with 4 mL of 0.3% NH_4OH/methanol (without the soaking period) The total collection should be approximately 10 mL. Adjust to 10 mL

with methanol.

10.2.4 Sample Cleanup with Graphitized Carbon (Optional)

Note: If this step is to be performed, do not add the 2 mL of reagent water to the receiving tubes prior to extract collection. Add 100 mg of graphitized carbon to each sample extract and QC extracts to aid in the removal of organic interferences. Shake vigorously and then let sit for 10 minutes. Centrifuge each sample for 2 minutes at 1000 rpm. Decant the solvent layer into a new 15mL centrifuge tube containing 2 mL of Reagent Water and swirl to mix. Adjust the volume to 10 mL with methanol.

10.2.5 Internal Standard Addition

Add 10µL of 1250 ng/mL internal standard to each extract and vortex to mix well.

Transfer a portion of the extract to a labeled 300µL polypropylene autosampler vial (6 drops or approximately 60µL). Archive the rest of the extract in the event the sample needs re-injection and/or dilution.

Seal the vials with polyethylene screw caps. Note: Teflon lined caps may not be used due to detection of low level concentration of PFAS.

10.3 Instrument Operating Conditions

Suggested operating conditions are listed below for the SCIEX LCMS system:

Recommended Instrument Operating Conditions					
HPLC Conditions (Shimadzu HPLC)					
Column (Column temp = 45°C)	Phenomenex Gemini C18 3um, 3.0mm x 100mm				
Mobile Phase Composition	A=20mM Ammonium Acetate (90/10 water/methanol) B=Methanol				
Gradient Program	**Time**	**%A**	**%B**	**Curve**	**Flow Rate mL/min.**
	0.00	100	0	6	0.60
	0.10	50	50	6	0.60
	4.00	0	100	6	0.60
	5.9	0	100	6	0.60
	5.95	100	0	6	0.60
	7.05	100	0	6	0.60
	Maximum pressure limit = 5,000 psi				
Injection Size	20 µL (fixed amount throughout the sequence)				
Run Time	8 minutes (includes autosampler load and inject times)				
Mass Spectrometer Interface Settings (Sciex 5500 QQQ)					
MS Interface Mode	ESI Negative Ion				
Ionspray (volts)	-4500				
Declustering Potential-DP (volts)	Varies from -10 to -160				
Entrance Potential-EP (volts)	Varies from -5 to -11				

Source Temp (TEM)	600ºC
Curtain Gas (CUR)	35 psi
Collision Gas (CAD)	9 psi
Ion Source Gas 1 (GS1)	60 psi
Ion Source Gas 2 (GS2)	60 psi
Collision Energy-CE (volts)	Varies from -12 to -130
Collision Cell Exit Potential-CXP (volts)	Varies from -5 to -54

Recommended Instrument Operating Conditions							
Mass Spectrometer Scan Settings (Sciex 5500 QQQ)							
Compound	Comments	Reaction (MRM)	Dwell (sec)	DP(v)	EP(v)	CE(v)	CXP(v)
PFBA	Native analyte	212.9 > 169.0	0.011	-25	-5	-12	-31
13C4 PFBA	IDA	217.0 > 172.0	0.011	-25	-5	-12	-31
PFPeA	Native analyte	262.9 > 219.0	0.011	-20	-7	-12	-34
13C5 PFPeA	IDA	267.9 > 223.0	0.011	-20	-7	-12	-35
PFBS	Native analyte	298.9 > 80.0	0.011	-55	-6	-58	-37
PFBS_2	Native analyte	298.9 > 99.0	0.011	-55	-5	-40	-12
13C3 PFBS	IDA	301.9 > 80.0	0.011	-55	-6	-58	-37
PFHxA	Native analyte	313.0 > 269.0	0.011	-25	-5	-12	-37
PFHxA_2	Native analyte	313.0 > 119.0	0.011	-25	-5	-28	-10
13C2 PFHxA	IDA	315.0 > 270.0	0.011	-25	-5	-12	-38
4:2FTS	Native analyte	327.0 > 307.0	0.011	-50	-7	-32	-10
M2-4:2FTS	IDA	329.0 > 81.0	0.011	-50	-7	-80	-10
PFPeS	Native analyte	349.0 > 80.0	0.011	-57	-9	-66	-40
PFPeS_2	Native analyte	349 > 99.0	0.011	-57	-9	-45	-12
HFPO-DA	Native analyte	329.1 > 285	0.011	-48	-10	-6	-17
13C3 HFPO-DA	IDA	332.1 > 287	0.011	-40	-10	-10	-17
PFHpA	Native analyte	363.0 > 319.0	0.011	-25	-6	-12	-41
PFHpA_2	Native analyte	363.0 > 169.0	0.011	-25	-6	-20	-10
13C4 PFHpA	IDA	367.0 > 322.0	0.011	-25	-6	-12	-41
PFHxS	Native analyte	399.0 > 80.0	0.011	-60	-12	-74	-43
PFHxS_2	Native analyte	399.0 > 99.0	0.011	-60	-12	-50	-12
18O2 PFHxS	IDA	403.0 > 84.0	0.011	-60	-12	-74	-43
DONA	Native analyte	377 > 251	0.011	-55	-10	-16	-17
DONA_2	Native analyte	377 > 85	0.011	-55	-10	-35	-17
PFOA	Native analyte	413.0 > 369.0	0.011	-25	-6	-14	-44
PFOA_2	Native analyte	413.0 > 169.0	0.011	-25	-5	-22	-12
13C2 PFOA	Internal Std	415.0 > 370.0	0.011	-25	-6	-14	-44
13C4 PFOA	IDA	417.0 > 372.0	0.011	-25	-6	-14	-44
6:2FTS	Native analyte	427.0 > 407.0	0.011	-50	-7	-32	-10
M2-6:2FTS	IDA	429.0 > 81.0	0.011	-50	-7	-90	-10
PFHpS	Native analyte	449.0 > 80.0	0.011	-65	-11	-88	-46
PFHpS_2	Native analyte	449.0 > 99.0	0.011	-65	-11	-50	-12
PFNA	Native analyte	463.0 > 419.0	0.011	-25	-6	-14	-47
PFNA_2	Native analyte	463.0 > 169.0	0.011	-25	-6	-24	-47

13C5 PFNA	IDA	468.0 > 423.0	0.011	-25	-6	-14	-48
PFOS	Native analyte	499.0 > 80.0	0.011	-65	-9	-108	-50
PFOS_2	Native analyte	499.0 > 99.0	0.011	-65	-5	-58	-12
9Cl-PF3ONS	Native analyte	531 > 351	0.011	-120	-10	-30	-17
13C4 PFOS	IDA	503.0 > 80.0	0.011	-65	-9	-108	-50
PFDA	Native analyte	513.0 > 469.0	0.011	-25	-6	-16	-51
PFDA_2	Native analyte	513.0 > 169.0	0.011	-25	-6	-26	-12
13C2 PFDA	IDA	515.0 > 470.0	0.011	-25	-6	-16	-51
8:2FTS	Native analyte	527.0 > 507.0	0.011	-50	-7	-40	-15
M2-8:2FTS	IDA	529.0 > 81.0	0.011	-50	-7	-90	-15
PFNS	Native analyte	549.0 > 80.0	0.011	-75	-10	-113	-52
PFNS_2	Native analyte	549.0 > 99.0	0.011	-75	-8	-71	-12
MeFOSAA	Native analyte	570 > 419.0	0.011	-40	-7	-36	-15
d3-MeFOSAA	IDA	573.0 > 419.0	0.011	-40	-7	-36	-15
11Cl-PF3OUdS	Native analyte	631 > 451	0.011	-160	-10	-40	-17
FOSA	Native analyte	498.0 > 78.0	0.011	-60	-8	-85	-50
13C8 FOSA	IDA	506.0 > 78.0	0.011	-60	-8	-85	-50
PFUdA	Native analyte	563.0 > 519.0	0.011	-25	-7	-18	-54
PFUdA_2	Native analyte	563.0 > 169.0	0.011	-25	-7	-28	-12
13C2 PFUdA	IDA	565.0 > 520.0	0.011	-25	-7	-18	-54
EtFOSAA	Native analyte	584.0 > 419.0	0.011	-50	-7	-36	-15
d5-EtFOSAA	IDA	589.0 > 419.0	0.011	-50	-7	-36	-15
PFDS	Native analyte	599.0 > 80.0	0.011	-85	-11	-118	-54
PFDS_2	Native analyte	599.0 > 99.0	0.011	-85	-11	-84	-54
PFDoA	Native analyte	613.0 > 569.0	0.011	-25	-5	-18	-54
PFDoA_2	Native analyte	613.0 > 169.0	0.011	-25	-5	-30	-12
13C2 PFDoA	IDA	615.0 > 570.0	0.011	-25	-5	-18	-54
10:2FTS	Native analyte	627 > 607	0.011	-110	-7	-38	-5
PFDoS	Native analyte	699 > 80	0.011	-10	-11	-76	-11
PFDoS_2	Native analyte	699 > 99	0.011	-10	-11	-130	-5
PFTrDA	Native analyte	663.0 > 619.0	0.011	-25	-7	-20	-54
PFTrDA_2	Native analyte	663.0 > 169.0	0.011	-25	-7	-36	-12
PFTeDA	Native analyte	713.0 > 669.0	0.011	-25	-7	-22	-10
PFTeDA_2	Native analyte	713.0 > 169.0	0.011	-25	-7	-36	-30
13C2 PFTeDA	IDA	715.0 > 670.0	0.011	-25	-7	-22	-54
PFHxDA	Native analyte	813 > 769	0.011	-25	-7	-24	-54
PFHxDA_2	Native analyte	813 > 169	0.011	-25	-7	-38	-12
13C2 PFHxDA	IDA	815 > 770	0.011	-25	-7	-24	-54
PFODA	Native analyte	913 > 869	0.011	-25	-7	-26	-54
PFODA_2	Native analyte	913 > 169	0.011	-25	-7	-40	-12

Recommended Instrument Operating Conditions				
Retention Times & Quantitation (Shimadzu LC/Sciex 5500 QQQ)				
Native Compounds	**Typical Native RT (minutes)**	**IS analog**	**Typical IDA RT (minutes)**	**Quantitation Method**
PFBA	1.64	13C4 PFBA	1.64	Isotope Dilution
PFPeA	1.99	13C5 PFPeA	1.99	Isotope Dilution
PFBS	2.01	13C3 PFBS	2.01	Isotope Dilution
4:2FTS	2.33	M2-4:2FTS	2.33	Internal Standard
PFHxA	2.36	13C2 PFHxA	2.36	Isotope Dilution
PFPeS	2.38	13C3 PFBS	2.01	Internal Standard
HFPO-DA	2.38	13C3 HFPO-DA	2.38	Isotope Dilution
PFHpA	2.75	13C4 PFHpA	2.75	Isotope Dilution
PFHxS	2.75	18O2 PFHxS	2.75	Isotope Dilution
DONA	2.80	13C4 PFOS	3.51	Internal Standard
6:2FTS	3.13	M2-6:2FTS	3.13	Isotope Dilution
PFOA	3.15	13C4 PFOA	3.15	Isotope Dilution
PFHpS	3.13	13C4 PFOS	3.51	Internal Standard
PFNA	3.53	13C5 PFNA	3.53	Isotope Dilution
PFOS	3.51	13C4 PFOS	3.51	Isotope Dilution
9Cl-PF3ONS	3.69	13C4 PFOS	3.51	Internal Standard
8:2FTS	3.87	M2-8:2FTS	3.87	Isotope Dilution
PFDA	3.86	13C2 PFDA	3.86	Isotope Dilution
PFNS	3.84	13C4 PFOS	3.51	Internal Standard
MeFOSAA	4.01	d3-MeFOSAA	4.01	Isotope Dilution
11Cl-PF3OUdS	4.13	13C4 PFOS	3.51	Internal Standard
EtFOSAA	4.14	d5-EtFOSAA	4.14	Isotope Dilution
PFDS	4.11	13C4 PFOS	3.51	Internal Standard
PFUdA	4.14	13C2 PFUdA	4.14	Isotope Dilution
FOSA	3.92	13C8 FOSA	3.92	Isotope Dilution
PFDoA	4.37	13C2 PFDoA	4.37	Isotope Dilution
10:2FTS	4.40	M2-8:2FTS	3.87	Internal Standard
PFDoS	4.55	13C4 PFOS	3.51	Internal Standard
PFTrDA	4.59	13C2 PFTeDA	4.37	Internal Standard
PFTeDA	4.78	13C2 PFTeDA	4.78	Isotope Dilution
PFHxDA	5.18	13C2 PFHxDA	5.18	Isotope Dilution
PFODA	5.59	13C2 PFHxDA	5.18	Internal Standard

Note: clients must be notified when the quantitation of an analyte is performed using an Internal standard. Changes to these IDA/ISTD associations may be necessary when sources of IDAs are updated: this may include additions as new IDAs become available, or subtractions if IDAs are unavailable.

10.4 Instrument Tuning

Instrument tuning is done initially when the method is first developed and thereafter as needed to maintain the sensitivity and selectivity of the method. Tuning is done by infusing each individual compound (native and IDA) into the MS/MS electrospray probe. The responses for the parent and daughter ions for each compound are observed and optimized for sensitivity and resolution. Mass assignments are reviewed and calibrated if necessary. The mass assignments must be within ± 0.5 amu of the values shown in the table above.

10.5 Instrument Calibration

Perform initial calibration with a minimum of five calibration standards before any sample analysis (initial method set-up), whenever a new column is installed, when significant instrument maintenance has been performed, and when the CCV does not meet acceptance criteria. Significant instrument maintenance includes installing a new column, changing the proportioning valve, or changing components of the MS/MS system. A new calibration is not required following minor maintenance.

With the exception of the circumstances delineated in policy CA-Q-P-003, it is not acceptable to remove points from a calibration curve. In any event, at least five points must be included in the calibration curve. Average Response Factor and linear fit calibrations require five points, whereas Quadratic (second order) calibrations require six points. The same injection volume must be used for all injections (standards and extracts).

Calibration is by average response factor, linear fit, or by quadratic fit. Quadratic fit is used for the analyte if the response is non-linear; it's use requires a minimum of 6 calibration standards.

For average response factor (RFa), the relative standard deviation (RSD) for all compounds quantitated by isotope dilution must be < 20% for the curve to be valid.

For average response factor (RFa), the relative standard deviation (RSD) for all compounds quantitated by internal standard (i.e. those compounds that do not have corresponding isotopically labeled analogs) must be < 25% for the curve to be valid.

For linear fit, the intercept of the line must be less than ½ the reporting limit, and the coefficient of determination (r2) must be greater than or equal to 0.990 for the curve to be considered valid (or the correlation coefficient (r) > 0.995).

Evaluation of Calibration Curves

The following requirements must be met for any calibration to be used:

-Response must increase with increasing concentration.

-The absolute value of the intercept of a regression line (linear or non-linear) at zero response must be less than the reporting limit.

-There should be no carryover at or above 1/2 MRL after a high CAL standard.

-The low cal. point must recover to within 50-150%, and all others must recover to within 70-130%.

If these criteria are not met, instrument conditions and standards will be checked, and the ICAL successfully repeated before continuing.

Weighting of Calibration Points

In linear and quadratic calibration fits, the points at the lower end of the calibration curve have less absolute variance than points at the high concentration end of the curve. This can cause severe errors in quantitation at the low end of the calibration. Because accuracy at the low end of the curve is very important for this analysis, it is preferable to increase the weighting of the lower concentration points. 1/concentration or 1/x weighting is encouraged. Visual inspection of the line fitted to the data is important in selecting the best fit.

10.6 Initial Calibration

Prepare the working calibration standards using the recommended formulations given in Appendix B ensuring the lowest calibration standard for each analyte is equal to or below the established RL. Unless otherwise specified on a project basis, use calibration levels 1 to 6 to establish the calibration curve for each analyte.

Prime the instrument by analyzing a minimum of 4 “primer” solutions consisting of 80/20 methanol/water. In general, an HPLC contains components made from PTFE, which enable the pumps to work with many types of organic solvents. Despite efforts to remove as much PTFE as possible, certain components cannot be replaced and contribute PFAS. The longer the system remains idle, the more PFAS that is yielded. Therefore these primers serve to reduce and stabilize the amount of PFAS that are contributed. Immediately following the primers is a Blank, the ICAL sequence (run in ascending order of Level 1 to Level 6), the ICB, the ICV and the first analytical window of extracts (up to 10 field samples). The data is acquired using Sciex’s Analyst 1.6.

The Chrom Review data system generates calibration data by generating relative response factors (RRFs) based on the response of the target analyte and its corresponding Isotope Dilution Analyte (or Internal Standard) as well as their injection concentrations to ultimately generate Mean Response Factors. All analytes calibrated using IDA must have RSD values < 20%, all analytes calibrated using ISTD must have RSD values < 25%. The IDA compounds are also calibrated using an external RF model using response and concentration. The IDA RSD must be < 50%. Alternatively, a linear regression curve of concentration vs. peak area for each analyte relative to their corresponding IDA/ISTD and their concentrations calculates the correlation coefficient with 1/concentration weighting. The calibration must have a correlation coefficient (r) $\geq$ 0.995 ($r^2 \geq 0.990$). If criteria are not met, correct the problem and repeat calibration. Further analysis may not proceed without valid calibration.

10.7 Initial Calibration Blank (ICB)

Immediately following the ICAL, a calibration blank is analyzed that consists of an injection of 80:20 methanol:water blank fortified with IDA solution at 50 ng/mL

The result for the calibration blank must be less than the reporting limit.

If the ICB is greater than the reporting limit then the source of contamination must be identified and any necessary cleaning completed, and then the instrument should be recalibrated.

10.8 Second Source Calibration Verification (ICV)

Following the ICAL and the ICB, an ICV standard obtained from a different source or vendor than the ICAL standards is analyzed. This ICV standard is a mid-range standard.

The recovery for the ICV must meet the appropriate following criteria:

The native analyte must be within or equal to 70-130% for all native analytes quantitated by isotope dilution.

The native analyte must be within or equal to 70-130% for all native analytes quantitated by internal standard (i.e. those compounds that do not have corresponding isotopically labeled analogs).

The IDA recovery must be within or equal to 50-150%.

See Table 3 for corrective actions in the event that the ICV does not meet the criteria above.

10.9 Continuing Calibration Verification (CCV)

Analyze a CCV at the beginning of a run, the end of a run, and after every 10 samples to determine if the calibration is still valid. The exception is after an acceptable curve and ICV are run 10 samples can be analyzed before a CCV is required. The CCVs are usually at the mid-level range of the curve and should vary throughout the run. The curve and ICV do not need to be run every day. To start an analytical run a CCV can be analyzed and if it meets acceptance criteria a run can be started. In addition, the low standard in the curve must be analyzed and must be within ± 50% of the expected value.

The recovery for the CCV standards must be equal to or within 70-130% (50-150% for low level standards) for all natives quantitated by isotope dilution and for all natives quantitated by internal standard. The recovery for the IDA must be within or equal to 70-130% of the true value.

If this is not achieved, the instrument has drifted outside the calibration limits. If the CCV fails again following minor maintenance, the instrument must be recalibrated.

10.10 Isotope Dilution Analytes (IDA)

The IDA solution is added to each field and QC sample at the time of extraction, as described in Section 10.1. As described in Section 7, this solution consists of isotopically labeled analogs of the analytes of interest.

IDA recoveries are flagged if they are outside of the acceptance limits. Quantitation by isotope dilution generally precludes any adverse effect on data quality due to IDA recoveries being outside of the acceptance limits as long as the signal-to-noise ratio is greater than 10:1.

> Evaluate data quality for usability, flag and submit a non-conformance memo for any analytes outside of the recovery criteria, and report if data is deemed not adversely effected.
>
> Re-extraction of samples should be performed if the signal-to-noise for any IDA is less than 10:1 or if the IDA recoveries fall below 10%.
>
> Re-extraction may be necessary under other circumstances when data quality has been determined to be adversely affected.

10.11 Troubleshooting:

Check the following items in case of calibration failures:

Evaluate the failure to determine whether it affects all of the compounds in the ICAL equally. If one ICAL point appears low or high, reprep the curve and rerun, as the error was most likely prep-based. If only a subset of the analytes are affected, check the integration and chromatography to see if there are anomalies; if justifiable, correct the integration so it is consistent with the other ICAL levels.

If there are no peaks for all compounds or no peaks after a specific retention time, ensure that the HPLC pump is pumping properly; it may have shut down due to overpressure or has a leak. If the

pump has shut down, confirm it is primed and replace the in-line filter. If the pressure climbs above expected levels, changing the guard column and even analytical column may be necessary. It's best to chase high pressure sources from the pump forward (ie the post-pump in-line filter, isolator column, post-autosampler in-line filter, guard column, analytical column and MSMS inlet. If the pump is still pumping, check the system pressure. If it is lower than expected, check for leaks. Start with all connections, then move on to pump seals, especially if there are wide variations in pressure when pumping the same solvents at the same flow rates. If the pump is still pumping and the pressure is normal, check to make sure the MSMS is still functioning properly. Most issues with the MSMS system will be noted by the instrument software.

If there are peaks for all analytes, evaluate the peak shapes by comparing them to the ICAL chromatography. If the peaks have changed (shorter and wider), a new guard column may improve peak shape and bring the system back into compliance. If a new column is necessary, a new ICAL will be needed.

Preventive and routine maintenance is described in the table below

HPLC/MS/MS Preventative Maintenance
As Needed: Change pump seals. Change in-line filters in autosampler (HPLC). Check/replace in-line frit if excessive pressure or poor performance. Replace column if no change following in-line frit change. Replace fused silica tube in ESI interface. Clean lenses. Clean skimmer. Ballast rough pump 30 minutes.
Daily (When in use) Check solvent reservoirs for sufficient level of solvent. Verify that pump is primed, operating pulse free. Check needle wash reservoir for sufficient solvent. Verify capillary heater temperature functioning. Verify vaporizer heater temperature. Verify rough pump oil levels. Verify turbo-pump functioning. Verify nitrogen pressure for auxiliary and sheath gasses. Verify that multiplier is functioning.

10.12 Sample Analysis

Place the field and QC samples in a sequence that begins with the calibration standards followed by the analysis of QC samples, field samples and continuing calibration verification standards (CCVs).

An example analytical sequence that includes initial calibration (ICAL) is provided below.

Injection Number	Lab Description
1	Primer 1
2	Primer 2
3	Primer 3

Injection Number	Lab Description
4	Primer 4
5	Blank
6	Calibration Level 1
7	Calibration Level 2
8	Calibration Level 3
9	Calibration Level 4 (ICIS)
10	Calibration Level 5
11	Calibration Level 6
12	ICB
13	ICV
14	T-PFOA
15	MB
16	LCS
17-26	(up to) 10 Field samples
27	CCV L4
28-37	(up to) 10 Field samples
38	MS
39	MSD
40	CCV L5
41	MB
42	LCS
43-52	(up to) 10 Field samples
53	CCV L4
54-63	(up to) 10 Field samples
65	MS
66	MSD
67	CCV L5

An example analytical sequence without ICAL:

Injection Number	Lab Description
1	Primer 1
2	Primer 2
3	Primer 3
4	Primer 4
5	CCB
6	CCVL (LOQV)
7	CCVIS (L4)
8	MB
9	LCS
10-19	(up to) 10 Field samples
20	CCV L5
21-30	(up to) 10 Field samples
31	MS
32	MSD
33	CCV L4
34	MB
35	LCS

36-45	(up to) 10 Field samples
46	CCV L5
47-56	(up to) 10 Field samples
57	MS
58	MSD
59	CCV L4

Enter the sample ID's into the data acquisition program in the order the samples were placed in the autosampler and initiate the analytical sequence.

11.0 Corrective Action

When an out-of-control situation occurs that is not delineated in this corrective action table or the corrective actions listed do not adequately address the circumstances, a Corrective Action Report (CAR) (NCM), etc., must be developed (see SOP BR-QA-016) and the analyst must use his/her best analytical judgment and available resources to determine the corrective action to be taken. The out-of-control situation may be caused by more than one variable. The analyst should seek the assistance of his/her immediate supervisor, QA manager or other experienced staff if they are uncertain of the cause of the out-of-control situation. The analysis must not be resumed until the source of the problem and an in-control status is re-established. All samples associated with the out-of-control situation must be reanalyzed after in-control status has been re-established or if authorization is received from the supervisor or QA Manager for release with data qualification.

12.0 Calculations / Data Reduction

12.1 Qualitative Identification

The data processing system identifies the target analytes by comparing the retention time of the peaks to the retention times of the initial calibration standards. The retention times of PFAS with labeled standards must be the same as that of the labeled IDA's to within 0.05 min. For PFAS with no labeled standards, the RT must be within ± 0.3 minutes of the CCVIS standards. *Note: The IS RT and native RT may be offset by 0.02 to 0.04 minutes.*

12.2 Quantitative Identification

The ICAL established in Section 10.10 is used to calculate concentrations for the extracts. The data processing system determines on-column concentration. Final results are calculated by the laboratory's LIMS information system (TALS).

Dilute and reanalyze samples whose results exceed the calibration range. The diluted analysis should result in a determination within the upper half of the calibration curve.

Check the results of samples analyzed immediately after high concentration samples (those with results above calibration range) for signs of carry-over. Reanalyze all samples suspected of carry -over.

12.3 Calculations

See Appendix C.

12.4 Data Review

Refer to laboratory SOP BR-QA-019 for additional instruction on the requirements for data review. The following sections summarize the general procedure as described in the data review SOP.

12.5 Primary Review

Review the chromatography and quantitation in the data processing system to confirm quantitative and qualitative identification of each target analyte. Perform and document manual integrations only if needed per the instructions in corporate policy CA-Q-S-002, Acceptable Manual Integration Practices.

Upload the data files to TALS and process the batch. Enter job information into the batch editor and add the standards and reagent additions to the worksheet, if necessary. Review the results against acceptance criteria. If acceptance criteria are not met, perform corrective action or make arrangements for corrective action with another analyst.

Set results to primary, secondary, acceptable or rejected. Set results to be reported to a status of primary and secondary. Set results that meet criteria but will not be reported to acceptable. Set results that do not meet criteria to rejected, to prevent inadvertent reporting of data.

Verify that all appropriate QC were performed and acceptable. If insufficient volume is received (MS, MSD, FRB, etc…) document in an NCM. Record all instances where acceptance criteria are not met in a nonconformance memo (NCM).

Verify that all project requirements or program specific requirements were followed. If not, immediately notify the project manager to determine an appropriate course of action. Record decisions made in the data review checklist.

Set the batch to 1st level review. Complete the data review checklist and make arrangements for secondary review by a peer analyst.

12.6 Secondary Data Review (Performed by Peer Analyst)

Record review using the data review checklist.

Verify that all project requirements or program specific requirements were followed. If not, consult with the primary analyst to determine cause. Any decisions made should be recorded on the data review checklist and retained as part of the analytical record.

Review the TALS batch editor to verify ancillary information for the work performed is filled in.

Verify that that the procedures in this SOP were followed. If discrepancy between the SOP and the analytical record is found, consult with the primary analyst to determine the source of the discrepancy. Resolve the discrepancy and verify any modifications to the SOP are properly

documented and were approved by laboratory management. Record all SOP deviations in an NCM.

Spot-check ~15% of samples in the batch to verify quantitative and qualitative identification.

If manual integrations were performed:

- Review each manual integration to verify that the integration is consistent and compliant with the requirements specified in SOP CA-Q-S-002.

- Check to ensure an appropriate technical reason code is provided for each manual integration. Acceptable technical reason codes are provided in SOP CA-Q-S-002.

- If an error is suspected, the reviewer must consult with the analyst that performed the integration to determine if a correction is necessary. Input from the Technical Manager (TM), Department Manager (DM), or QA Manager (QAM) may be sought as necessary. **The reviewer may not reintegrate except in those circumstances approved by laboratory management**, such as when the analyst that performed the integration is on vacation. If re-integration is performed by the reviewer, the reviewer is now considered the "primary analyst" and the re-integration is subject to the same review and documentation requirements as the original integration.

Verify acceptance criteria were met. If not, verify that corrective actions were performed and the nonconformance was documented with an NCM. Review the NCM to verify the form is filled out and the requisite information has been included in the internal comments tab. If corrective action was not performed and the failure not documented, consult with the primary analyst to determine cause. Consult with the primary analyst and department management to determine what actions should be taken, then follow-through with the decision made.

Run the QC checker and fix any problems found. Run and review the deliverable for gross error such as missing data. Fix any problems found.

When review is complete set the method chain to lab complete. Complete the data review checklist and forward associated paperwork to report/project management.

12.7 Data Reporting & Record Retention

The specifications for data reporting are set by the project manager and are performed by TALS using the formatter selected by the PM. The type of deliverable is also set by the PM based on various deliverable options in the TALS system. The formatters and deliverables are programmed into TALS by corporate IT staff and cannot be modified locally.

The following sections describe the default reporting scheme set for this method in TALS:

Data is retained, managed and archived as specified in laboratory SOP BR-QA-014 Laboratory Records.

13.0 Method Performance

13.1 Method Detection Limit Study (MDL)

The method detection limit (MDL) is the lowest concentration that can be detected for a given analytical method and sample matrix with 99% confidence that the analyte is present. MDLs reflect a calculated (statistical) value determined under ideal laboratory conditions in a clean matrix, and may not be achievable in all environmental matrices. An initial method detection limit study is performed in accordance with SOP BR-QA-005. The laboratory maintains MDL studies for analyses performed; these are verified at least annually unless method or program requirements require a greater frequency.

13.2 Demonstration of Capabilities

All personnel are required to perform an initial demonstration of proficiency (IDOC) on the instrument they will be using for analysis prior to testing samples. On-going proficiency must be demonstrated annually. IDOCs and on-going proficiency demonstrations are conducted as follows.

13.2.1 Four aliquots of the QC check sample are analyzed using the same procedures used to analyze samples, including sample preparation. The concentration of the QC check sample may be equivalent to a mid- level calibration.

13.2.2 Calculate the average recovery and standard deviation of the recovery for each analyte of interest.

13.2.3 If any analyte does not meet the acceptance criteria, the test must be repeated. Only those analytes that did not meet criteria in the first test need to be evaluated. TNI 2016 requires consecutive passing results. Repeated failure for any analyte indicates the need for the laboratory to evaluate the analytical procedure and take corrective action.

13.2.4 Until the IDOC is approved by the QA Manager (or designee); the trainer and trainee must be identified in the batch record.

13.3 Training Requirements

The Group Leader is responsible for ensuring that this procedure is performed by an associate who has been properly trained in its use and has the required experience. A new analyst must be working under documented supervision prior to approval of the IDOC. Documentation that a new analyst is performing under supervision must be entered into the batch record (View Batch Information) until that analyst's IDOC has been approved by the QA Manager (or designee). See requirements for demonstration of analyst proficiency in SOP BR-QA-011.

14.0 Pollution Control

Employees must abide by the policies and procedures in the NDSC Eurofins TestAmerica Laboratories Environmental Health and Safety Manual (CW-E-M-001), Radiation Safety Manual and this document. This procedure may involve hazardous material, operations and equipment. This SOP does not purport to address all of the safety problems associated with its use. It is the responsibility of the user of the method to follow appropriate safety, waste disposal and health practices under the assumption that all samples and reagents are potentially hazardous. Safety glasses, gloves, lab coats and closed-toe, nonabsorbent shoes are a minimum.

15.0 Waste Management

Waste management practices are conducted consistent with all applicable rules and regulations. Excess reagents, samples and method process wastes are disposed of in an accepted manner. Waste description rules and land disposal restrictions are followed. Waste disposal procedures are incorporated by reference to BR-EH-001. The following waste streams are produced when this method is carried out.

- Vials containing sample extracts: Satellite Container: 30 gallon poly barrel located under GC-Semi prep hood.
- Solvent Waste: Satellite Container: 5 gallon poly carboy located under LCMSMS.

16.0 References / Cross References

- Cheryl Moody, Wai Chi Kwan, Johnathan W. Martin, Derek C. G. Muir, Scott A. Mabury, "Determination of Perfluorinated Surfactants in Surface Water Samples by Two Independent Analytical Techniques: Liquid Chromatography/Tandem Mass Spectrometry and 19FNMR," Analytical Chemistry 2001, 73, 2200-2206.
- John Giesy et al., "Accumulation of Perfluorooctane Sulfonate in Marine Mammals", Environmental Science & Technology, 2001 Vol. 35, No. 8, pages 1593-1598.
- U.S. EPA, "Residue Chemistry Test Guidelines, OPPTS 860.1340, Residue Analytical Method", EPA 712-C-95-174, August 1995.
- STL Denver White Paper DEN-W-LC-002, "Method Validation Study for Analysis of Ammonium Perfluorooctanoate in Soil Matrices by High Performance Liquid Chromatography/Mass Spectrometry (HPLC/MS/MS)", Mark Dymerski, September 5, 2003.
- STL Denver White Paper DEN-W-LC-003, "Addendum A to Method Validation Study for Analysis of Ammonium Perfluorooctanoate in Soil Matrices by High Performance Liquid Chromatography/Mass Spectrometry (HPLC/MS/MS)", Mark Dymerski, August 6, 2003.
- STL Denver White Paper DEN-W-LC-004, "Method Validation Study for Analysis of Perfluorooctanoic Acid in Waters by High Performance Liquid Chromatography/Tandem Mass Spectrometry (HPLC/MS/MS)", Mark Dymerski, January 26, 2005.
- Waters application note; "Acquity UPLC System for Quantifying Trace Levels of Perfluorinated Compounds with an Acquity PFC Analysis Kit", Peter J. Lee, Evan T. Bernier, Gordon T. Fujimoto, Jeremy Shia, Michael S. Young, and Alice J. Di Gloia, Waters Corporation, Milford, MA. USA.
- Method ISO 25101, "Water quality – Determination of perfluorooctanesulfonate (PFOS) and perfluorooctanoate (PFOA) – Method for unfiltered samples using solid phase extraction and liquid chromatography/mass spectrometry", First Edition, 2009-03-01, International Organization for Standardization, Technical Committee ISO/TC 147, Water Quality, Subcommittee SC 2, Physical, chemical and biochemical methods.
- US EPA, "Method 537 - Determination of Selected Perfluorinated alkyl acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometery (LC/MS/MS)", Version 1.1, September 2009, J.A. Shoemaker, P.E. Grimmett, B.K. Boutin, EPA Document #: EPA/600/R-08/092.
- Laboratory SOP BR-QA-005 *Procedures for the Determination of Limits of Detection (LOD), Limits of Quantitation (LOQ) and Reporting Limits (RL).*
- Laboratory SOP BR-QA-011 *Employee Training*
- Laboratory SOP BR-EH-001 *Hazardous Waste*
- Laboratory SOP BR-QA-014 *Laboratory Records*

- Laboratory SOP BR-QA-006 *Procedures & Documentation Requirements for Manual Integration*
- Laboratory Quality Assurance Manual (QAM)
- Corporate TestAmerica SOP CA-Q-S-002 *Manual Integrations*.

17.0 Method Modifications

Modification Number	Method Reference	Modification & Technical Justification
1	Section 7.2	Method 25101 specifies that the values reported for PFOA and PFOS shall be the linear isomer only. In keeping with the dictates of USEPA 537 and other US conventions, the laboratory reports both the branched (when present) and linear isomers as a single value for these compounds.
2	Section 10.1	A different SPE cartridge, Waters OASIS WAX, is used for the extraction process. As a result, solvents and elution procedures are different.
3	Section 10.1	The samples are fortified with a greater number of labeled analytes (most analytes have labeled versions) prior to extraction.
4	Section 10.5	The HPLC Column, Eluents and gradient conditions have changed.
5	Section 10.5	For non-drinking water matrices, the analyte list has expanded. The number of labeled analytes has also expanded to improve quantitation.
6	Table 1	The reporting limits have changed to a consistent value.
7	Appendix B	Calibration levels have been changed so all levels have the same analyte concentration.

18.0 Attachments

- Table 1: Routine Compound List and LOQ
- Table 2: Primary Materials Used
- Table 3: QC Summary & Recommended Corrective Action
- Table 4: Control Limits
- Appendix A: Terms and Definitions
- Appendix B: Standard Preparation Tables
- Appendix C: Equations

19.0 Revision History (all revision history must be retained in this SOP)

Revision 6.1: Date effective 09/28/2020

- Updated cover page dates and signatories
- Section 1.1: Updated reporting limit ranges to reflect current practice. Added clarification for non-potable samples are only analyzed in NJ.

- Section 7.3: Updated standard preparation solutions for IDA solution from 1000 ng/mL to 500 ng/mL and Internal standard solution from 2500 ng/mL to 1250 ng/mL to reflect current practice.
- Section 8.0: Added 28 day holding time specific to samples collected in NJ.
- Section 10.1: Changed IDA solution to have a fixed concentration of 1.25 ng/mL
- Sections 10.1.5 and 10.2.5.: Updated Internal standard used from 2500 ng/mL to 1250 ng/mL to reflect current practice.
- Sections 5.0 and 11.0: Update to standard language as required by corporate NDSC.
- Section 19.0: Added effective dates.
- Table 1: Updated reporting limits to reflect current practice.
- Table 3: Added NJ specific requirement.
- Appendix B: Updated information to for IDA and Internal Standard formulations to reflect current practice.

Revision 6.0: Date effective 04/24/2020

- Updated cover page dates, copyright information, and signatories
- Throughout: Added support for soil, sediment and tissue matrices.
- Throughout: Removed reference to analysis using Waters instrumentation.
- Throughout: Removed reference to final extract concentration for aqueous samples.
- Section 1.1: Update Fluorotelomer sulfonates (FTS) to report acid forms
- Section 11.0: Added corrective action requirement as it is a corporate requirement to include.

Revision 5.0: Date effective 10/11/2019

- Updated cover page dates, copyright information, and signatories
- Throughout: removed references to drinking water. Will add back if adopted.
- Throughout: removed solid extraction/analysis verbiage missed in previous revision.
- Throughout: revised formatting to be consistent
- Throughout: added PFHxDA, PFODA, PFDoS, 10:2FTS, HFPO_DA, DONA, F53BMajor, and F53B Minor as additional analytes and IDAs
- Section 4.0: added interference information about $^{13}C_2$-PFHxDA
- Section 6.1: updated to include additional laboratory apparatus information
- Section 6.2: updated to include additional instrument and more detail for existing instrument
- Section 7.1: added more detail to reagent information and the addition of Ammonium acetate and Ammonium hydroxide
- Section 7.2: added PFHpS and PFDS as other PFAS not available in the acid form. Added the IDA and ISTD are added at a fixed concentration and removed the low level reference
- Section 9.1 added a NCM must be added for MS/MSD
- Section 10.1: removed the low level spike reference and added the PFAS-IDA solution is added to each sample and QC sample in concentrated extract and non-concentrated extracts
- Section 10.2: In the previous version of this SOP, the “Note” was removed and replaced with “Warning: The use of a vacuum system creates the risk of glassware implosion. Inspect All glassware prior to use. Glassware with chips, scratches, rub marks or cracks must not be used.”
- Section 10.2: changed wording to clarify addition of poly siphon line into the SPE cartridge

- Section 10.3: removed to keep test tube as keep and added “Note: If the extracts will note be concentrated, use 3mL of 0.3% NH4OH/methanol for the second bottle rinse so the final volume is approximately 8mL.”
- Section 10.5: added sample cleanup with graphitized carbon section
- Section 10.6: added wording to have 100uL of reagent water to the 10mL extract at this time
- Section 10.7: updated wording
- Section 10.8: added operating system for new instrument and added more detail for existing instrument
- Section 10.17: updated sample analysis to include calibration currently in use
- Table 1 and Table 4: updated to include additional analytes and IDAs
- Appendix A: updated terms and definitions from body of SOP
- Appendix B: updated to include additional analytes and IDAs

Revision 4.0: Date effective 04/12/2019

- Updated cover page dates, copyright information, and signatories
- Headers: removed TestAmerica logo and added Eurofins logo
- Throughout: removed references to drinking water. Will add back if adopted.
- Throughout: revised formatting to be consistent
- Section 1.1: added note about addition of Appendix D, removed NJDEP as PAB
- Section 10.1.3: added note about the use of glass pipettes
- Section 10.3: In a previous version of this SOP, Table “Recommended Instrument Operating Conditions” incorrectly referenced PFTrDA as Isotope Dilution, so this was corrected to Internal Standard and added note to contact clients for ISTD quantitation.
- Removed verbiage regarding soil LOQ from Note on Table 1.
- Added Appendix D: NJDEP secondary certified analytes list

Revision 3.0: Date effect 12/12/2018

- Updated cover page dates and signatories
- Section 10.1: added note for handling incomplete volume extraction process
- Section 18: added previous revision history back into SOP
- Throughout: updated QC criteria from EPA 537 r1.1 that was missed in previous revision
- Throughout: removed solid extraction/analysis verbiage missed in previous revision.
- Throughout: updated calibration to include criteria from EPA 537 r1.1 and to include the 9 calibration points currently in use.
- Throughout: minor formatting updates

Rev 2.1: Date effective 10/11/2018

- Updated cover page dates and signatories
- Section 8: added preservation requirements for DW samples.
- Throughout: updated QC criteria to match EPA537 rev1.1
- Throughout: removed references to solid and tissue extraction/analysis.

Rev 2.0: Date effective 07/31/2018

- Updated cover page and signatories
- Section 8: added preservation requirements for DW samples.
- Throughout: included verbiage that Non-drinking water matrices are not certified under PAB.
- Throughout: separated DW and non-DW limits and QC requirements.

- Throughout: minor formatting and typographical corrections.
- Tables 3 & 4: updated limit to meet EPA 537 criteria.
- Appendix A: updated terms and definitions from body of SOP

Rev 1.0: Date effective 01/19/2018

- Extended analyte list to 21 native compounds and 18 IDAs.
- Altered concentration step in extract preparation by employing a reagent water keeper instead of concentrating to dryness.
- Incorporated use of internal standard for IDA recovery calculation.

Revision 0.0: Date effective 05/19/2017

- New SOP based on USEPA method 537

Previous revisions are retained by the QA department.

Table 1: Routine Compound List & Limit of Quantitation (LOQ)

Compound Name	Abbreviation	CAS #	Water (ng/L)	Soil/ Sediment (ug/Kg)	Tissue (ug/Kg)
Perfluoroalkylcarboxylic acids (PFCAs)					
Perfluoro-n-butanoic acid	PFBA	375-22-4	5.0	0.50	1.0
Perfluoro-n-pentanoic acid	PFPeA	2706-90-3	2.0	0.20	1.0
Perfluoro-n-hexanoic acid	PFHxA	307-24-4	2.0	0.20	1.0
Perfluoro-n-heptanoic acid	PFHpA	375-85-9	2.0	0.20	1.0
Perfluoro-n-octanoic acid	PFOA	335-67-1	2.0	0.20	1.0
Perfluoro-n-nonanoic acid	PFNA	375-95-1	2.0	0.20	1.0
Perfluoro-n-decanoic acid	PFDA	335-76-2	2.0	0.20	1.0
Perfluoro-n-undecanoic acid	PFUdA	2058-94-8	2.0	0.20	1.0
Perfluoro-n-dodecanoic acid	PFDoA	307-55-1	2.0	0.20	1.0
Perfluoro-n-tridecanoic acid	PFTrDA	72629-94-8	2.0	0.20	1.0
Perfluoro-n-tetradecanoic acid	PFTeDA	376-06-7	2.0	0.20	1.0
Perfluoro-n-hexadecanoic acid	PFHxDA	67905-19-5	2.0	0.20	1.0
Perfluoro-n-octadecanoic acid	PFODA	16517-11-6	2.0	0.20	1.0
Perfluorinated sulfonic acids (PFSAs)					
Perfluoro-1-butanesulfonic acid	PFBS	375-73-5	2.0	0.20	1.0
Perfluoro-1-pentanesulfonic acid	PFPeS	2706-91-4	2.0	0.20	1.0
Perfluoro-1-hexanesulfonic acid	PFHxS	355-46-4	2.0	0.20	1.0
Perfluoro-1-heptanesulfonic acid	PFHpS	375-92-8	2.0	0.20	1.0
Perfluoro-1-octanesulfonic acid	PFOS	1763-23-1	2.0	0.20	1.0
Perfluoro-1-nonanesulfonic acid	PFNS	68259-12-1	2.0	0.20	1.0
Perfluoro-1-decanesulfonic acid	PFDS	335-77-3	2.0	0.20	1.0
Perfluoro-1-dodecanesulfonic acid	PFDoS	79780-39-5	2.0	0.20	1.0
Perfluorinated sulfonamides (FOSA)					
Perfluoro-1-octanesulfonamide	FOSA	754-91-6	2.0	0.20	1.0
Perfluorinated sulfonamidoacetic acids (FOSAA)					
N-ethylperfluoro-1-octanesulfonamidoacetic acid	EtFOSAA	2991-50-6	5.0	2.0	10.0
N-methylperfluoro-1-octanesulfonamidoacetic acid	MeFOSAA	2355-31-9	5.0	2.0	10.0
Fluorotelomer sulfonates (FTS)					
1H,1H,2H,2H-perfluorohexane sulfonate *(4:2)*	4:2 FTS	757124-72-4	2.0	2.0	10.0
1H,1H,2H,2H-perfluorooctane sulfonate *(6:2)*	6:2 FTS	27619-97-2	5.0	2.0	10.0
1H,1H,2H,2H-perfluorodecane sulfonate *(8:2)*	8:2 FTS	39108-34-4	2.0	2.0	10.0
1H,1H,2H,2H-perfluorododecane sulfonate*(10:2)*	10:2 FTS	120226-60-0	2.0	2.0	10.0
Fluorinated Replacement Chemicals					
Hexafluoropropylene oxide dimer acid	HFPO-DA	13252-13-6	4.0	0.40	2.0
4,8-dioxa-3H-perfluorononanoic acid	DONA	919005-14-4	2.0	0.20	1.0
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	F53B Major (9Cl-PF3ONS)	756426-58-1	2.0	0.20	1.0
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	F53B Minor (11Cl-PF3OUdS)	763051-58-1	2.0	0.20	1.0

NOTE: The LOQ values may vary. The Water LOQ is based on a 250mL nominal sample volume.

Table 2: Primary Materials Used

Material[1]	Hazards	Exposure Limit[2]	Signs and Symptoms of Exposure
Acetic Acid (3-2-1)	Corrosive Poison Flammable	10 ppm-TWA 15 ppm-STEL	Contact with concentrated solution may cause serious damage to the skin and eyes. Inhalation of concentrated vapors may cause serious damage to the lining of the nose, throat, and lungs. Breathing difficulties may occur.
Ammonium Hydroxide (3-0-0)	Corrosive Poison	50 ppm-TWA	Severe irritant. Effects from inhalation of dust or mist vary from mild irritation to serious damage to the upper respiratory tract. Symptoms may include sneezing, sore throat or runny nose. Contact with skin can cause irritation or severe burns and scarring with greater exposures. Causes irritation of eyes, and with greater exposures it can cause burns that may result in permanent damage, including blindness. Brief exposure to 5000 PPM can be fatal.
Hexane (2-3-0)	Flammable Irritant	500 ppm-TWA	Inhalation of vapors irritates the respiratory tract. Overexposure may cause lightheadedness, nausea, headache, and blurred vision. Vapors may cause irritation to the skin and eyes.
Hydrochloric Acid (3-0-1)	Corrosive Poison	5 ppm (Ceiling)	Can cause pain and severe burns upon inhalation, ingestion, eye or skin contact. Exposure to concentrated solutions may cause deep ulcerations to skin, permanent eye damage, circulatory failure and swallowing may be fatal.
Methanol (2-3-0)	Flammable Poison Irritant	200 ppm (TWA)	A slight irritant to the mucous membranes. Toxic effects exerted upon nervous system, particularly the optic nerve. Symptoms of overexposure may include headache, drowsiness and dizziness. Methyl alcohol is a defatting agent and may cause skin to become dry and cracked. Skin absorption can occur; symptoms may parallel inhalation exposure. Irritant to the eyes.
Potassium Hydroxide (3-0-1)	Corrosive Poison		Severe irritant. Can cause severe burns upon inhalation, ingestion, eye or skin contact. Exposure to concentrated solutions may cause severe scarring of tissue, blindness, and may be fatal if swallowed.
Potassium Persulfate (2-0-1-OX)	Oxidizer	None	Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. Causes irritation to skin and eyes. Symptoms include redness, itching, and pain. May cause dermatitis, burns, and moderate skin necrosis.

[1] Always add acid to water to prevent violent reactions.
[2] Exposure limit refers to the OSHA regulatory exposure limit.

Table 3: QC Summary, Acceptance Criteria and Recommended Corrective Action (EPA537)

QC Check	Minimum Frequency	Acceptance Criteria	Corrective Action
6-Point Calibration (5 point minimum for CF and Linear Regression) (ICAL)	Before sample analysis, when CCVs indicate calibration is no longer valid; after major instrument maintenance	CF = RSD ≤ 20% (compounds calibrated via IDA) CF = RSD ≤ 25% (compounds calibrated using "near-IDA" compounds) CF = RSD ≤ 50% (IDA standards using ISTD) Each cal pt. = +/-30%Rec. (+/-50%Rec for cal low pt.) Linear Regression: $r^2 \geq 0.990$	Correct problem and repeat initial calibration.
IDA Response	Every injection contains the IDA analytes	Non-DW matrices (for samples collected in NJ – see below): Standards: 50-150% recovery Field samples: 50-150% recovery (poor responding IDAs: 25-150%) (reportable if >10x S/N ratio and >10% ICAL RF)	Standard failures must be investigated to determine the cause of the failure. Recalibration may be required. Samples with recoveries outside acceptance limits must be evaluated for data usability. Re-extraction may be necessary if data quality has been adversely affected.
IDA Response	Every injection contains the IDA analytes	Non-Potable samples collected in NJ: Standards: 50-150% recovery Field samples: 50-150% recovery (reportable if >10x S/N ratio and >10% ICAL RF)	Standard failures must be investigated to determine the cause of the failure. Recalibration may be required. Samples with recoveries outside acceptance limits must be evaluated for data usability. Re-extraction may be necessary if data quality has been adversely affected.
IS Response	Every injection contains the IS analyte	ICAL Standards: Area of individual points must not deviate by more than 50% of ICAL mean area response Samples following ICAL: 50-150% of ICAL mean response Ongoing CCV: 50-150% of ICAL mean response Post-CCV Samples: Area must be within 50-150% of most recent CCVIS (daily opening CCV)	Standard failures must be investigated to determine the cause of the failure. Recalibration may be required. Sample failures may be matrix related and should be evaluated to determine if the data quality has been adversely affected.
Initial Calibration Blank (ICB)	Immediately following the ICAL	Non-DW: < RL for all target analytes	Determine source of interference/contamination, eliminate it and recalibrate.
Second Source Standard Verification (ICV)	Prior to the analysis of samples. Generally immediately after the ICB.	+/-30 for analytes, IS, and SUR.	Correct problem and verify second source standard. If that fails, repeat calibration.
Continuing Calibration Verification (CCV)	Beginning of each analytical sequence, every ten field samples and at the end of each analytical sequence. Alternate between levels 3, 4 and 5.	+/-30%	Rerun any samples analyzed before and after the failing CCV. Take corrective action; if subsequent CCV analyses fail, recalibrate instrument.
Continuing Calibration Verification-Low (CCVL)	Beginning of each analytical sequence that is not preceded by an ICAL to show LOQ is still valid.	CF = 50-150% (ISTD targets) IDA 50-150%	Stop sample acquisition. Take corrective action; if subsequent CCV analyses fail, recalibrate instrument.

QC Check	Minimum Frequency	Acceptance Criteria	Corrective Action
Method Blank	One per extraction batch of 20 or fewer samples	Non-DW: < RL for all target analytes	Reprocess MB and associated samples if any target analyte in the MB is at or above the RL, greater than 1/10 the amount detected in any sample or 1/10 the regulatory limit, whichever is greater. If the target is not greater than the RL in the samples associated with an unacceptable method blank, the data may be reported with appropriate qualifiers. If insufficient sample is available to reprocess, report data with appropriate qualifiers.
Laboratory Control Sample	One per extraction batch of 20 or fewer samples (rotate between Low, Med, High)	%R within control limits. See Table 4	Reprep and reanalyze samples for failed analytes. If reanalysis is not possible due to insufficient sample volume, report data with appropriate data qualifiers.
Matrix Spike / Matrix Spike Duplicate	One set per extraction batch when sufficient sample volume is provided	%R within control limits. See Table 4	Evaluate to determine if there is a matrix effect or analytical error. If analytical error, reanalyze or reprocess as appropriate.
Sample Duplicate	One per extraction batch of 20 or fewer samples	RPD within control limits. See Table 4	Evaluate data to determine source for error. If analytical error is suspected, reanalyze or reprocess as appropriate.
Field Reagent Blank	Per client sample set	Non-DW: < RL for all target analytes	Analysis only required if samples contain target analytes at or above the RL. If analytes are present in the FRB at >1/3 RL, all samples must be recollected and re-analyzed.

Table 4: LCS and MS/MSD Control Limits*

Analyte	Water (Low Level) %R	Water (Med-High Level) %R	RPD
Perfluorobutanoic acid (PFBA)	50-150	70-130	20
Perfluoropentanoic acid (PFPeA)	50-150	70-130	20
Perfluorobutanesulfonic acid (PFBS)	50-150	70-130	20
Perfluorohexanoic acid (PFHxA)	50-150	70-130	20
Perfluoropentanesulfonic acid (PFPeS)	50-150	70-130	20
Perfluoroheptanoic acid (PFHpA)	50-150	70-130	20
Perfluorohexanesulfonic acid (PFHxS)	50-150	70-130	20
Perfluorooctanoic acid (PFOA)	50-150	70-130	20
Perfluoroheptanesulfonic acid (PFHpS)	50-150	70-130	20
Perfluorononanoic acid (PFNA)	50-150	70-130	20
Perfluorooctanesulfonic acid (PFOS)	50-150	70-130	20
Perfluorodecanoic acid (PFDA)	50-150	70-130	20
Perfluorononanesulfonic acid (PFNS)	50-150	70-130	20
Perfluoroundecanoic acid (PFUdA)	50-150	70-130	20
Perfluorodecanesulfonic acid (PFDS)	50-150	70-130	20
Perfluorooctanesulfonamide (FOSA)	50-150	70-130	20
Perfluorododecanoic acid (PFDoA)	50-150	70-130	20
Perfluorododecanesulfonic acid (PFDoS)	50-150	70-130	20
Perfluorotridecanoic acid (PFTrDA)	50-150	70-130	20
Perfluorotetradecanoic acid (PFTeDA)	50-150	70-130	20
Perfluorohexadecanoic acid (PFHxDA)	50-150	70-130	20
Perfluorooctadecanoic acid (PFODA)	50-150	70-130	20
1H,1H,2H,2H Perfluorohexanesulfonate (4:2FTS)	50-150	70-130	20

1H,1H,2H,2H Perfluorooctanesulfonate (6:2FTS)	50-150	70-130	20
1H,1H,2H,2H Perfluorodecanesulfonate (8:2FTS)	50-150	70-130	20
1H,1H,2H,2H Perfluorododecanesulfonate (10:2FTS)	50-150	70-130	20
N-Methyl Perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	50-150	70-130	20
N-Ethyl Perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	50-150	70-130	20
Hexafluoropropylene oxide dimer acid	50-150	70-130	20
4,8-dioxa-3H-perfluorononanoic acid	50-150	70-130	20
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	50-150	70-130	20
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	50-150	70-130	20

**The limits in this table are those in effect as of the published date of this SOP. The %R limits are specified by EPA 537r1.1 in sections 9.33, 9.36, and 9.37. The RPD the lab uses is more strict than those referenced in EPA 537 r1.1. If the lab makes changes to any of these limits, the updated limits will be no less strict than those specified in EPA537.*

Appendix A: Terms and Definitions

PFCAs: Perfluorocarboxylic acids
PFSAs: Perfluorinated sulfonic acids
FOSA: Perfluorinated sulfonamide
PFOA: Perfluorooctanoic acid
PFOS: Perfluorooctane sulfonate
PTFE: Polytetrafluoroethylene (e.g., Teflon®)
SPE: Solid phase extraction**.**
PP: Polypropylene
PE: Polyethylene
HDPE: High density polyethylene
AFFF: Aqueous Film Forming Foam
IDA: Isotope dilution analytes
Acceptance Criteria: specified limits placed on characteristics of an item, process or service defined in requirement documents.
Accuracy: the degree of agreement between an observed value and an accepted reference value. Accuracy includes a combination of random error (precision) and systematic error (bias) components which are due to sampling and analytical operations; a data quality indicator.
Analyte: The specific chemicals or components for which a sample is analyzed. (EPA Risk Assessment Guide for Superfund, OSHA Glossary).
Batch: environmental samples that are prepared and/or analyzed together with the same process, using the same lot(s) of reagents. A preparation/digestion batch is composed of one to 20 environmental samples of similar matrix, meeting the above criteria. An analytical batch is composed of prepared environmental samples (extracts, digestates and concentrates), which are analyzed together as a group.
Calibration: a set of operations that establish, under specified conditions, the relationship between values of quantities indicated by a measuring instrument or measuring system, or values represented by a material measure or a reference material and the corresponding values realized by the standards.
Calibration Curve: the graphical relationship between the known values or a series of calibration standards and their instrument response.
Calibration Standard: A substance or reference used to calibrate an instrument.
Continuing Calibration Verification (CCV): a single or multi-parameter calibration standard used to verify the stability of the method over time. Usually from the same source as the calibration curve.
Corrective Action: the action taken to eliminate the cause of an existing nonconformity, defect or other undesirable occurrence in order to prevent recurrence.
Data Qualifier: a letter designation or symbol appended to an analytical result used to convey information to the data user. (Laboratory)
Demonstration of Capability (DOC): procedure to establish the ability to generate acceptable accuracy and precision.
Holding Time: the maximum time that a sample may be held before preparation and/or analysis as promulgated by regulation or as specified in a test method.
Initial Calibration: Analysis of analytical standards for a series of different specified concentrations used to define the quantitative response, linearity and dynamic range of the instrument to target analytes.
Intermediate Standard: a solution made from one or more stock standards at a concentration between the stock and working standard. Intermediate standards may be certified stock standard solutions purchased from a vendor and are also known as secondary standards.

Laboratory Control Sample (LCS): a blank matrix spiked with a known amount of analyte(s) processed simultaneously with and under the same conditions as samples through all steps of the procedure.
Matrix Spike (MS): a field sample to which a known amount of target analyte(s) is added.
Matrix Spike Duplicate (MSD): a second replicate matrix spike
Method Blank (MB): a blank matrix processed simultaneously with and under the same conditions as samples through all steps of the procedure. Also known as the preparation blank (PB).
Method Detection Limit (MDL): the minimum amount of a substance that can be measured with a specified degree of confidence that the amount is greater than zero using a specific measurement system. The MDL is a statistical estimation at a specified confidence interval of the concentration at which relative uncertainty is ±100%. The MDL represents a range where qualitative detection occurs. Quantitative results are only produced in this range and qualified with the proper data reporting flag when a project requires this type of data reporting.
Non-conformance: an indication, judgment, or state of not having met the requirements of the relevant specification, contract or regulation.
Precision: the degree to which a set of observations or measurements of the same property, obtained under similar conditions, conform to themselves.
Preservation: refrigeration and/or reagents added at the time of sample collection to maintain the chemical, physical, and/or biological integrity of the sample.
Quality Control Sample (QC): a sample used to assess the performance of all or a portion of the measurement system.
Reporting Limit (RL): the level to which data is reported for a specific test method and/or sample.
Stock Standard: a solution made with one or more neat standards usually with a high concentration. Also known as a primary standard. Stock standards may be certified solutions purchased from a vendor.
Surrogate: a substance with properties that mimic the analyte of interest but that are unlikely to be found in environmental samples.

Appendix B: Standard Preparation Tables

The standard formulations contained in this appendix are recommended and are subject to change. If the concentration of the stock standard is different than those noted in this table, adjust the standard preparation formulation accordingly. Unless otherwise specified, prepare the standard solutions in methanol using Class A volumetric glassware and Hamilton syringes and assign an expiration date of 1 year from date of preparation unless the parent standard expires sooner; then use the earlier date. See laboratory SOP BR-QA-002 *Standard Preparation* for further guidance. For stock standards solutions made from neat material, assign an expiration date of 2 years from the date of formulation.

Stock Standard Solutions

PFAS LCS/Matrix Spike Stock Solution 1000 ng/mL

Parent Standard	Vendor	Component	Stock Standard Conc (µg/mL)	Volume Added (µL)	Final Volume (mL)	Final Conc (ng/mL)
PFBA	Wellington Laboratories Code: PFBA	Perfluorobutanoic acid	50	200	10	1000
PFPeA	Wellington Laboratories Code: PFPeA	Perfluoropentanoic acid	50	200		1000
PFBS	Wellington Laboratories Code: L-PFBS	Perfluorobutanesulfonic acid	44.2	200		884
PFHxA	Wellington Laboratories Code: PFHxA	Perfluorohexanoic acid	50	200		1000
PFPeS	Wellington Laboratories Code: L-PFPeS	Perfluoropentanesulfonic acid	46.9	200		938
PFHpA	Wellington Laboratories Code: PFHpA	Perfluoroheptanoic acid	50	200		1000
PFHxSK	Wellington Laboratories Code: br-PFHxSK	Perfluorohexanesulfonic acid	45.5	200		910
PFOA	Wellington Laboratories Code: PFOA	Perfluorooctanoic acid	50	200		1000
PFHpS	Wellington Laboratories Code: L-PFHpS	Perfluoroheptanesulfonic acid	47.6	200		952
PFNA	Wellington Laboratories Code: PFNA	Perfluorononanoic acid	50	200		1000
PFOS	Wellington Laboratories Code: br-PFOSK	Perfluorooctanesulfonic acid	46.4	200		928
PFDA	Wellington Laboratories Code: PFDA	Perfluorodecanoic acid	50	200		1000
PFNS	Wellington Laboratories Code: L-PFNS	Perfluorononanesulfonic acid	48.0	200		960
PFUdA	Wellington Laboratories Code: PFUdA	Perfluoroundecanoic acid	50	200		1000
PFDS	Wellington Laboratories Code: L-PFDS	Perfluorodecanesulfonic acid	48.2	200		964
FOSA	Wellington Laboratories Code: FOSA-I	Perfluorooctane sulfonamide	50	200		1000
PFDoA	Wellington Laboratories Code: PFDoA	Perfluorododecanoic acid	50	200		1000
PFDoS	Wellington Laboratories Code: L-PFDoS	Perfluorododecanesulfonic acid	48.4	200		968
PFTrDA	Wellington Laboratories Code: PFTrDA	Perfluorotridecanoic acid	50	200		1000
PFTeDA	Wellington Laboratories Code: PFTeDA	Perfluorotetradecanoic acid	50	200		1000
PFHxDA	Wellington Laboratories Code: PFHxDA	Perfluorohexadecanoic acid	50	200		1000
PFODA	Wellington Laboratories Code: PFODA	Perfluorooctadecanoic acid	50	200		1000
4:2FTS	Wellington Laboratories Code: 4:2FTS	1H,1H,2H,2H-perfluorohexane sulfonate (4:2)	46.7	200		934
6:2FTS	Wellington Laboratories Code: 6:2FTS	1H,1H,2H,2H-perfluorooctane sulfonate (6:2)	47.4	200		948

8:2FTS	Wellington Laboratories Code: 8:2FTS	1H,1H,2H,2H-perfluorodecane sulfonate (8:2)	47.9	200		958
10:2FTS	Wellington Laboratories Code: 10:2FTS	1H,1H,2H,2H-perfluorododecane sulfonate (10:2)	48.2	200		964
NMeFOSAA	Wellington Laboratories Code: br-NMeFOSAA	N-methyl Perfluorooctane sulfonamidoacetic acid	50	200		1000
NEtFOSAA	Wellington Laboratories Code: br-NEtFOSAA	N-ethyl Perfluorooctane sulfonamidoacetic acid	50	200		1000
HFPO-DA	Wellington Laboratories Code: HFPO-DA	Hexafluoropropylene oxide dimer acid	50	200		1000
DONA	Wellington Laboratories Code: NaDONA	4,8-dioxa-3H-perfluorononanoic acid	47.1	200		942
9Cl-PF3ONS	Wellington Laboratories Code: 9Cl-PF3ONS	9-Chlorohexadecafluoro-3-oxanone-1-sulfonate	46.6	200		932
11Cl-PF3OUdS	Wellington Laboratories Code: 11Cl-PF3OUdS	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonate	47.1	200		942

Solvent: Methanol

PFAS Matrix Spike Solution 400 ng/mL

Parent Standard	Vendor	Component	Stock Standard Conc (ng/mL)	Volume Added (mL)	Final Volume (mL)	Final Conc (ng/mL)
PFAS Matrix Spike Stock Solution	In-house	See above list	1000	2.0	5.0	400

Solvent: Methanol

PFAS MDL Spiking Solution 100 ng/mL

Parent Standard	Vendor	Component	Stock Standard Conc (ng/mL)	Volume Added (mL)	Final Volume (mL)	Final Conc (ng/mL)
PFAS Matrix Spike Stock Solution	In-house	See above list	1000	0.10	1.0	100

Solvent: Methanol

PFAS-IDA Solution (Surrogate) 500 ng/mL

Parent Standard	Vendor	Component	Stock Standard Conc (µg/mL)	Volume Added (µL)	Final Volume (mL)	Final Conc (ng/mL)
13C4 PFBA	Wellington Laboratories Code: MPFBA	$^{13}C_4$-Perfluorobutanoic acid	50	200		500
13C5-PFPeA	Wellington Laboratories Code: MPFPeA	$^{13}C_5$-Perfluoropentanoic acid	50	200		500
13C3-PFBS	Wellington Laboratories Code: M3PFBS	$^{13}C_3$-Perfluorobutanesulfonic acid	46.5	200		465
13C2 PFHxA	Wellington Laboratories Code: MPFHxA	$^{13}C_2$-Perfluorohexanoic acid	50	200		500
13C4 PFHpA	Wellington Laboratories Code: M4PFHpA	$^{13}C_4$-Perfluoroheptanoic acid	50	200		500
18O2 PFHxS	Wellington Laboratories Code: MPFHxS	$^{18}O_2$-Perfluorohexanesulfonic acid	47.3	200	20	473
13C4 PFOA	Wellington Laboratories Code: MPFOA	$^{13}C_4$-Perfluorooctanoic acid	50.0	200		500
13C5 PFNA	Wellington Laboratories Code: MPFNA	$^{13}C_5$-Perfluorononanoic acid	50.0	200		500
13C4 PFOS	Wellington Laboratories Code: MPFOS	$^{13}C_4$-Perfluorooctanesulfonic acid	47.8	200		478
13C2 PFDA	Wellington Laboratories Code: MPFDA	$^{13}C_2$-Perfluorodecanoic acid	50.0	200		500
13C8 FOSA	Wellington Laboratories Code: M8FOSA-I	$^{13}C_8$-Perfluorooctane sulfonamide	50.0	200		500

13C2 PFUdA	Wellington Laboratories Code: MPFUdA	$^{13}C_2$-Perfluoroundecanoic acid	50.0	200		500
13C2 PFDoA	Wellington Laboratories Code: MPFDoA	$^{13}C_2$-Perfluorododecanoic acid	50.0	200		500
13C2 PFTeDA	Wellington Laboratories Code: MPFTeDA	$^{13}C_2$-Perfluorotetradecanoic acid	50.0	200		500
13C2 PFHxDA	Wellington Laboratories Code: MPFHxDA	$^{13}C_2$-Perfluorohexadecanoic acid	50.0	200		500
M2-4:2FTS	Wellington Laboratories Code: M2-4:2FTS	Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-$^{13}C_2$]-hexane sulfonate (4:2)	46.7	200		467
M2-6:2FTS	Wellington Laboratories Code: M2-6:2FTS	Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-$^{13}C_2$]-octane sulfonate (6:2)	47.5	200		475
M2-8:2FTS	Wellington Laboratories Code: M2-8:2FTS	Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-$^{13}C_2$]-decane sulfonate (8:2)	47.9	200		479
d3-NMeFOSAA	Wellington Laboratories Code: d3-M-MeFOSAA	N-methyl-d_3-perfluoro-1-octane sulfonamidoacetic acid	50.0	200		500
d5-NEtFOSAA	Wellington Laboratories Code: d5-M-EtFOSAA	N-ethyl-d_5-perfluoro-1-octane sulfonamidoacetic acid	50.0	200		500
M3HFPO-DA	Wellington Laboratories Code: M3HFPO-DA	$^{13}C_3$-Hexafluoropropylene oxide dimer acid	50.0	200		500

Solvent: Methanol

PFAS Internal Standard Stock Solution 5000 ng/mL

Parent Standard	Vendor	Component	Stock Standard Conc (µg/mL)	Volume Added (µL)	Final Volume (mL)	Final Conc (ng/mL)
13C2 PFOA	Wellington Laboratories Code: M2PFOA	$^{13}C_2$-Perfluorooctanoic acid	50.0	400	4	5000

Solvent: Methanol

PFAS Internal Standard Spiking Solution 1250 ng/mL

Parent Standard	Vendor	Component	Stock Standard Conc (µg/mL)	Volume Added (mL)	Final Volume (mL)	Final Conc (ng/mL)
PFAS Internal Standard Stock Solution	In-house	$^{13}C_2$-Perfluorooctanoic acid	5.0	2.0	8.0	1250

Solvent: Methanol

PFAS-IDA-IS Calibration Standards Level 1-Level 6

ICAL Level	Vol of PFAS LCS/Matrix Spike Stock (µL)	Vol of PFAS MDL Spiking Solution (µL)	Nominal Conc of PFAS (ng/mL)	Vol of PFAS-IDA Solution (µL)	Conc of IDA (ng/mL)	Vol of 0.5ppm PFAS-IS Stock Solution (µL)	Conc of IS (ng/mL)	Vol of 80/20 MeOH/H2O (µL)	Final Vol (mL)
1	0	2	0.050	10	1.25	4	1.25	3988	4.0
2	0	2	0.10	5	1.25	2	1.25	1993	2.0
3	0	10	0.50	5	1.25	2	1.25	1985	2.0
4	12	0	1.0	30	1.25	12	1.25	11958	12.0
5	30	0	2.5	30	1.25	12	1.25	11940	12.0
6	20	0	10.0	5	1.25	2	1.25	1975	2.0

The solvent is 80/20 Methanol/Water.

Appendix C: Equations

Initial Calibration Curve Evaluation:

The linear curve uses the following function:

Equation 1

$$y = bx + c$$

Where:

y = $\frac{\text{Area (analyte)}}{\text{Area (IS)}} \times \text{Concentration (IS)}$
x = concentration
b = slope
c = intercept

The quadratic curve uses the following function:

Equation 2

$$y = ax^2 + bx + c$$

Where y, x, b, and c are the same as above, and a = curvature.

The external standard method uses the following equation:

Equation 3

$$ResponseFactor = \frac{Peak\ Area}{Concentration\ of\ Solution (ng/mL)}$$

Equation 4

$$\text{Concentration, ng/mL} = \frac{y - c}{b}$$

Equation 5

$$\text{Concentration, ng/mL} = \frac{-b + \sqrt{b^2 - 4a(c - y)}}{2a}$$

Where:

y = $\frac{\text{Area (analyte)}}{\text{Area (IS)}} \times \text{Concentration (IS)}$
x = concentration
a = curvature
b = slope
c = intercept

Water Sample Result Calculation:

Equation 6

$$\text{Concentration, ng/L} = \frac{C_{ex} V_t}{V_o}$$

Where:

C_{ex} = Concentration measured in sample extract (ng/mL)
V_t = Volume of total extract (mL)
V_o = Volume of water extracted (L)

IDA Recovery Calculation:

Equation 8

$$\%\,\text{Recovery} = \frac{A_t Q_{is}}{A_{is} Q_t RRF_{IDA}} X100$$

Where ng/g = µg/kg and:

RF_{IDA} = Response Factor for IDA compound
A_t = Area response for IDA compound
A_{IS} = Area Response for IS compound
Q_{IS} = Amount of IS added
Q_t = Amount of IDA added

Calibration Factor (CF_x) = $\frac{\text{Peak area or height}_{(x)}}{\text{Standard concentration}_{(\mu g/L)}}$

Mean Calibration Factor ($\overline{CF}$) = $\frac{\sum_{i=1}^{n} CF_i}{n}$

where: n = number of calibration levels

Standard Deviation of the Calibration Factor (SD) = $\sqrt{\frac{\sum_{i=1}^{n}\left(CF_i - \overline{CF}\right)2}{n-1}}$

where: n = number of calibration levels

Percent Relative Standard Deviation (RSD) of the Calibration Factor =

$$\frac{SD}{\overline{CF}} \times 100\%$$

Percent Difference (%D) = $\frac{CF_v - \overline{CF}}{\overline{CF}} \times 100\%$

where: CF_v = Calibration Factor from the Continuing Calibration Verification (CCV)

Percent Drift = $\frac{\text{Calculated Concentration} - \text{Theoretical Concentration}}{\text{Theoretical Concentration}}$ x 100%

Percent Recovery (%R) = $\frac{C_s}{C_n} \times 100\%$

where: C_s = Concentration of the Spiked Field or QC Sample
C_n = Nominal Concentration of Spike Added

Percent Recovery (%R) for MS/MSD = $\frac{C_s - C_u}{C_n} \times 100\%$

where: C_s = Concentration of the Spiked Sample
C_u = Concentration of the Unspiked Sample
C_n = Nominal Concentration of Spike Added

Relative Percent Difference (%RPD) = $\frac{|C_1 - C_2|}{\left(\frac{C_1 + C_2}{2}\right)} \times 100\%$

where: C_1 = Measured Concentration of First Sample
C_2 = Measured Concentration of Second Sample

Sample Concentration

Extract

$C_{extract}$ (µg/L) = $\frac{\text{Peak Area (or Height)}}{\overline{\text{CF}}}$

Note: The concentrations of the 3-5 peaks chosen for quantificaton is calculated and the average is then taken for final calculation.

Appendix D: Analytes applied for Secondary Certification with NJDEP

Compound Name	Abbreviation	CAS #
Perfluorobutanoic acid	PFBA	375-22-4
Perfluoropentanoic acid	PFPeA	2706-90-3
Perfluorohexanoic acid	PFHxA	307-24-4
Perfluoroheptanoic acid	PFHpA	375-85-9
Perfluorooctanoic acid	PFOA	335-67-1
Perfluorononanoic acid	PFNA	375-95-1
Perfluorodecanoic acid	PFDA	335-76-2
Perfluoroundecanoic acid	PFUdA (PFUnA)	2058-94-8
Perfluorododecanoic acid	PFDoA	307-55-1
Perfluorotridecanoic acid	PFTrDA	72629-94-8
Perfluorotetradecanoic acid	PFTeDA (PFTA)	376-06-7
Perfluorobutanesulfonic acid	PFBS	375-73-5
Perfluorohexanesulfonic acid	PFHxS	355-46-4
Perfluorooctanesulfonic acid	PFOS	1763-23-1

Title: Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometery (GC/MS), SW846 Methods 8270D and 8270E

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Approvals (Signature/Date):

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1.0 Scope and Application

1.1 Analytes, Matrix(s), and Reporting Limits

USEPA Methods 8270D and 8270E are analytical methods which employ the use of GC/MS to determine the concentration of semivolatile organic compounds in extracts prepared from many types of solid waste matrices, soils, and water samples

TestAmerica Edison has the capability to analyze and report the compounds listed in Table 1 via Methods 8270D and 8270E.

Table 1

Compound	CAS No.	Compound	CAS No.
1,1'-Biphenyl	92-52-4	Anthracene **(1)**	120-12-7
1,2,4,5-Tetrachlorobenzene	95-94-3	Atrazine	1912-24-9
1,2,4-Trichlorobenzene	120-82-1	Benzaldehyde	100-52-7
1,2-Dichlorobenzene	95-50-1	Benzidine	92-87-5
1,2-Diphenylhydrazine	122-66-7	Benzo[a]anthracene **(1)**	56-55-3
1,3-Dichlorobenzene	541-73-1	Benzo[a]pyrene **(1)**	50-32-8
1,3-Dimethylnaphthalene	575-41-7	Benzo[b]fluoranthene **(1)**	205-99-2
1,4-Dichlorobenzene	106-46-7	Benzo[g,h,i]perylene **(1)**	191-24-2
1,4-Dichlorobenzene-d4 **(ISTD)**	3855-82-1	Benzo[k]fluoranthene **(1)**	207-08-9
1,4-Dioxane **(1) (2)**	123-91-1	Benzoic acid	65-85-0
1-Methylnaphthalene	90-12-0	Benzyl alcohol	100-51-6
1-Naphthylamine	134-32-7	Bis(2-chloroethoxy)methane	111-91-1
2,2'-oxybis[1-chloropropane]	108-60-1	Bis(2-chloroethyl)ether **(1)**	111-44-4
2,3,4,6-Tetrachlorophenol	58-90-2	Bis(2-ethylhexyl) phthalate	117-81-7
2,3,7,8-TCDD	1746-01-6	Bisphenol-A	80-05-7
2,3-Dihydroindene	496-11-7	Butyl benzyl phthalate	85-68-7
2,3-Dimethylaniline	87-59-2	Caprolactam	105-60-2
2,4,5-Trichlorophenol	95-95-4	Carbamazepine	298-46-4
2,4,5-Trimethylaniline	137-17-7	Carbazole	86-74-8
2,4,6-Tribromophenol **(Surrogate)**	118-79-6	Chrysene **(1)**	218-01-9
2,4,6-Trichlorophenol	88-06-2	Chrysene-d12 **(ISTD)**	1719-03-5
2,4-Dichlorophenol	120-83-2	Coumarin	91-64-5
2,4-Dimethylphenol	105-67-9	Dibenz(a,h)anthracene **(1)**	53-70-3
2,4-Dinitrophenol	51-28-5	Dibenzofuran	132-64-9
2,4-Dinitrotoluene	121-14-2	Diethyl phthalate	84-66-2
2,4-Xylidine	95-68-1	Dimethyl phthalate	131-11-3
2,6-Dinitrotoluene	606-20-2	Di-n-butyl phthalate	84-74-2
2-Chloronaphthalene	91-58-7	Di-n-octyl phthalate	117-84-0
2-Chlorophenol	95-57-8	Fluoranthene **(1)**	206-44-0
2-Ethylaniline	578-54-1	Fluorene **(1)**	86-73-7
2-Fluorobiphenyl **(Surrogate)**	321-60-8	Hexachlorobenzene **(1)**	118-74-1
2-Fluorophenol **(Surrogate)**	367-12-4	Hexachlorobutadiene	87-68-3
2-Methylnaphthalene	91-57-6	Hexachlorocyclopentadiene	77-47-4
2-Methylphenol	95-48-7	Hexachloroethane	67-72-1
2-Naphthylamine	91-59-8	Indeno[1,2,3-cd]pyrene **(1)**	193-39-5
2-Nitroaniline	88-74-4	Isophorone	78-59-1
2-Nitrophenol	88-75-5	n,n'-Dimethylaniline	121-69-7
2-tertbutyl-4-methylphenol	2409-55-4	Naphthalene **(1)**	91-20-3
2-Toluidine	95-53-4	Naphthalene-d8 **(ISTD)**	1146-65-2

Table 1

Compound	CAS No.	Compound	CAS No.
3 & 4 Methylphenol	15831-10-4	n-Decane	124-18-5
3,3'-Dichlorobenzidine	91-94-1	Nitrobenzene	98-95-3
3,4-Dimethylaniline	95-64-7	Nitrobenzene-d5 **(Surrogate)**	4165-60-0
3,5-di-tert-butyl-4-hydroxytol	128-37-0	N-Nitrosodimethylamine **(1)**	62-75-9
3-Nitroaniline	99-09-2	N-Nitrosodi-n-propylamine	621-64-7
4,6-Dinitro-2-methylphenol **(1)**	534-52-1	N-Nitrosodiphenylamine	86-30-6
4-Bromophenyl phenyl ether	101-55-3	n-Octadecane	593-45-3
4-chloro-2-methylaniline	95-69-2	o-Toluidine-d9 **(Surrogate)**	194423-47-7
4-Chloro-3-methylphenol	59-50-7	Pentachloronitrobenzene	82-68-8
4-Chloroaniline	106-47-8	Pentachlorophenol **(1)**	87-86-5
4-Chloroaniline–d4 **(Surrogate)**	191656-33-4	Perylene-d12 **(ISTD)**	1520-96-3
4-Chlorophenyl phenyl ether	7005-72-3	Phenanthrene **(1)**	85-01-8
4-Methylphenol	106-44-5	Phenanthrene-d10 **(ISTD**)	1517-22-2
4-Nitroaniline	100-01-6	Phenol	108-95-2
4-Nitrophenol	100-02-7	Phenol-d5 **(Surrogate)**	4165-62-2
Acenaphthene **(1)**	83-32-9	Phenyl ether	101-84-8
Acenaphthene-d10 **(ISTD)**	15067-26-2	Pyrene **(1)**	129-00-0
Acenaphthylene **(1)**	208-96-8	Pyridine	110-86-1
Acetophenone	98-86-2	Terphenyl-d14 **(Surrogate)**	1718-51-0
Aniline	62-53-3	Total Cresols	STL00160
Aniline-d5 **(Surrogate)**	4165-61-1		

(1) Compound can be analyzed by full scan or Selected Ion Monitoring (SIM).
(2) Compound can also be analyzed by Isotope Dilution/SIM.

1.2 For a listing of method detection limits (MDLs) and Reporting Limits (RLs) please refer to the currently active Method 8270 Method Limit Groups in TALS (TestAmerica LIMS).

1.3 On occasion clients may request modifications to this SOP. These modifications are handled following the procedures outlined in Section 7 (*Review of Work)*, and Section 19 (*Test Methods and Method Validation)* in TestAmerica Edison's Quality Assurance Manual (TestAmerica Edison Document No. ED-QA-LQM).

1.4 Any variation in procedure shall be completely documented using an NCM. The NCM is approved by the supervisor and then automatically sent to the laboratory Project Manager by e-mail so that the client can be notified as appropriate. The QA department also receives NCMs by e-mail for tracking and trending purposes. The NCM process is described in more detail in SOP ED-GEN-003. The NCM shall be filed in the project file and addressed in the case narrative. Any unauthorized deviations from this procedure must also be documented as a nonconformance, with a cause and corrective action described.

2.0 Summary of Method

2.1 This method is used for the analysis of aqueous and solid matrices for semi-volatile base, neutral and acid organic compounds that are extracted from the sample matrix with an organic solvent.

2.2 An aliquot of sample containing surrogate spiking compounds is extracted with an organic solvent. The extract is concentrated on a steam bath to a suitable volume. Internal standards are added to the extract.

2.3 Sample extraction techniques are specified for each matrix in the following TestAmerica Edison SOPs:

- ED-ORP-002 (*Extraction of Semivolatile Organic Compounds in Water by Separatory Funnel, SW846 Method 3510C*);
- ED-ORP-043 (*SW846 Method 3580A - Waste Dilution Prep for Analysis of BNAs by SW846 Method 8270);*
- ED-ORP-0044 (*Microwave Extraction for Solids, SW846 Method 3546*);

2.4 A small aliquot of the extract is injected into a gas chromatograph (GC) equipped with a capillary column. The GC is temperature programmed to separate the compounds which were recovered during the extraction step by boiling point. The effluent of the gas chromatograph is interfaced to a mass spectrometer (MS) which is used to detect the compounds eluting from the GC. The detected compounds are fragmented with an electron beam to produce a mass spectrum which is characteristic of the compound introduced into the MS. Identification of target analytes is accomplished by comparing their mass spectra with the electron ionization spectra of authentic standards. Quantitation is accomplished by comparing the response of a major ion (quantitation ion) relative to an internal standard established through a five-point calibration (six points for second order regression). Specific calibration and quality control steps are included in the method that must be performed and must meet the specifications of SW846 Methods 8270D or 8270E as applicable.

2.5 The standard preparation procedure for aqueous samples involves use of a Reduced Volume Extraction (250 ml) (RVE) followed by analysis using a Large Volume Injection (LVI). Optionally, a full volume (1000 ml nominal) may be employed. The details of the extractions are outlined in the applicable prep SOPs while the analytical details for 8270D and 8270E are presented in this SOP.

2.6 These methods are also applicable to the analysis of samples by Selected Ion Monitoring (SIM) for the purpose of obtaining lower reporting limits for the following compounds:

Table 2 – SIM Analytes

SIM Analytes	CAS #
1,4-Dioxane	123-91-1
4,6-Dinitro-2-methylphenol	534-52-1
Acenaphthene	83-32-9

Table 2 – SIM Analytes	
SIM Analytes	**CAS #**
Acenaphthylene	208-96-8
Anthracene	120-12-7
Benzo[a]anthracene	56-55-3
Benzo[a]pyrene	50-32-8
Benzo[b]fluoranthene	205-99-2
Benzo[g,h,i]perylene	191-24-2
Benzo[k]fluoranthene	207-08-9
Bis(2-chloroethyl)ether	111-44-4
Chrysene	218-01-9
Dibenz(a,h)anthracene	53-70-3
Fluoranthene	206-44-0
Fluorene	86-73-7
Hexachlorobenzene	118-74-1
Indeno[1,2,3-cd]pyrene	193-39-5
Naphthalene	91-20-3
N-Nitrosodimethylamine	62-75-9
Pentachlorophenol	87-86-5
Phenanthrene	85-01-8
Pyrene	129-00-0

2.7 An isotope dilution selected ion monitoring (SIM) technique for the analysis of 1,4-dioxane in water at a reporting level of 0.4 ug/l is also described in this SOP. Using this technique 1,4-dioxane-d8 is added prior to sample extraction and is used as an internal standard to calculate the concentration of 1,4-dioxane present. Additionally, 1,4-dichorobenzene-d4 is added to the extract prior to analysis to monitor the recovery of 1,4-dioxane-d8.

3.0 Definitions

For a complete list of definitions refer to Appendix 2 in the most current revision of the Quality Assurance Manual (ED-QA-LQM).

4.0 Interferences

4.1 GC/MS data from all blanks, samples, and spikes must be evaluated for interferences. Analysts must take steps to determine the source of the interference and take corrective action to eliminate the problem.

4.1.1 Contamination by carryover can occur whenever high-concentration and low-concentration samples are sequentially analyzed. To reduce

carryover, the sample syringe is automatically rinsed with solvent between sample injections. Whenever an unusually concentrated sample is encountered, it should be followed by the analysis of a solvent blank to check for cross-contamination. Alternately, verify that the sample analyzed after the high concentration sample does not show any carryover through inspection of chromatogram and target results.

4.1.2 Contaminants from the extraction process detected in the method blank should be evaluated to determine the impact on the analysis. Interferences from any target analyte must not be present in the method blank above the reporting limit for that compound. If these types of interferences occur, corrective action is required. The source should be identified and corrective action initiated to eliminate the interference from the extraction process. Affected samples must be re-extracted and re-analyzed.

4.1.3 The analyst must take precautions to make sure that contaminants do not enter the analytical system. These precautions include systematic procedures designed to eliminate interferences.

4.2 Some compounds analyzed by this method are unstable or sensitive to extraction and/or instrument conditions:

- Benzidine is easily oxidized during extraction. Neutral extraction may enhance the recovery of this compound.
- Hexachlorocyclopentadiene breaks down photochemically and can decompose from high temperatures, particularly in the injection port of the GC. This compound can also react with acetone in solution.
- 1,2-Diphenylhydrazine is unstable even at room temperature and readily converts to azobenzene.
- Phenols are sensitive to active sites and can give a low response or exhibit poor chromatography by tailing. Therefore, it is important the GC is maintained in the best possible condition. See Section 10.1 for proper daily maintenance.
- N-Nitrosodiphenylamine decomposes in the gas chromatographic inlet and cannot be distinguished from diphenylamine.
- 3-Methylphenol cannot be separated from 4-methylphenol by the conditions specified in this method. They are reported as 3 and 4-methylphenol.
- Pyridine may perform poorly at the GC injection port temperatures listed in this SOP. Lowering the injection port temperature may reduce the amount of degradation.

5.0 Safety

Employees must abide by the policies and procedures in the Corporate Environmental Health and Safety Manual (CW-E-M-001) and this document. This procedure may involve hazardous material, operations and equipment. This SOP does not purport to address all of the safety problems associated with its use. It is the responsibility of the user of the method to follow appropriate safety, waste disposal and health practices under the assumption that all samples and reagents are potentially hazardous. Safety glasses, gloves, lab coats and closed-toe, nonabsorbent shoes are a minimum.

5.1. Specific Safety Concerns or Requirements

The gas chromatograph and mass spectrometer contain zones that have elevated temperatures. The analyst needs to be aware of the locations of those zones, and must cool them to room temperature prior to working on them.

The mass spectrometer is under deep vacuum. The mass spectrometer must be brought to atmospheric pressure prior to working on the source.

There are areas of high voltage in both the gas chromatograph and the mass spectrometer. Depending on the type of work involved, either turn the power to the instrument off, or disconnect it from its source of power.

5.2. Primary Materials Used

The following is a list of the materials used in this method, which have a serious or significant hazard rating. **Note: This list does not include all materials used in the method. The table contains a summary of the primary hazards listed in the MSDS for each of the materials listed in the table.** A complete list of materials used in the method can be found in the reagents and materials section. Employees must review the information in the MSDS for each material before using it for the first time or when there are major changes to the MSDS.

Material (1)	Hazards	Exposure Limit (2)	Signs and symptoms of exposure
Methanol	Flammable Poison Irritant	200 ppm-TWA	A slight irritant to the mucous membranes. Toxic effects exerted upon nervous system, particularly the optic nerve. Symptoms of overexposure may include headache, drowsiness and dizziness. Methyl alcohol is a defatting agent and may cause skin to become dry and cracked. Skin absorption can occur; symptoms may parallel inhalation exposure. Irritant to the eyes.
Methylene Chloride	Carcinogen Irritant	25 ppm-TWA 125 ppm-STEL	Causes irritation to respiratory tract. Has a strong narcotic effect with symptoms of mental confusion, light-headedness, fatigue, nausea, vomiting and headache. Causes irritation, redness and pain to the skin and eyes. Prolonged contact can cause burns. Liquid degreases the skin. May be absorbed through skin.
Toluene	Flammable Poison Irritant	200 ppm-TWA 300 ppm-Ceiling	Inhalation may cause irritation of the upper respiratory tract. Symptoms of overexposure may include fatigue, confusion, headache, dizziness and drowsiness. Peculiar skin sensations (e. g. pins and needles) or numbness may be produced. Causes severe eye and skin irritation with redness and pain. May be absorbed through the skin.
Dimethyl-dichloro-silane	Flammable	none	Can be corrosive to the respiratory tract causing severe irritation and tissue damage. Harmful if absorbed through the skin. May cause severe irritation and systemic damage. Severely irritating to the skin and eyes. Harmful if swallowed. Can cause abdominal discomfort, nausea, vomiting, diarrhea, and irritation to the mouth, throat and stomach.
1 – Always add acid to water to prevent violent reactions.			
2 – Exposure limit refers to the OSHA regulatory exposure limit.			

6.0 Equipment and Supplies

6.1 Gas chromatograph/mass spectrometer system

6.1.1 Gas chromatograph: An Agilent/HP 6890/7890/900 Intuvo (or equivalent) houses the capillary column. The GC provides a splitless injection port and allows the column to be directly coupled to the mass spectrometer. The oven is temperature programmable to meet the requirements of the method. An HP/Agilent 7673/7683/7963 autosampler (or equivalent) with a 10 ul syringe provides automatic injection of sample extracts while the instrument is unattended.

6.1.2 Analytical Column: 30m x 0.25mm ID, 0.25 um film thickness, Restek Rxi-5Sil MS, Catalog #13623

6.1.3 Mass spectrometer: Agilent (HP) 5972, 5973, 5975 or 5977A Mass Selective Detector (MSD) Capable of scanning from 35 to 500 amu every 1 sec or less, using 70 volts electron energy in the electron ionization mode. The mass spectrometer must be capable of producing a mass spectrum for 50 ng of decafluorotriphenylphosphine (DFTPP) which meets the criteria in Section 9.2.1 when 2 ul of the 25 ug/ml GC/MS tuning standard is injected through the GC.

6.1.4 GC/MS interface: Any GC-to-MS interface may be used that gives acceptable calibration points at 50 ng per injection for each compound of interest and achieves acceptable tuning performance criteria.

6.1.5 Data system: The data system is interfaced to the mass spectrometer and accommodates continuous acquisition and storage of GC/MS data throughout the duration of the chromatographic program. The data system consists of a Hewlett-Packard Chemstation equipped with Mustang software used for instrument control and data acquisition. This, in turn, is interfaced to TestAmerica's Chrom software for data processing. Data from sample extract analysis can be accessed in real-time, while sample data reports and library searches can be performed on data files from previously run samples. The software is also capable of searching any GC/MS data file for ions of a specific mass whose abundances can be plotted versus time or scan number which allows integration of abundances for any extracted ion between specified times or scan-number limits. Library searches utilize a NIST 02.1 Mass Spectral Library.

6.2 Bottles, glass with polytetrafluoroethylene (PTFE)-lined screw caps or crimp tops.

6.3 Injection port liners, splitless

6.4 Injection port septa

6.5 Injection port graphite seals

6.6 Pre-silanized glass wool (Supelco 2-0411 or equivalent)

6.7 Syringes, Assorted sizes 10ul - 1000ul; gas-tight

6.8 Bottles, 10 and 5ml amber screw cap with Teflon liner

6.9 Vials, 2ml amber screw cap with Teflon liner

6.10 Wheaton microvials 100ul (or equivalent)

6.11 Volumetric Flasks, Class A with ground glass stoppers (2ml - 100ml)

6.12 Analytical balance, ASP Model SP-180 (or equivalent), capable of accurately weighing to 0.0001 gr.

7.0 Reagents and Standards

The following items are recommended for performing this procedure. Equivalent items should only be used when they result in an improvement in quality, efficiency, productivity, or cost. An item can be considered equivalent if with its use, the analytical and QA/QC requirements in this SOP can be met. Please refer to the MSDS prior to the use of any reagent or standard.

The preparation of standards, surrogates and spiking solutions is documented in the TALS Reagent Module. Formulary reports can be generated upon request.

7.1. Reagents:

7.1.1. Methylene Chloride: J.T.Baker Resi-Analyzed, used for Organic Residue Analysis (P/N 9266-V8 or equivalent).

7.1.2. Methanol: J.T.Baker Purge and Trap Grade (P/N 9077-02 or equivalent).

7.1.3. Sylon-CT: Supelco (P/N 33065-U or equivalent). Sylon-CT is a highly reactive silanizing reagent consisting of 95% Toluene and 5% Dimethyldichlorosilane (DMDCS).

7.1.4. Each lot of solvent is screened for contaminants before being used for analysis as detailed in TestAmerica Corporate Quality SOP No. CA-Q-S-001 (*Solvent & Acid Lot Testing & Approval*) and TestAmerica Edison SOP No. ED-GEN-023 (*Bulk Solvent Testing and Approval*).

7.2. Standards:

7.2.1. Calibration Standards (Full Scan Analysis): Stock analytical standard solutions are purchased mainly from Restek Corporation. Other standards are prepared in the laboratory as needed using neat compounds or prepared solutions purchased from Agilent, SPEX CertiPrep, Chem Service,

Accustandard, Supelco or other suppliers. Standards prep instructions are detailed for the following full scan analyte list options:

- Full Volume Aqueous Prep; and,
- Reduced Volume Aqueous Prep and Soils

Secondary dilutions are either made from purchased stock solutions as listed below or from prepared solutions as listed in the following table:

NOTE: Second sources (from certified separate lots) are used for ICV standards.

Table 3 – Full Scan Stock Standards			
Target Analyte Standard Name	**Conc. (PPM)**	**Vendor**	**Catalog #**
1,2,3,4-TCDD	50	SPEX	SVO-TANJ-12
Agilent Mix (contains compounds listed in Table 4 below)	2000 *	Agilent	Cus 0456
8270 List 1/ Std #1 Megamix	Varied	Restek	571995
8270 List 1/ Std#9	2000	Restek	569730
8270 List 1/ Std#11	2000	Restek	569732
8270 Surrogate Standard	5000*	Restek	567685
8270 Internal Standard	2000	Restek	567684
8270 List 1/ Std#10	2000	Restek	569731
Bisphenol-A	1000	Agilent	Cus-0457

*Agilent Mix, 8270 list1/std#9 and 8270 Surrogate standard are diluted to 100ppm prior to the preparation of the 1.0ppm and 0.5ppm standards.

Table 4	
Agilent Mix Catalog No. Cus-0456	
Analyte	**Concentration (PPM)**
Pentachloronitrobenzene	2000
2 -tert-butyl-4-Methylphenol	2000
2,6-Di-tert-butyl-4-Methylphenol	2000
Coumarin	2000
Phenyl ether	2000
N,N'-Dimethylaniline	2000
N-Methylaniline	2000
Carbamazepine	2000
Benzonitrile	2000
1,3-Dimethylnaphthalene	2000

7.2.1.1. Individual calibration standards for full scan analysis are prepared in one of several ways depending upon the technique (full volume aqueous prep, soils prep, reduced volume prep with LVI) as well as the target analyte list. The following tables detail the preparation of calibration standard solutions for each of these techniques and analyte lists. Prepare by combining the indicated volumes of each stock solution using volumetric flask. Dilute to the volume marker with methylene chloride.

Table 5
Full Volume Aqueous Prep and Soils
Working Standards Preparation

Solution Name	120 PPM	80 PPM	50 PPM	20 PPM	10 PPM	5 PPM	2 PPM	1 PPM	0.5 PPM
8270 List 1/ Std #1 Megamix	3000 ul	2000 ul	2500 ul	500ul	250ul	250ul	100ul	50ul	25ul
8270 List 1/ Std #9	1500 ul	1000 ul	1250 ul	250ul	125ul	125ul	50ul	500ul*	250ul *
8270 List 1/ Std #10	1500 ul	1000 ul	1250 ul	250ul	125ul	125ul	-	-	-
Agilent custom Mix	1500 ul	1000 ul	1250 ul	250ul	125ul	125ul	50ul	500ul*	250ul *
1,2,3,4-TCDD	-	-	500ul	-	-	-	-	-	-
8270 Surrogate Standard	600ul	400ul	500ul	100ul	50ul	50ul	20ul	500ul*	250ul *
8270 Internal Standard	500ul	500ul	1000 ul	500ul	500ul	1000 ul	1000 ul	1000 ul	1000 ul
Bisphenol-A	3000 ul	2000 ul	2500 ul	500ul	250ul	250ul	100ul	-	-
8270 List 1/ Std #11	400ul	300ul	500ul	200ul	125ul	125ul	50ul	25ul	-
Final Volume (ml)	**25**	**25**	**50**	**25**	**25**	**50**	**50**	**50**	**50**

Note: The 1.0ppm and 0.5pmm standards (above) are prepared using the 100ug/ml standard for Agilent custom Mix, 8270 List1/std#9 and 8270 Surrogate Standard.

Table 6
Reduced Volume Extraction/LVI
Working Standards Preparation

Solution Name	24 PPM	16 PPM	10 PPM	4 PPM	2 PPM	1 PPM	0.4 PPM	0.2 PPM	0.1 PPM
120 ppm (see Table 5)	2.0mL								
80 ppm (see Table 5)		2.0 mL							
50 ppm (see Table 5)			2.0 mL						
20 ppm (see Table 5)				2.0 mL					

Table 6 Reduced Volume Extraction/LVI Working Standards Preparation									
Solution Name	**24 PPM**	**16 PPM**	**10 PPM**	**4 PPM**	**2 PPM**	**1 PPM**	**0.4 PPM**	**0.2 PPM**	**0.1 PPM**
10 ppm (see Table 5)					2.0 mL				
5.0 ppm (see Table 5)						2.0 mL			
2.0 ppm (see Table 5)							2.0mL		
1.0 ppm (see Table 5)								2.0 mL	
0.5 ppm (see Table 5)									2.0mL
Final Volume (ml)	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**

7.2.1.2. **Initial Calibration Verification (full scan)**: Second source ICVs for full scan analysis are prepared in one of several ways depending upon the technique (full volume aqueous prep, soils prep, reduced volume prep with LVI) as well as the target analyte list. The following tables detail the preparation of ICVs for each of these techniques and analyte lists. Prepare by combining the indicated volumes of each stock solution using volumetric flask. Dilute to the volume marker with methylene chloride.

Table 7 8270/625 ICV Working Standards Preparation	
Solution Name	**25 PPM**
8270 List 1/ Std #1 Megamix (2nd Lot)	250ul
8270 List 1/ Std #9 (2nd Lot)	125ul
8270 List 1/ Std #10 (2nd Lot)	125ul
Agilent custom Mix (2nd Lot)	125ul
8270 Internal Standard	200ul
8270 List 1/ Std#11	125ul
Bisphenol-A (2nd Lot)	250ul
Final Volume (ml)	**10**

7.2.1.3. **Surrogate Standards (Full Scan Analysis):** A 5000ppm Surrogate Standard is purchased from Restek for use in spiking blanks, samples and associated QC prior to extraction (reference the applicable sample prep SOPs for spiking instructions).

Table 8 Full Scan Surrogate Standards Solution Restek Catalog No. 567685	
Surrogate Standard Compounds	**Concentration (PPM)**
Nitrobenzene-d5	5000
p-Terphenyl-d14	5000
2,4,6-Tribromophenol	5000
Phenol-d5	5000
2-Fluorobiphenyl	5000
2-Fluorophenol	5000

7.2.1.4. **Internal Standards** (**Full Scan Analysis**): The Internal Standards Solution at 2000ppm is purchased from Restek (Catalog # 567684). The Internal Standard solution is stored in 10ml amber screw cap bottles with Teflon liners in the dark at 4°C. The Internal standard solution is used in preparing all analytical standards. Inject 20ul of this solution (2000ppm) per ml of sample extract prior to analysis resulting in a concentration of 40ppm (ug/ml) in the extract.

Table 9 Full Scan Internal Standards Solution Restek Catalog No. 567684	
Internal Standard Compounds	**Concentration (PPM)**
1,4-Dichlorobenzene-d4	2000
Phenanthrene-d10	2000
Naphthalene-d8	2000
Chrysene-d12	2000
Acenaphthene-d10	2000
Perylene-d12	2000

7.2.2. **Calibration Standards (SIM analysis)**: The Edison lab currently analyzes only a select list of compounds by 8270D/8270E SIM (see Sections 1.0 and 2.0). Stock analytical SIM standard solutions are purchased mainly from Accustandard. Working standards are prepared from these solutions as listed in the tables in Section 7.2.2.1:

Table 10 Stock SIM Standards			
Standard Name	**Concentration**	**Vendor**	**Catalog #**
Pentachlorophenol	100ppm	Accustandard	App-9-176
n-Nitrosodimethylamine	100ppm	Accustandard	APP-9-149
Hexachlorobenzene	100ppm*	Accustandard	APP-9-112
PAH Mix	100ppm	Accustandard	M-610
Bis(2-chloroethyl)ether	100ppm*	Accustandard	App-9-027
4,6-Dinitro-2-methylphenol	100ppm	Accustandard	P-3845
1,4-Dioxane	1000ppm**	Accustandard	APP-9-096

*Hexachlorobenzene and Bis(2-chloroethyl)ether are diluted to 10ppm prior to SIM Standards prep

** 1,4-Dioxane is diluted (10x) to 100ppm prior to SIM Standards prep

NOTE: Second sources (from separate lots are used for ICV standards).

7.2.2.1 Individual calibration standards for SIM analysis are prepared in one of two ways depending upon the technique (full volume aqueous prep or reduced volume prep with LVI) as well as the target analyte list. The following tables detail the preparation of calibration standard solutions for each of these techniques and analyte lists. Prepare by combining the indicated volumes of each stock solution using volumetric flask. Dilute to the volume marker with methylene chloride.

Table 11
Full Volume Aqueous Prep – SIM
Working Standards Preparation

	0.025 PPM	**0.05 PPM**	**0.1 PPM**	**0.5 PPM**	**1.0 PPM**	**5.0 PPM**
Pentachlorophenol	10uL	25uL	50uL	50uL	100uL	250uL
n-Nitrosodimethylamine	10uL	25uL	50uL	50uL	100uL	250uL
PAH mix	2.5uL	5uL	100uL	25uL	50uL	100uL
Hexachlorobenzene	10uL	25uL	100uL	500uL	1000uL	2500uL
Bis(2-chloroethyl)ether	10uL	25uL	100uL	500uL	1000uL	250uL*
4,6-dinitro-2-methylphenol	50ul	100ul	200ul	200ul	250ul	500ul
1,4-Dioxane	20ul	50ul	100ul	100ul	200ul	500ul
ISTD	200uL	200uL	200uL	100uL	100uL	100uL
Final Volume (ml)	**10**	**10**	**10**	**5**	**5**	**5**

*For Bis(2-chloroethyl)ether the 5.0 ppm level is prepared using the 100ppm standard.

Table 12
Reduced Volume Extraction/LVI – SIM
Working Standards Preparation

	0.005 PPM	**0.01 PPM**	**0.02 PPM**	**0.10 PPM**	**0.20 PPM**	**1.0 PPM**
0.025 PPM Std (see Table 11)	1.0 mL					
0.05 PPM Std (see Table 11)		1.0 mL				
0.1 PPM Std (see Table 11)			1.0 mL			
0.5 PPM Std (see Table 11)				1.0 mL		
1.0 PPM Std (see Table 11)					1.0 mL	
5.0 PPM Std (see Table 11)						1.0 mL
Final Volume (ml)	**5**	**5**	**5**	**5**	**5**	**5**

7.2.2.2 Initial Calibration Verification (SIM): A 0.1 ppm separate lot SIM ICV is prepared as detailed in Table 13 using the stock standards detailed in Section 7.2.2 (above)

Table 13 0.1ppm SIM ICV preparation	
Pentachlorophenol	25uL
n-Nitrosodimethylamine	25uL
PAH mix	5uL
Hexachlorobenzene	5uL
1,4-Dioxane	5ul
4,6-Dinitro-2-methylphenol	100ul
ISTD	**100uL**
Final Volume	**5 ml**

7.2.2.3 Internal Standard solution (SIM): A 50 ppm Internal Standard solution for SIM analysis is prepared by adding 125ul of the 2000ppm stock ISTD (see Section 7.2.1.4) and bringing to volume with Methylene Chloride in a 5ml volumetric flask.

7.2.2.3.1 For SIM analysis inject 20ul of this solution (50ppm) per ml of sample extract prior to analysis resulting in a concentration of 1ppm (ug/ml) in the extract.

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7.2.3. Calibration Standards (Isotope Dilution SIM – 1,4-Dioxane): The Edison lab currently analyzes only for 1,4-dioxane by 8270D/8270E isotope dilution SIM (see Sections 1.0 and 2.0). Stock analytical isotope dilution SIM standard solutions are purchased mainly from Accustandard and Restek. Working standards are prepared from these solutions as listed in the tables below.

Table 14 - Stock 1,4-Dioxane Isotope Dilution SIM Standards			
Standard Name	**Concentration**	**Vendor**	**Catalog #**
1,4-Dioxane	1000ppm*	Accustandard	APP-9-096

* 1,4-Dioxane is diluted (10x) to 100ppm prior to SIM Standards prep

Table 15 - Stock Labeled 1,4-Dioxane SIM Surrogate/Internal Standard (added at prep)			
Standard Name	**Concentration**	**Vendor**	**Catalog #**
1,4-Dioxane-d8	2000ppm	Restek	30614

Table 16 - Stock 1,4-Dioxane Isotope Dilution SIM Internal Standard (added to extract)			
Standard Name	**Concentration**	**Vendor**	**Catalog #**
1,4-Dichlorobenzene-d4	2000ppm	Accustandard	AZ-014J-3

7.2.3.1 Individual calibration standards for 1,4-dioxane isotope dilution SIM analysis are prepared at the concentrations detailed in the following tables. Prepare by combining the appropriate volumes of each stock solution using volumetric flask. Dilute to the volume marker with methylene chloride.

Table 17
Reduced Volume Extraction/LVI – 1,4-Dioxane Isotope Dilution SIM
ICAL Standard Concentrations (ug/ml)

	Lev 1	Lev 2	Lev 3	Lev 4	Lev 5	Lev 6	Lev 7	Lev 8	ICV*
1,4-Dioxane	0.02	0.04	0.1	0.2	0.5	1	2	10	0.2
1,4-Dioxane-d8	4	4	4	4	4	4	4	4	4
1,4-Dichlorobenzene-d4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

***:** The ICV is prepared from the second source stock in Table 13.

7.2.4. GC/MS Instrument Performance Check (DFTPP): The DFTPP standard is prepared by is prepared at 25 ppm by adding 2.5ml of EPA 8270 GC/MS Tuning Solution II (Restek Catalog # 31615) to a 100ml volumetric flask and bringing to volume with Methylene Chloride.

7.2.5. Information on prepared standard solutions must be recorded in the TALS Reagent Module. Information such as standard supplier, lot number, original concentration, a description of how the standard was made, are required along with the laboratory lot number, analyst's initials, date prepared, expiration date and verification signature. Standards must be remade every 6 months, or sooner, if the standards expire or begin to show signs of unacceptable degradation. Class "A" volumetric must be used at all times and syringes, preferably gas-tight syringes when available, should be checked for accuracy using an analytical balance. Class "A" pipettes should also be used if volumes permit.

7.2.6. Please refer to TestAmerica Edison SOP No. ED-GEN-008, Standard Operating Procedure for Preparation, Purity and storage of Reagents and Standards.

- Shelf Life of Standard: 1 year after preparation or stock standard manufacture expiration, whichever comes first;
- Storage Requirements: Stock standards are stored at 4℃ and Working Standards stored at -10℃ to -20℃.

8.0 Sample Collection, Preservation, Shipment and Storage

8.1 All samples must be stored at 4ºC (± 2ºC) upon receipt.

8.2 Sample Extract Storage. Samples extracts must be protected from light and refrigerated at 4ºC (± 2ºC) from time of extraction until analysis.

8.3 Sample Extract Holding Time. All sample extracts must be analyzed within 40 days of extraction.

Matrix	Sample Container	Min. Sample Size	Preservation	Holding Time	Reference
Waters	Amber glass, 1L	1000 ml or 250 ml (1)	Cool 4 ± 2°C	7 days to extraction; Analyze within 40 days of extraction	EPA Method SW846 8270D/8270E
Solids	Wide mouth glass, 8 or 16 oz.	50g	Cool 4 ± 2°C	14 days to extraction; Analyze within 40 days of extraction	EPA Method SW846 8270D/8270E

(1) : Reduced volume extraction (RVE) LVI option

9.0 Quality Control

9.1. **Sample QC** - The following quality control samples are prepared with each batch of samples.

Quality Controls	Frequency	Control Limit
Method Blank (MB)	1 in 20 or fewer samples	< Rpt. Limit
Laboratory Control Sample (LCS)[1]	1 in 20 or fewer samples	Statistical Limits [4]
Matrix Spike (MS)[2]	1 in 20 or fewer samples	Statistical Limits [4]
MS Duplicate (MSD)[2]	1 in 20 or fewer samples	Statistical Limits [4]
Surrogates	every sample[3]	Statistical Limits [4]
Internal Standards	Every sample	Response within -50% to +100% of CCV

[1] LCS Duplicate (LCD) is performed only when insufficient sample is available for the MS/MSD or when requested by the client/project/contract.
[2] The sample selection for MS/MSD are randomly selected, unless specifically requested by a client….predetermined by the extraction lab.
[3] Analytical and QC samples (MB, LCS, MS/MSD, Method Blank)
[4] Statistical control limits are determined annually and are updated into TALS limit group..

9.1.1. **Method blanks** are extracted with every sample batch on each day that samples are extracted. To be considered acceptable, the method blank must contain less than the reporting limit of all target compounds except for phthalates, which can be present at up to 5x the MDL. For method 8270E

the method blank is generally acceptable if target analyte concentrations are less than the one half the reporting limit.

If method blanks are unacceptably contaminated with target compounds that are also present in field samples, all affected samples must be re-extracted and re-analyzed. Corrective action must be taken to identify and eliminate the contamination source. Demonstrate that acceptable blanks can be obtained before continuing with sample extraction and analysis. Method blanks must be analyzed on each instrument on which the associated samples are analyzed.

9.1.1.1. Surrogate recoveries for the method blank are compared to laboratory generated limits. If two or more surrogates for any one fraction (base-neutral or acid) are outside of recovery limits or if any one surrogate recovers at <10%, the sample must be re-extracted and re-analyzed to confirm matrix interference.. If any surrogate is still outside limits, all samples and QC samples associated with that method blank must be re-extracted (volume permitting).

9.1.2. Matrix Spike (MS)/Matrix Spike Duplicate (MSD): A matrix spike/matrix spike duplicate (MS/MSD) pair is extracted and analyzed with every 20 environmental samples of a specific matrix (defined as a sample batch). Full compound list spiking is employed for MS/MSDs and LCSs. These spikes are prepared and extracted concurrent with sample preparation. MS and MSD recoveries are calculated and compared to lab generated acceptance criteria. See the current active TALS 8270 Method Limit Group for QC limits. The MS/MSD spiking solution should the same as used for the calibration standards.

9.1.2.1 A Laboratory Control Sample Duplicate (LCSD) is extracted and analyzed only when insufficient client sample is available for preparation of an MS/MSD pair. The LCS/LSCD is evaluated in the same manner as the MS/MSD (see Section 9.1.2)

9.1.2.2 An LCS/LCSD may be substituted for the MS/MSD if insufficient sample volume is available.

9.1.3. Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD): A Laboratory Control Sample (LCS) (aka blank spike) must be extracted and analyzed with each batch of 20 environmental samples. The LCS data is used to assess method performance if the MS/MSD recoveries fall outside of the lab generated limits (See the current active TALS 8270 Method Limit Group for QC limits). If the LCS recovery is within the current lab generated limits, the MS/MSD recoveries are attributed to matrix interference.

9.1.3.1 A Laboratory Control Sample Duplicate (LCSD) is extracted and analyzed only when insufficient client sample is available for preparation of an MS/MSD pair. The LCS/LSCD is evaluated in the same manner as the MS/MSD (see Section 9.1.2)

9.1.3.2 Spike recovery limits are lab generated and are updated annually. Certain state regulatory programs have defined recovery limits which, where applicable, are used for spike recovery evaluations. The TALS Method Limit Groups detail these regulatory program criteria.

9.1.4. Surrogate Standards: All full scan samples, blanks and QC samples are spiked with a six (6) component surrogate standard mix (see Section 7.2.1.3). The percent recovery of the surrogate standards is calculated and compared to lab generated limits (See the current active TALS 8270 Method Limit Group for QC limits).

If any two or more surrogates for any one fraction (base-neutral or acid) are outside of recovery limits or if any one surrogate recovers at <10%, the sample must be re-extracted and re-analyzed to confirm matrix interference. If a surrogate is diluted to a concentration below that of the lowest calibration standard, no corrective action is necessary.

9.1.4.1 Surrogate recovery limits are lab generated and are updated annually. Certain state regulatory programs have defined recovery limits which, where applicable, are used for spike recovery evaluations. The TALS Method Limit Groups detail these regulatory program criteria.

9.1.5. Internal Standards: The response (area count) of each internal standard in the sample must be within -50 +100% of its corresponding internal standard in the CCV or, the ICAL midpoint for samples analyzed under the initial calibration range. Failure to meet these criteria is indicative of sample matrix effects. All samples failing these criteria must be reanalyzed to confirm matrix effects.

9.2. Instrument QC

9.2.1 GC/MS Instrument Performance Check (DFTPP): (**Note**: the DFTPP performance check applies only to full scan analyses and is not evaluated for SIM analysis). The GC/MS system is tuned using Perfluortributylamine (PFTBA) such that an injection of 50ng of Decafluorotriphenylphosphine (DFTPP) meet the abundance criteria listed in the table below. Prior to the analysis of any calibration standards or samples, the GC/MS system must meet all DFTPP key ion abundance criteria. This analysis will verify proper tuning of the system for a period of 12 hours post-injection. After 12 hours, the instrument performance must again be verified prior to the analysis of standards, QC or samples. Daily tune verification is not required for 8270E CCV.

DFTPP Key Ions and Abundance Criteria	
Mass	**Ion Abundance Criteria**
51	30-60% of mass 198
68	<2% of mass 69
69	reference only
70	<2% of mass 69
127	40-60% of mass 198
197	<1% of mass 198
198	Base Peak, 100% relative abundance
199	5-9% of mass 198
275	10-30% of mass 198
365	>1% of mass 198
441	present but less than mass 443
442	>40% of mass 198
443	17-23% of mass 442

9.2.1.1. Evaluate DFTPP using three scan averaging and background subtraction techniques. Select the scan at the peak apex, add +1 scan from the apex and -1 scans from the apex.

9.2.1.2. The mass spectrum of DFTPP may be background subtracted to eliminate column bleed or instrument background ions. Background subtract DFTPP by selecting a scan for subtraction ≤20 scans <u>before</u> the apex scan of DFTPP.

9.2.1.3. Check column performance using pentachlorophenol and the benzidine peaks (these compounds are included in the DFTPP solution). Benzidine & Pentachlorophenol should respond normally without significant peak tailing (Tailing Factor should be <2 measured at 10% peak height). If responses are poor and excessive peak tailing is present, corrective action for the GC/MS instrument may be required. Corrective actions may include:

9.2.1.3.1 Retune the GC/MS;
9.2.1.3.2 Clip the injector end of the GC column;
9.2.1.3.3 Replace the septum and injection port liner;
9.2.1.3.4 Change the injection port seal;
9.2.1.3.5 Replace the GC column;
9.2.1.3.6 Clean the injection port with MeCl2
9.2.1.3.7 Clean the MS ion source;
9.2.1.3.8 Place a service call.

9.2.1.4. The breakdown of 4, 4-DDT into 4,4-DDD and 4,4'DDE may also be used to assess GC column performance and injection port inertness. If so evaluated the breakdown must be <20%.

9.2.1.5. DFTPP parameter settings are stored in a tune file, which will be used in all subsequent analysis of standards and sample extracts.

9.2.2 Initial Calibration Range and Initial Calibration Verification

9.2.2.1. Initial Calibration: The initial calibration range consists of a minimum of five concentration levels of analytical standards (six for second order regression) prepared as described in Section 7.2. and analyzed once the DFTPP instrument performance check has met the criteria in Section 9.2.1. .

9.2.2.2. Initial Calibration Verification (ICV): An Initial Calibration Verification (ICV) standard is analyzed immediately after the Initial Calibration Range and before any samples are analyzed. The ICV is prepared as detailed in Section 7.2. The ICV must be from a source (or lot) separate from the standards used in the Initial Calibration Range.

9.2.3 Continuing Calibration Verification (CCV) and Low Level Continuing Calibration Verification (LLCCV): A mid-point Continuing Calibration Verification (CCV) must be analyzed every 12 hours after the DFTPP instrument performance check (when applicable).. The CCV is prepared as detailed in Section 7.2. (typically, 50 ug/ml for full volume aqueous and soils, 10 ug/ml for LV, 0.02 ug/ml for LVI SIM) and 0.2 for isotope dilution SIM). Additionally a Low Level Continuing Calibration Verification (LLCCV) is analyzed after the CCV for full scan analysis. The LLCCV is the same as the lowest calibration level analyzed with the initial calibration range (See Section 7.2).

9.2.4 Calibration Acceptance Summary

9.2.4.1. Retention Time Windows: Retention time windows must be established to compensate for minor shifts in absolute retention times as a result of sample loading and normal chromatographic variability. Obtain the retention time for all compounds from the analysis of the midpoint standard for the calibration curve. Establish the center of the retention time window by using the absolute retention time for each analyte, internal standard and surrogate from the calibration verification standard at the beginning of the analytical shift. For samples run during the same shift as an initial calibration, use the retention time of the mid-point standard of the initial calibration. For qualitative identification to be acceptable the retention time of the relative retention time (automatically calculated in Chrom) must be within 0.8 - 1.2 RRT units of its assigned internal standard. The relative retention times of each compound in the five calibration standards must agree within .06 relative retention time units.

9.2.4.2. **Initial Calibration Range:** Internal standard calibration is employed for this method. After the initial calibration range has been analyzed the relative response factor (RRF) for each target/surrogate compound at each concentration level is determined using the following equation.

$$RRF = \frac{A_x}{A_{is}} \times \frac{C_{is}}{C_x}$$

Where:
A_x = Area characteristic ion (see Table 21) for the compound
Ais = Area characteristic ion (see Table 21) of associated internal standard
Cis = Concentration of internal standard
Cx = Concentration of compound in standard

9.2.4.2.1. Determine the mean RRF for each compound. Minimum response factors must be met for each of the compounds listed in Table 18 (below). Any compound that fails the minimum response factor must be reported as estimated for detects and must have a demonstration of sensitivity in the analytical batch to report non-detects. To demonstrate adequate sensitivity for out of criterion compounds analyze the low level point of the calibration (LLCCV) in the analytical sequence. The criterion for the LLCCV is detection only but the standard qualitative identification criteria in the method must be met.

Table 18: Minimum Response Factors

Compound	Minimum Response Factor
Benzaldehyde	0.010
Phenol	0.800
Bis(2-chloroethyl) ether	0.700
2-Chlorophenol	0.800
2-Methylphenol	0.700
2,2-Oxybis-(1-chloropropane)	0.010
Acetophenone	0.010
4-Methylphenol	0.600
N-Nitroso-di-n-propylamine	0.500
Hexachloroethane	0.300
Nitrobenzene	0.200
Isophorone	0.400
2-Nitrophenol	0.100
2,4-Dimethylphenol	0.200
Bis(2-chloroethoxy)methane	0.300
2,4-Dichlorophenol	0.200
Naphthalene	0.700

Table 18: Minimum Response Factors	
Compound	**Minimum Response Factor**
4-Chloroaniline	0.010
Hexachlorobutadiene	0.010
Caprolactam	0.010
4-chloro-3-methylphenol	0.200
2-Methylnaphthalene	0.400
Hexachlorocyclopentadiene	0.050
2,4,6-Trichlorophenol	0.200
2,4,5-Trichlorophenol	0.200
1,1'-Biphenyl	0.010
2-Chloronaphthalene	0.800
2-Nitroaniline	0.010
Dimethyl phthalene	0.010
2,6-Dinitrotoluene	0.200
Acenaphthylene	0.900
3-Nitroaniline	0.010
Acenaphthene	0.900
2,4-Dinitrophenol	0.010
4-Nitrophenol	0.010
Dibenzofuran	0.800
2,4-Dinitrotoluene	0.200
Diethyl phthalate	0.010
1,2,4,5-Tetrachlorobenzene	0.010
4-chlorophenyl-phenyl ether	0.400
Fluorene	0.900
4-Nitroanailine	0.010
4,6-Dinitro-2-methylphenol	0.010
4-Bromophenyl-phenyl ether	0.100
N-Nitrosodiphenylamine	0.010
Hexachlorobenzene	0.100
Atrazine	0.010
Pentachlorophenol	0.050
Phenanthrene	0.700
Anthracene	0.700
Carbazole	0.010
Di-n-butyl phthalene	0.010
Fluoranthene	0.600
Pyrene	0.600
Butyl benzyl phthalate	0.010
3,3'-Dichlorobenzidine	0.010
Benzo(a)anthracene	0.800
Chrysene	0.700
Bis-(2-ethylhexyl)phthalate	0.010
Di-n-octyl phthalate	0.010
Benzo(b)fluoranthene	0.700

Table 18: Minimum Response Factors	
Compound	**Minimum Response Factor**
Benzo(k)fluoranthene	0.700
Benzo(a)pyrene	0.700
Indeno(1,2,3-cd)pyrene	0.500
Dibenz(a,h)anthracene	0.400
Benzo(g,h,i)perylene	0.500
2,3,4,6-Tetrachlorophenol	0.010
Pentachloronitrobenzene	0.050

9.2.4.2.2. Calculate the Standard Deviation (SD) and Percent Relative Standard Deviation (% RSD) of the response factors for each compound:

$$\% \text{ RSD} = \frac{\text{Standard Deviation of RRFs}}{\text{Mean RRF}}$$

9.2.4.2.3. The % RSD of the RRF's must be ≤20% for each target analyte listed in Table 18. The % RSD of each target analytes must be ≤20% in order for the calibration range to be acceptable. Additionally for 8270E, the calculated concentration or amount of each analyte of interest in the CCV standard should fall within ±20%. If more than 10% of the compounds included with the initial calibration exceed the 20% RSD limit or do not meet the minimum correlation coefficient (0.99) for alternate fits (see below) then appropriate corrective maintenance action must be performed. If more than 10% of the compounds included with the initial calibration exceed the 20% RSD limit **AND** do not meet the minimum correlation coefficient (0.99) then recalibration is necessary.

9.2.4.2.4. If the above listed criteria is met, the system can be assumed to be linear and sample analysis may begin and the average RF from the initial calibration range is used to quantitate all samples.

9.2.4.2.4.1 Certain state regulatory programs have defined calibration acceptance limits which, where applicable, are used for calibration evaluations. The TALS ICAL Limit Groups detail these regulatory program criteria.

9.2.4.2.5. An alternative calibration technique may be employed for those any compounds exceeding the 20% RSD criteria:

9.2.4.2.5.1 Calculate the first order linear regression for any compound which did not meet the 20% criteria. First order linear regression calibration may be employed if alternative average response calibration procedures were not applicable. The r value (Correlation Coefficient) of the equation must be ≥0.99 for the calibration to be employed.

9.2.4.2.5.2 Second order regression calibration can be used for any compound that has an established history as a non-linear performer.

9.2.4.2.5.3 If second order regression calibration is used a minimum of six (6) calibration levels must be analyzed.

9.2.4.2.5.4 If second order regression calibration is used, the r^2 (Correlation Coefficient) value must be $\geq$ 0.99

9.2.4.2.5.5 Any compound that fails to meet the 20% RSD or or 0.99 correlation coefficient criteria must be flagged as estimated for detects (or must be noted in the narrative). If there are non-detects the compounds may be reported if there is adequate sensitivity to detect at the quantitation limit. To demonstrate adequate sensitivity analyze the low level point of the initial calibration in each analytical batch (LLCCV) The criteria for demonstrating adequate sensitivity is detection in the LLCCV using the standard qualitative identification criteria.

9.2.4.2.5.6. When calculating the calibration curve using the linear calibration model a minimum quantitation check on the viability of the lowest calibration point should be performed by re-fitting the response from the low concentration back into the curve. The recalculated concentration of the low calibration point should be within ±50% of the standard's concentration. This evaluation can be checked using the Initial Calibration %Drift Report in Chrom. Any detects for analytes calibrated using the linear model and failing this readback criterion must be flagged as estimated or detailed in the narrative.

9.2.4.3. **Calibration Point Read-back Criteria**: Whichever calibration model above is selected, it should be subjected to an additional check to establish the representativeness of the data that were used to produce it. This check is the refitting of each calibration

point response back to the calibration model, or the comparison of the calculated amount of the standard against the expected amount.

- CHROM software provides an Initial Calibration %Drift report which shows the % Error for each calibration point. This report must be reviewed in addition to the %RSD / Linear Response Factor.

- The absolute value of the % Error for each calibration point should be < 30%. For the lowest calibration point, the % Error may be <50%.

- See Section 11.8 for the Calculation of Percent (%) Error.

9.2.4.4. **Initial Calibration Verification (ICV):**.Once the initial calibration has been analyzed and has met the above criteria, a second source Initial Calibration Verification (ICV) (as prepared in Section 7.2) must be analyzed and evaluated. The ICV must meet the criteria of 70-130% recovery for all compounds with the exception of the poor performing compounds listed in Attachment 1 which are allowed to be within 50-150% : An NCM must be initiated to denote any ICV non-conformances.

9.2.4.5. The ICV must meet the criteria of 70-130% recovery for all compounds however up to 10% of the compounds are allowed to exceed these criteria as long as their recoveries are within 65-135%. For the poor performers (see Attachment 1) the range is 50-150%. If the criterion is not met, a second ICV may be analyzed after corrective measures are taken. If a second ICV analysis fails to meet criteria proceed with corrective action and the analysis of a new initial calibration range. Flagging: If the ICV limits are outside of criteria (high) for an analyte and that analyte is undetected in the sample, no flagging or narration is required. If the ICV limits are outside of criteria (low) for an analyte and that analyte is undetected in a sample, narrate the non-conformance in an NCM. When that out of spec analyte is detected in a sample, describe the issue in the narrative, or flag as estimated.

9.2.4.6. **Continuing Calibration Verification (CCV):** A CCV consisting of a standard at or near the midpoint of the Initial Calibration Range is analyzed every 12 hours of instrument operation or at the beginning of an analytical sequence to verify the initial calibration. The calibration verification consists of a DFTPP instrument performance check (not required for 8270E), and analysis of a calibration verification standard. **Note:** Certain state regulatory programs have defined calibration acceptance limits which, where applicable, are used for calibration

evaluations. The TALS ICAL Limit Groups detail these regulatory program criteria.

9.2.4.5.1 Tune Verification: Follow the procedure for verifying the instrument tune described in section 9.2.1 using a 50 ng injection of DFTPP. If the tune cannot be verified, analysis must be stopped, corrective action taken and a return to "control" demonstrated before continuing with the calibration verification process. For 8270E analysis only, tune verification is required just prior to ICAL.

9.2.4.5.2 Calibration Verification: Analyze the calibration verification standard immediately after a DFTPP that meets criteria. Daily analysis of the DFTPP is not required as part of the CCV for 8270E analysis. .When samples are analyzed after an ICAL the last ICAL standard may be used as the starting time reference for evaluation. Use the mid point calibration standard (approximately 50ug/l). NOTE: The calibration standard contains internal standards; Dichlorobenzene d_4, Naphthalene d_8, Acenaphthene d_{10}, Phenanthrene d_{10}, Chrysene d_{12}, and Perylene d_{12} at 40ug/l (0.1ug/L for SIM). The calibration check standard must also include all the target analytes from the original calibration.

9.2.4.5.3 The RFs must meet the criteria for the compounds in Table 18. Any compound that fails the minimum response factor must be reported as estimated for detects and must have a demonstration of sensitivity to report non-detects. To demonstrate adequate sensitivity for out of criterion compounds analyze the low level point of the calibration (LLCCV) in the analytical sequence. The criterion for the LLCCV is detection only but the standard qualitative identification criteria in the method must be met

9.2.4.5.4 The percent difference (when using average response factor) or percent drift (when using linear regression) of the compounds in Table 18 must be ≤20% for at least 80% of the total analyte list. If more than 20% of the compound list fail to 20% difference or drift criterion then appropriate corrective action must be taken prior to the analysis of the samples. Any individual compound that fails must be reported as estimated for detects and must have a demonstration of sensitivity to report non-detects. To demonstrate adequate sensitivity for out of criterion compounds analyze the low level point of the calibration (LLCCV) in the analytical sequence. The

criterion for the LLCCV is detection only (%D criteria are not applied) but the standard qualitative identification criteria in the method must be met.

9.2.4.5.5 **CCV Poor Performers**: Refer to Attachment 1 for the identification of poor and/or erratic performing analytes. These analytes are allowed a %D >20% but must be <50 %D to be acceptable. If there are poor performers that exceed 50%D, the data may be reported provided results are noted as estimated. An NCM must be initiated to denote this situation.

9.2.4.5.6 The retention times of the internal standards from the calibration check must be within ±30 seconds of the internal standards from the mid point standard of the original calibration. If the retention time for any internal standard changes by more than 30 seconds from the latest daily (12 hour) calibration standard, the chromatographic system is inspected for malfunctions, and corrections made as required. If corrective action does not result in the retention time criteria being achieved, the system must be re-calibrated using four additional standards.

9.2.4.5.7 The response (area count) of each internal standard in the calibration verification standard must be within 50 - 100% of its corresponding internal standard in the mid-level calibration standard of the active calibration curve. If the EICP area for any internal standard changes by more than a factor of two (-50% +100%), the mass spectrometer system must be inspected for malfunction and corrections made as appropriate. When corrections are made, re-analysis of samples analyzed while the system was malfunctioning is required.

9.2.4.5.8 The relative retention times of each compound in the calibration verification standard must agree within .06 relative retention time units of its value in the initial calibration.

9.2.4.5.9 Use the average response factors from the original five-point calibration for quantitative analysis of target analytes identified in field samples.

9.2.4.5.10 Prepare a calibration summary or list indicating which compounds did not meet the 20% average percent difference criteria. Record this information in that run log.

9.2.4.7. **Low Level Continuing Calibration Verification (LLCCV):** An LLCCV consisting of the low level standard from the initial

calibration range is analyzed every 12 hours of instrument operation after the CCV. The purpose and evaluation of the LLCCV is described in Section 9.2.4.4.4.

10.0 Procedure

10.1. Gas Chromatograph/Mass Spectrometer Operation

10.1.1. The sequence of events for GC/MS analysis involves many steps. First the injection system and column performance and calibration must be verified. Maintenance operations are performed as needed.

10.1.2. Preparation of the Injection Port Liner and Installation Procedure: Prior to the start of initial calibration and each daily analysis of sample extracts, a new liner for the injection port must be prepared. Once a liner has been used it is no longer inert and will cause serious chromatography problems with phenols and other compounds. When preparing the liner, proper laboratory protection must be worn and the liner must be prepared in a well-ventilated hood. When the procedure is completed all traces of toluene, Sylon-Ct and methanol will be removed immediately so that extraction solvents and preparation of sample extracts will not come into contact with these solvents and become contaminated.

10.1.2.1 Remove one liner from a 40ml VOA bottle containing other liners immersed in Sylon-Ct solution. Rinse off the liner with Toluene and wipe dry. Insert 1cm of pre-silanized glass wool partially into one end of the liner and trim neatly. Push the glass wool into the center of the liner so that it is 1 1/4" from the bottom. Do not use glass wool or solvents that are dirty (i.e. suspended particles) or use liners which are chipped on the ends, deformed or fractured. Inspect the glass wool for cleanliness after it has been inserted.

10.1.2.2 Using a Pasteur pipette flush out the interior of the liner containing the glass wool with Sylon-Ct. Rest the liner horizontally on a small beaker and allow the Sylon-Ct to re-deactivate the interior surfaces and the glass wool. There should be no air bubbles caught in the glass wool. After several minutes flush out the Sylon-Ct with toluene and finally with methanol. Dry the outer surface of the liner and rest it on the injection port housing until the remaining methanol is boiled off

10.1.2.3 Insert the liner with the newly silanized glass wool plug into the injection port. Verify that the column extends up into the injection port and is perpendicular. Inspect the graphite seal and replace it if the edges are knife-shaped.

10.1.2.4 The septum is always replaced daily. Bake out the column at 300°C for 15 minutes after the vacuum in the analyzer has returned to normal.

10.1.2.5 Performance may enhanced by clipping a small portion of the column at the injection port end. Document this activity in the maintenance record.

10.1.3. Prior to calibration or sample analysis always verify that the analyzer is under sufficient vacuum and that the column has proper carrier gas flow.

10.1.4. Establish the following GC/MS operating conditions:

10.1.4.1 Full Scan Operating Mode

Full Scan Mode – Standard Injection Volume
Mass Range: 35 to 500amu
Scan Time: 1 sec/scan
Transfer Line Temperature: 300°C
Source Temperature: Preset by H.P. at 280°C
Scan start time: 1.0 minutes
Initial Column Temperature and Hold Time: 45°C for 0.5 minutes
Column Temperature Program: 20°C /min to 100°C 25°C/min to 270°C 10° C/min to 310°C
Final Column Temperature Hold: 310°C for 5 minutes
Carrier Gas: Ultra High Purity Grade Helium at 1.3ml/min
Injector Temperature: 275°C
Injector: Grob-type, pulse, splitless
Injection Volume: 1ul
Splitless Valve Time: 0.3 minutes

Full Scan Mode – Large Volume Injection (LVI)
Mass Range: 35 to 500amu
Scan Time: 1 sec/scan
Transfer Line Temperature: 300°C
Source Temperature: Preset by H.P. at 280°C
Scan start time: 1.0 minutes
Initial Column Temperature and Hold Time: 45°C for 0.5 minutes
Column Temperature Program: 20°C /min to 100°C

25°C/min to 270°C 10° C/min to 310°C
Final Column Temperature Hold: 310°C for 5 minutes
Carrier Gas: Ultra High Purity Grade Helium at 1.3ml/min
Injector Temperature: 275°C
Injector: Grob-type, pulse, splitless
Injection Volume: 5ul
Splitless Valve Time: 0.3 minutes

10.1.4.2 SIM Operating Mode

SIM Mode
Mass Range: 35 to 500amu
Scan Time: 1 sec/scan
Transfer Line Temperature: 300°C
Source Temperature: Preset by H.P. at 280°C
Scan start time: 1.5 minutes
Initial Column Temperature and Hold Time: 40°C for 0.5 minutes
Column Temperature Program: 20°C /min to 100°C 25°C/min to 270°C 10° C/min to 310°C
Final Column Temperature Hold: 310°C for 3 minutes
Carrier Gas: Ultra High Purity Grade Helium at 1.3ml/min
Injector Temperature: 275°C
Injector: Grob-type, pulse splitless
Injection Volume: 1ul
Splitless Valve Time: 0.3 minutes

10.1.4.3 Isotope Dilution Selected Ion Monitoring Mode :

SIM Parameters

Group 1
Plot 1 Ion: 74.0

Ions/Dwell in Group	(Mass	Dwell)	(Mass	Dwell)	(Mass	Dwell)
	42.0	50	43. 0	50	68.0	50
	74.0	50	128.0	50	129.0	50
	136.0	50	150.0	50	152.0	50
	93.0	50	66.0	50		
	58.0	50				
	88.0	50				

Group 2
Group Start Time: 6.00
Plot 1 Ion: 152.0

Ions/Dwell in Group	(Mass	Dwell)	(Mass	Dwell)	(Mass	Dwell)
	151.0	50	152.0	50	153.0	50
	154.0	50	162.0	50	164.0	50
	165.0	50	166.0	50		

Group 3
Group Start Time: 7.80
Plot 1 Ion: 188.0

Ions/Dwell in Group	(Mass	Dwell)	(Mass	Dwell)	(Mass	Dwell)
	94.0	50	101.0	50	142.0	50
	178.0	50	179.0	50	188.0	50
	202.0	50	264.0	50	266.0	50
	284.0	50				

Group 4
Group Start Time: 10.50
Plot 1 Ion: 228

Ions/Dwell in Group	(Mass	Dwell)	(Mass	Dwell)	(Mass	Dwell)
	120.0	50	228.0	50	229.0	50
	240.0	50				

Group 5
Group Start Time: 12.00
Plot 1 Ion: 252.0

Ions/Dwell in Group	(Mass	Dwell)	(Mass	Dwell)	(Mass	Dwell)
	138.0	50	139.0	50	252.0	50
	253.0	50	260.0	50	264.0	50
	267.0	50	276.0	50	278.0	50

Table 19: Target Compound - Primary and Monitoring Ions

Compound	1	2	3
1,4-Dioxane-d8	96	64	62
1,4-Dioxane	88	58	57
1,4-Dichlorobenzene-d4	152	150	

10.1.5. The above listed instrument conditions are used for all analytical standards for calibration and for all sample extracts analyzed by this method.

10.1.5.1 The column conditions, scan start time, and splitless valve time for analysis of DFTPP only are as follows are as follows:

Initial Column Temperature and Hold Time: 140°C for 0.5 minutes
Column Temperature Program: 140° to 320°C at 22°C/minute
Final Column Temperature Hold: 320C for 0.5 minutes
Scan Start Time: approx. 5 minutes
Splitless Valve Time: 0.3 minutes
Injection Volume: 2 ul

10.2. Analytical Sequence

10.2.1. Dilutions are made based on initial GC/MS analysis. Dilutions are made in 1-ml vials using microsyringes. Calculate the dilution factor using the equation below:

DF= Ph / 5 x Is

Where:

DF = Dilution Factor
Ph = Sample Peak Height
Is = Internal Standard Peak Height

When DF >1 but <2, combine 500ul of sample extract with 500ul methylene chloride in a 1 ml amber vial, add20 ul internal standard and crimp seal

Use **Table 20** to determine dilution and internal standard amount.

Table 20
Dilution Factor Calculations

DF Value	Volume of Sample (ul)	Volume of Methylene Chloride (ul)	Volume of ISTD (ul)
<1	1,000	None	None
>1, <2	500	500	10
>4, <5	200	800	16
>10, <20	100	900	36
>20	500*	500	10

*Prepare this dilution by serially diluting the >10, <20 dilution

10.2.2. Instrument Performance and Calibration Sequence

10.2.2.1. Once the GC/MS instrument has been setup and maintained as detailed in Section 10.1, the first operations to be performed are the performance checks and calibration standards.

10.2.2.2. Analyze the Instrument Performance Check Standard (DFTPP) as discussed in Section 9.2.1.

10.2.2.3. Initially and as required, analyze the Initial Calibration Range (minimum 5 points, six points for second order regression) as detailed in Sections 7.2.1 and 9.2.4.2. Evaluate the acceptability of the Initial Calibration Range as detailed in Section 9.2.4.2.

10.2.2.4. Immediately after the Initial Calibration Range only, analyze the Initial Calibration Verification (ICV) as detailed in Sections 7.2. and 9.2.4.3. Evaluate the acceptability of the ICV as detailed in Section 9.2.4.3.

10.2.2.5. Every 12 hours, reanalyze and evaluate the Instrument Performance Check Standard (DFTPP), not required for 8270E followed by the Continuing Calibration Verification (CCV) and Low Level Continuing Calibration Verification (LLCCV) as detailed in Section 9.2.3, 9.2.4.4 and 9.2.4.5. Evaluate the acceptability of the CCV and LLCCV as detailed in Section 9.2.4.4

10.2.2.6. Client samples and QC samples are analyzed (as detailed in Section 10.2.3) after acceptable Instrument Performance and Calibration Checks and until the 12 hour clock expires. Repeat the sequence as required. The automation of GC/MS runs is accomplished via the “SEQUENCE” macro of the ChemStation.

10.2.3. Sample Analysis Sequence

10.2.3.1. Sample extracts are normally prepared on the same day as analysis. The GC/MS operator will prepare the extracts that will be run on his or her instrument. Volume adjustments to the extracts will be made at the discretion of the supervisor.

10.2.3.2. Prior to the start of sample analysis the GC/MS operator will generate a sequence program containing the list of the sample extracts to be analyzed, the position on the autosampler tray, and the proper acquisition and tune methods that are to be used. This sequence program contains all the necessary information on the samples to be analyzed and how the GC/MS system is to analyze them. The sample extracts are loaded onto the autosampler (ALS) tray. Their position is verified by checking them against the ALS number on the sequence. This batch analysis will be performed automatically over the 12-hour period.

10.2.3.3. The analytical run log is printed as a record of samples analyzed. The analyst will annotate the run log with any required information regarding anomalies or unusual events. The run log must be signed by the analyst and a reviewed and signed by a trained peer or manager

10.3. Data Processing

10.3.1. Prior to processing any standards or samples, target compound lists and sublists must be assembled. Chrom's auto-processing system queries TALS (LIMS) for each sample's processing parameters (including target compounds lists) and downloads the required processing methods from LIMS to analyze data. These lists are required for processing of all data files including calibration files. The data includes compound names, retention time data, quantitation ions, qualitative identification ions, and the assigned internal standard for qualitative and quantitative identification.

10.3.2. Key data is manually entered the first time a compound list is used for data processing. Processing data using a compound list automatically generates response factor data and updates retention information.

10.3.3. The characteristic ions for target compounds, surrogate compounds, and internal standards which can be determined using SW8270D and 8270E are listed in Table 21..

10.4. Interpretation and Qualitative Identification: Qualitative identification of target compounds is based on retention time and mass spectral comparison with characteristic ions in the target compound list. The reference mass spectrum is taken from a standard of the target compound analyzed by this method. The characteristic ions are the three ions of greatest relative intensity or any ions over 30% relative intensity if less than three such ions occur in the reference spectrum. Compounds are identified as present when the following criteria are met:

10.4.1 Target Analytes: Qualitative identification of target compounds is based on retention time and mass spectral comparison with characteristic ions in the target compound list. The reference mass spectrum is taken from a standard of the target compound analyzed by this method. The characteristic ions are the three ions of greatest relative intensity or any ions over 30% relative intensity if less than three such ions occur in the reference spectrum. Compounds are identified as present when the following criteria are met:

10.4.1.1. Once the GC/MS instrument has been setup and maintained as detailed in Section 10.1, the first operations to be performed are the performance checks and calibration standards.

10.4.1.2. The intensities of the characteristic ions of a compound maximize in the same scan or within one scan of each other.

10.4.1.3. The relative retention time (RRT) of the sample component is within ± 0.06 RRT units of the RRT of the standard component.

10.4.1.4. The most abundant ion in the standard target spectrum that equals 100% MUST also be present in the sample target spectrum.

10.4.1.5. All other ions that are greater than 10% in the standard target spectra should also be present in the sample.

10.4.1.6. The relative intensities of the characteristic ions agree within 30% of the relative intensities of these ions in the reference spectrum. (Example: For an ion with an abundance of 50% in the reference spectrum, the corresponding abundance in a sample spectrum can range between 20% and 80%).

10.4.1.7. If the compound does not meet all of the criteria listed above, but is deemed a match in the technical judgment of the mass spectral interpretation specialist, the compound will be positively identified and reported with documentation of the identification noted in the raw data record.

10.4.2 Non-Target Analytes: Upon client request a library search to identify non-target Tentatively Identified Compounds (TIC) is performed. The NIST/EPA/NIH mass spectral library is used to identify non-target compounds (not including internal standard and surrogate compounds) of greatest apparent concentration by a forward search of the library. The following guidelines are used by the analyst when making TIC identifications:

10.4.2.1. Relative intensities of major ions in the reference spectrum (ions greater than 10% of the most abundant ion) should be present in the sample spectrum.

10.4.2.2. The relative intensities of the major ions should agree within ±20%. (Example: For an ion with an abundance of 50% in the standard spectrum, the corresponding sample ion abundance must be between 30 and 70%).

10.4.2.3. Molecular ions present in the reference spectrum should be present in the sample spectrum.

10.4.2.4. Ions present in the sample spectrum but not in the reference spectrum should be reviewed for possible background contamination or presence of co-eluting compounds.

10.4.2.5. Ions present in the reference spectrum but not in the sample spectrum should be reviewed for possible subtraction from the sample spectrum because of background contamination or co-eluting peaks. Data system library reduction programs can sometimes create these discrepancies.

10.4.2.6. If, in the technical judgement of the mass spectral interpretation specialist, no tentative identification can be

made, the compound will be reported as 'Unknown'. If the compound can be further classified the analyst may do so (i.e, 'Unknown hydrocarbon', 'Unknown acid' , etc.).

10.5. Data Reporting

10.5.1. Final Report. The Chom data system automatically produces a data report consisting of hardcopy reports corresponding to specific data reporting requirements, which is uploaded to the TALS LIMS System for the report production group.

10.5.1.1. Total Ion Chromatogram. Full length chromatogram depicting the full length of the GC/MS acquisition.

10.5.1.2. Spectra of all detected target compounds. A page for each detected target compound spectra with a standard reference spectrum for comparison.

10.5.1.3. The calculations of the concentrations of each target compound in the sample, reported in units of ppb, ug/kg or ug/l.

10.5.1.4. Data summaries for each method blank indicating which samples were extracted with the indicated blank.

10.5.1.5. A copy of the initial calibration range together with the calibration verification report, and tune report.

10.5.1.6. Quality Control (QC) data report for each batch including surrogate recoveries, internal standard area summaries, LCS, MS/MSD and RPD summaries.

10.6. The low-level calibration standard establishes the reporting limit. All reported data must be at a concentration at or above the low concentration standard. Any quantitative values below the report limit must be qualified as estimated.

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11.0. <u>Calculations/Data Reduction</u>

11.1. Target Compounds: are quantitated using the internal standard method (see the formula in Section 11.3).

11.1.1. Identified target compounds are quantitated using the integrated abundance from the EICP of the primary characteristic ion. The internal standard used shall be the one nearest the retention time of the analyte).

11.1.2. The average response factor (RRF) from the initial calibration is used to calculate the target analyte concentration in client samples using the formula found in Section 11.3. See Section 9.2.4 for discussion of RRF.

11.1.3. Secondary ion quantitation is utilized only when there are sample interferences preventing use of the primary characteristic ion. If secondary ion quantitation is used an average relative response factor (RRF) must be calculated using that secondary ion.

11.2. Non-Target Compounds (Tentatively Identified Compounds): An estimated concentration for non-target (tentatively identified compounds) is calculated using the internal standard method (see formula in Section 11.3). For quantiation, the nearest eluting internal standard free of interferences is used. The procedure used for calculating the concentration of non-target compounds is the same as that used for target compounds (see Section 11.1) with the following revisions:

11.2.1. The total area count of the non-target compound is used for As (instead of the area of a characteristic ion).

11.2.2. The total area count of the chosen internal standard is used as Ais (instead of the area of a characteristic ion).

11.2.3. A RF on 1.0 is assumed.

11.2.4. The resulting concentration is qualified as estimated ('J') indicating the quantitative uncertainties of the reported concentration.

11.3. Internal Standard Calculation:

11.3.1. Aqueous Samples

$$\text{Concentration } (\mu g/L) = \frac{(As)(Cis)(D)}{(Ais)(RF)(Vs)\ (Vi)\ (1000)}$$

Where:

As	=	Area of the characteristic ion for the target analyte in the sample
Cis	=	Concentration of the internal standard (ug/L)
D	=	Dilution factor, if the sample or extract was diluted prior to analysis. If no dilution is performed, D = 1.
Vi	=	Volume of the extract injected (ul)
Ais	=	Area of the characteristic for the associated internal standard
RF	=	Average response factor from the initial calibration.
Vs	=	Volume of sample extracted (ml)

The 1000 in the denominator represents the number of ul in 1 ml.

11.3.2. Solid Samples

$$\text{Concentration } (\mu g/KG) = \frac{(As)(Cis)(D)(Vt)}{(Ais)(RF)(Ws)\ (Vi)\ (1000)}$$

Where:

As	=	Area of the characteristic ion for the target analyte in the sample
Cis	=	Concentration of the internal standard (ug/L)
D	=	Dilution factor, if the sample or extract was diluted prior to analysis. If no dilution is performed, D = 1.
Vi	=	Volume of the extract injected (ul)
Ais	=	Area of the characteristic for the associated internal standard
RF	=	Average response factor from the initial calibration.
Vt	=	Volume of concentrated extract (ul)
Ws	=	Weight of sample (g)

The 1000 in the denominator represents the number of ul in 1 ml.

11.4. Relative Response Factors

$$RRF = \frac{A_x}{A_{is}} \times \frac{C_{is}}{C_x}$$

Where:

A_x = Area characteristic ion for the compound (see Table 21)
Ais = Area characteristic ion of associated internal std (See Table 21)
Cis = Concentration of internal standard
Cx = Concentration of compound in standard

11.5. Percent Relative Standard Deviation (% RSD) : as discussed in Section 9.2.4.4 (Initial calibration):

$$\%\ RSD = \frac{\text{Standard Deviation of RRFs}}{\text{Mean RRF}}$$

11.6. Percent Difference (% D):as discussed in Section 9.2.4.4 (Continuing calibration):

$$\%\ D = \frac{RRF_c - \overline{RRF_i}}{\overline{RRF_i}} \times 100$$

Where: RRFc = RRF from continuing calibration

$\overline{RRF_i}$ = Mean RRF from current initial calibration

11.7. Percent Recovery (% R): Surrogates and Spikes

$$\text{Recovery (\%)} = \frac{\text{Concentration (or amount) found}}{\text{Concentration (or amount) added}} \times 100$$

11.8. Calculation of Percent (%) Error

$$\%Error = \frac{x_i - x_i'}{x_i} \times 100$$

Where:

x_i [1] = Measured amount of analyte at calibration level *i*, in mass or concentration units

x_i = True amount

11.9. Dry Weight Correction: All solid samples must be corrected for dry weight using the following formula for dry weight determination.

$$DW = \frac{Gd}{Gw} \times 100$$

Where:

DW	=	Percent % Dry Weight
Gd	=	Dry weight of selected sample aliquot
Gw	=	Wet weight of selected sample aliquot

Multiply the DW value times the wet weight of the sample extracted. NOTE: This calculation can also be performed automatically by the target system provided the DW value is available and entered into the system.

12.0. Method Performance

12.1. Method Detection Limit Study (MDL)

A Method Detection Limit (MDL) study, as described in the TestAmerica corporate Detection and Quantitation Limits SOP, CA-Q-S-006, must be performed initially and whenever a significant change affecting sensitivity is made to the analytical system. The MDL must be re-evaluated from quarterly MDL points at least every 12 months.

12.2. Demonstration of Capabilities

For DOC procedure refer to Section 19 in the most current revision of TestAmerica Edison's Quality Assurance Manual (ED-QA-LQM).

12.3. Lower Limit of Quantitation Verification

The lowest calibration standard analyzed establishes the LLOQ or Reporting Limit. The capability to reliably detect this concentration through the preparation, clean-up and analytical procedure is verified through the annual analysis of a standard at the LLOQ/RL. The LLOQ verification shall also be performed whenever significant changes are made to the preparation and/or analytical procedure.

12.3.1 The LLOQ verification standard shall be prepared at a concentration 0.5-2 times the LLOQ/RL, and be taken through all of the same preparation and clean-up methods as client samples.

12.3.2 The LLOQ verification standard for aqueous matrix shall be prepared using laboratory deionized water and for the solid matrix using clean Ottawa sand. Other clean matrices may be used in addition, for project specific requirements.

12.3.3 The LLOQ shall be verified annually on each instrument used for client sample analysis.

12.3.4 Recovery of each analyte must meet the laboratory established LCS recovery limits + 20%. (For example, if the LCS recovery limits are 70-130%, the LLOQ verification must meet recovery limits of 50-150%.) Once sufficient points have been generated, LLOQ based statistical limits may be used in place of limits based on LCS recovery.

NOTE: The lower recovery limit for the LLOQ can be no lower than 10%.

12.4. Training Requirements

Refer to TestAmerica SOP No. ED-GEN-022, (*Training*), for the laboratory's training program.

13.0. Pollution Control

13.1 It is TestAmerica's policy to evaluate each method and look for opportunities to minimize waste generated (i.e., examine recycling options, ordering chemicals based on quantity needed, preparation of reagents based on anticipated usage and reagent stability). Employees must abide by the policies in Section 13 of the Corporate Environmental Health and Safety Manual (CW-E-M-001) for "Waste Management and Pollution Prevention."

14.0. Waste Management

14.1 Waste management practices are conducted consistent with all applicable rules and regulations. Excess reagents, samples and method process wastes are disposed of in an accepted manner. Waste description rules and land disposal restrictions are followed. Waste disposal procedures are incorporated by reference to TestAmerica Edison SOPs Nos. ED-SPM-007 (*Disposal of Samples and*

Associated Laboratory Waste, current revision) and ED-SPM-008 (*Laboratory Waste Disposal Procedures, current revision).* The following waste streams are produced when this method is carried out:

- Auto sampler vials and expired standards: These vials are collected in satellite accumulation within the instrument laboratory. The vials are then placed into a 55 steel open top drum in the waste room. When the drums are full, the drum will be collected by the waste vendor for disposal. This waste is treated for incineration.

  Teris Profile Number: 50016652
  Onyx Profile WIP Number: 282493

- Mixed Solvent Waste: Mixed solvent waste is collected in a small beaker inside the bench top hood. This waste is then transferred into the satellite accumulation container in the Organic Prep. Lab. on a daily basis. This material is transferred into 5 gallon solvent cans as satellite accumulation. These cans are emptied every 24 hours into a steel drum in the waste room. This drum is kept in the walk in hood until it is full. The full drum is then removed from the hood and placed on secondary containment in the waste room.

  Teris Profile Number: 50016624
  Onyx Profile WIP Number: 545240

14.1. Pollution Prevention

14.2.1. Pollution prevention encompasses any technique that reduces or eliminates the quantity or toxicity of waste at the point of generation. Numerous opportunities for pollution prevention exist in laboratory operation. The USEPA has established a prevention hierarchy of environmental management techniques that places pollution prevention as the management option of first choice. Whenever feasible, laboratory personnel should use pollution prevention techniques to address their waste generation. When wastes cannot be feasibly reduced at the source, the agency recommends recycling as the next best option.

14.2.2. The quantity of chemical purchased should be based on expected usage during its shelf life and disposal cost of unused material. Actual reagent preparation volumes should reflect anticipated usage and reagent stability.

15.0. <u>References / Cross-References</u>

15.1. United States Environmental Protection Agency, “Method SW8270D, Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry”, Test Methods for Evaluating Solid Wastes, SW846 Third Edition, Laboratory Manual, Physical/Chemical Methods, Revision 5, July 2014..

15.2. United States Environmental Protection Agency, "Method SW8270E, Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry", Test Methods for Evaluating Solid Wastes, SW846 Update IV, Laboratory Manual, Physical/Chemical Methods, Revision 6, June 2018.

15.3. United States Environmental Protection Agency, "Method SW8000D: Determinative Chromatographic Separations", Test Methods for Evaluating Solid Wastes, SW846, Laboratory Manual, Physical/Chemical Methods, Update V, Revision 4, October 2012..

15.4. TestAmerica Edison Document No. ED-QA-LQM, *Laboratory Quality Manual*, current revision.

15.5. TestAmerica Edison SOP No. ED-ORP-002, *SW846 Method 3510C-Extraction of Semi-Volatile Organic Compounds in Water by Separatory Funnel,* current revision.

15.6. TestAmerica Edison SOP No. ED-ORP-043, *SW846 Method 3580A - Waste Dilution Prep for Analysis of BNAs by SW846 Method 8270,* current revision.

15.7. TestAmerica Edison SOP No. ED-ORP-044, *Procedure for the Microwave Extraction of Solids, SW3546, current revision.*

15.8. TestAmerica Document No. CW-E-M-001, Corporate Environmental Health and *Safety Manual,* current revision.

15.9. TestAmerica Corporate Quality SOP No. CA-Q-S-001, *Solvent & Acid Lot Testing & Approval*, current revision.

15.10. TestAmerica Edison SOP No. ED-GEN-023 (*Bulk Solvent Testing and Approval*), current revision.

15.11. TestAmerica Edison SOP No. ED-GCS-001, *Preparation and Screening of Semivolatile Organic Extracts for GC/MS Analysis*, current revision.

15.12. TestAmerica Edison Work Instruction Document No. EDS-WI-012, *Client Complaint/Corrective Action Form,* current revision.

15.13. TestAmerica Edison SOP No. ED-GEN-003, *Standard Operating Procedure for Control of Non-Conformances and Corrective Action,* current revision.

15.14. TestAmerica Edison SOP No. ED-ORP-001, *Extraction of Semivolatile Organic Compounds in Water, EPA Method 625.1,* current revision.

15.15. TestAmerica Edison SOP No. ED-GEN-022, *Training,* current revision.

15.16. TestAmerica Corporate Quality Memorandum, CA-Q-QM-002, *GC/MS Tuning Policy*, current revision.

15.17. TestAmerica Corporate Quality SOP No. CA-Q-S-006, *Detection and Quantitation Limits,* current revision.

16.0. Method Modifications:

Method 8270E requires the DFTPP tune standard to be analyzed once prior to an ICAL and not daily prior to sample analysis. Until such time as 8270D is removed from lab capabilities and in order to satisfy both 8270D and 8270E The laboratory will analyze the DFTPP tune daily, prior to QC and sample analysis. The laboratory will use the tighter criteria from Methods 8270C/8270D for tune evaluation, rather than the criteria suggested in Table 3 of Method 8270E.

17.0. Attachments

Attachment 1 Poor Performing Analytes

18.0. Revision History

- Revision 8, date 06/29/2020
    - Updated to Eurofins branding.
    - Updated throughout to include 8270E requirements.
    - Removed references to SW846 3550B/C prep methods (no longer in use for this method at Edison lab).
    - Update equipment listed in Section 6.0.Updated analytical column in Section 6.1.2.
    - Updated, deleted and renumbered tables as required.
    - Made extensive updates to Standards (sources and preparation) in Section 7.2.
    - Removed all references to Aromatic Amines. Deleted all tables specific to Aromatic Amine analysis. Renumbered remaining tables in document and updated text references.
    - Throughout document clarified tune requirements for 8270E.
    - Following added to Section 9.1.1: For method 8270E the method blank is generally acceptable if target analyte concentrations are less than the one half the reporting limit.
    - Calibration Point Read-back Criteria was added to Section 9.2.4.3. The calculation for percent error was added to Section 11.8.
    - Section 9.2.4.2.3: added following for 8270E: the calculated concentration or amount of each analyte of interest in the CCV standard should fall within ±20%.
    - Section 9.2.4.2.5.6: added ‘The recalculated concentration of the low calibration point should be within ±50% of the standard’s concentration.”
    - Section 12.1 revised to reflect the updated MDL procedure.
    - Added Section 12.3: annual Lower Limit of Quantitation Verification
    - Added Corporate SOP CA-Q-S-006, Detection and Quantitation Limits to references.
    - Section 16.0: added a Method Modification regarding tuning check requirements.
- Revision 7, date 06/08/2018
    - Section 2.3: revised to clarify that RVE/LVI is lab standard procedure.
    - Section 9.1.3: removed statement regarding allowance for up to five analytes to recover outside of lab acceptance limits in LCS/LCSD.
    - Section 9.2.4.3: Replace table ‘ICV Poor Performers (50-150% Recovery) with

expanded list of 'Poor Performing Analytes' in Attachment 1.
  - Added Section 9.2.4.4.5: CCV Poor Performers
  - Corrected number in section 9.2.4.5
  - Added Attachment 1 – Poor Performing Analytes

- Revision 6, date 01/12/2018:

  - Section 7.2.5 included to specify reagent and standard storage conditions.
  - Revised Section 9.1.3 to clarify requirements for specific LCS/LCSD evaluation criteria regarding the # of out of criteria analytes.
  - Revised Section 9.2.4.3 to add 2,4-Dimethylphenol as a poor performing analyte, increased the range for the poor performers to 50-150 and also expanded the guidelines for flagging the ICV outliers.

- Revision 5, dated 09/29/2017:
  - Revised Section 9.1.1 to clarify requirements for surrogate recovery in method blanks.

- Revision 4, dated 08/21/2017:
  - Updated throughout to add a procedure for the analysis of 1,4-dioxane by isotope dilution selected ion monitoring (SIM)
  - Added tables for isotope dilution SIM standards. Renumbered all tables as necessary.
  - Section 7.2.1: added a list of full scan calibration list options.
  - Table 3: Renamed 'Full Scan Stock Standards'.
  - Section 9.2.1: noted that DFTTP applies only to full scan analysis.
  - Section 9.2.3: updated CCV concentrations
  - Added reference to GC/MS Tuning Policy in Section 15.16.

- Revision 3, dated 01/07/2016:
  - Tables 1 and 2: added SIM as option for 1,4-Dioxane.
  - Section 2.3: removed SW3541 (Soxtherm) as option for soils prep (lab has discontinued use of this method). Also removed SW3541 SOP reference from Section 15.0.
  - Tables 19 and 20: added source and prep instructions for 1,4-Dioxane SIM standard. Updated source and prep instructions for 4,6-Dinitro-2-methylphenol.
  - Table 22: added prep instructions for 1,4-Dioxane and 4,6-Dinitro-2-methylphenol SIM ICV standard.
  - Corrected the information in the 'DFTPP Key Ions and Abundance Criteria' table in Section 9.2.1 to match the info found in SW846 8270C.
  - Section 10.1.4.2: updated "SIM Parameters" to included ion masses/dwell times for 1,4-Dioxane.

- Revision 2, dated 01/28/2015:
  - Extensively reformatted the SOP. Placed tables that had been in rear of document into the body of the text. Renumbered tables as applicable and fixed text references to tables.
  - Section 1.1, Table 1: Revised table to include all current analytes. Also footnoted those compounds which are currently analyzed by SIM.

- Section 2.3: added options for extraction of solids by SW846 3456 (Microwave Extraction) and by SW3580A (Waste Dilution) and added SOP references. Deleted reference to SOP ED-ORP-005 (SW3550B – Low Level); Updated Section 15 (References).
- Section 2.5: added text detailing the RVE/LVI options.
- Section 2.6: added table which includes all analytes routinely analyzed by SIM.
- Section 6: updated to include newer GC, MS and autosampler models currently in use.
- Section 6.1.3: added Zebron ZB column as an option.
- Section 7.2: extensively revised standards information to reflect switch to Restek standards.
- Table 3:Added Custom Aromatic Amine Surrogate Standard and revised Table 8 to include initial calibration prep instructions for the Aromatic Amine surrogates.
- Throughout document: removed references to Target and replaced with Chrom.
- Section 7.2.1: Added reference to section 10.2.1.2 for LVI.
- Added Section 7.2.1.3.1 and Table 17A both of which discuss use of Aromatic Amine surrogates.
- Section 7.2.1.2: Added reference to Tables 9,10 and 11 (ICV Preparation)
- Section 8.0: Added Sample container and minimum sample size (250 ml) for Reduced volume extraction.
- Sections 9.1.2, 9.1.3, 9.1.4 and 9.2.4: added statement that certain state regulatory programs have defined recovery limits which, where applicable, are used for spike and calibration evaluations.
- Section 9.1.2: Deleted sentence “A minimum of 16 spiked analytes are reported to in client reports (the full list is reported at least once during each 2 year period because we employ full spiking list.
- Section 9.1.4: Added note regarding use of Aromatic Amine Surrogates.
- Section 9.2.2.2: Added reference to ICV Preparation tables in Section 7.2.
- Section 9.2.3: added more specific info as to the concentration of the CCVs for all techniques.
- Section 9.2.4.2.1: Changed to reflect that each analyte should meet minimum RF’s, not the average across the calibration. Added LLCCV requirement.
- Section 10.3.1: added explanation of Chrom’s interaction with TALS. Removed references to Target.
- Section 9.2.4.2.5.5: Added: (or can be noted in the narrative)
- Section 9.2.4.2.5.6: Revised last sentence to read: “This evaluation can be checked using the Initial Calibration %Drift Report in Chrom.”
- Section 9.2.4.3: Removed 65-135% criteria and added “poor performing” analyte list and associated criteria of 60-140%.
- Section 9.2.4.4.3: Added LLCCV criterion for RFs
- Section 9.2.4.4.4: Added LLCCV criterion for %D
- Section 10.1.4: Updated GC/MS operating conditions for full scan, SIM and DFTPP.
- Section 10.1.4.1: added a table detailing operating conditions for LVI option.
- Table 2: Added 2-ethylaniline, 2,4-dimethylaniline, 3,4-dimethylaniline, 2,3-dimethylaniline, 2,4,5-trimethylaniline and 4-chloro-o-toluidine to Working Standards preparation information.
- Table 25: updated to include all current analytis/surrogates/internal standards and associated ions.
- Throughout document: updated LQM section references as appropriate as some have changed with the latest LQM revision.

- Revision 1, dated 11/07/2011
    - Section 1.1, Table 1: Added Pentachloronitrobenzene and associated CAS# to the analyte list.
    - Section 7.2.1: Added Pentachloronitrobenzene standard information.
    - Table 2: Added Pentachloronitrobenzene to Working Standards preparation information.
    - Table 4: Added Pentachloronitrobenzene and associated minimum RF.
    - Table 8: Added Pentachloronitrobenzene and associated ions.
- Revision 0, dated 02/22/2011: NEW

Table 21
Characteristic Ions Of Semi-Volatile Organic Compounds

Compound	Primary Ion	Secondary Ion(s)
1,1'-Biphenyl	154	153,76
1,2,4,5-Tetrachlorobenzene	216	214, 179
1,2,4-Trichlorobenzene	180	182, 145
1,2-Dichlorobenzene	146	148, 111
1,2-Diphenylhydrazine	77	105, 182
1,3-Dichlorobenzene	146	148, 111
1,3-Dimethylnaphthalene	156	141, 115
1,4-Dichlorobenzene	146	148, 111
1,4-Dichlorobenzene d4 **(ISTD)**	152	150, 115
1,4-Dioxane	88	58, 43
1-Methylnaphthalene	142	141, 115
1-Naphthylamine	143	115, 116
2,2'-oxybis[1-chloropropane]	45	77, 121
2,3,4,6-Tetrachlorophenol	232	131, 230
2,3,7,8-TCDD (screen)	320	322, 324
2,3-Dihydroindene		
2,3-Dimethylaniline	106	129
2,4,5-Trichlorophenol	196	198, 200
2,4,5-Trimethylaniline	102	55, 56
2,4,6-Tribromophenol **(Surrogate)**	330	132, 141
2,4,6-Trichlorophenol	196	198, 200
2,4-Dichlorophenol	162	164, 98
2,4-Xylidine	121	120, 106
2,4-Dimethylphenol	122	107, 121
2,4-Dinitrophenol	184	63, 154
2,4-Dinitrotoluene	165	63, 89
2,6-Dinitrotoluene	165	63, 89
2-Chloronaphthalene	162	127, 164
2-Chlorophenol	128	64, 130

Table 21 Characteristic Ions Of Semi-Volatile Organic Compounds		
Compound	**Primary Ion**	**Secondary Ion(s)**
2-Ethylaniline	106	122,104
2-Fluorobiphenyl **(Surrogate)**	172	171
2-Fluorophenol **(Surrogate)**	112	64
2-Methylnaphthalene	142	141
2-Methylphenol	108	107
2-Naphthylamine	143	115, 116
2-Nitroaniline	65	108, 138
2-Nitrophenol	139	109, 65
2-tert-butyl-4-Methylphenol	149	121, 91
2-Toluidine	107	106, 77
3,3'-Dichlorobenzidine	252	254, 126
3,4-Dimethylaniline	106	129, 127
3,5-Di-tert-butyl-4-Hydroxytol	205	220, 145
3-Nitroaniline	138	108, 65
4,6-Dinitro-2-methylphenol	198	51, 105
4-Bromophenyl phenyl ether	248	250, 141
4-chloro-2-methylaniline	106	144, 142
4-Chloro-3-methylphenol	107	144, 142
4-Chloroaniline	127	129
4-Chloroaniline-d4 **(Surrogate)**	131	133
4-Chlorophenyl phenyl ether	204	206, 141
4-Methylphenol	108	107
4-Nitroaniline	138	108, 65
4-Nitrophenol	139	109, 65
Acenaphthene	154	153, 152
Acenaphthene d10 **(ISTD)**	164	162, 160
Acenaphthylene	152	151, 153
Acetophenone	105	77, 51
Aniline	93	66
Aniline-d5 **(Surrogate**)	98	71,42
Anthracene	178	176, 179
Atrazine	200	173,215
Benzaldehyde	77	105,106
Benzidine	184	92, 185
Benzo(a)anthracene	228	229, 226
Benzo(a)pyrene	252	253, 125
Benzo(b)fluoranthene	252	253, 125
Benzo(g,h,i)perylene	276	138, 277
Benzo(k)fluoranthene	252	253, 125
Benzoic Acid	122	105, 77
Benzyl Alcohol	108	79, 77
Bis(2-chloroethoxy)methane	93	95, 123
Bis(2-chloroethyl)ether	93	63, 95
Bis(2-ethylhexyl)phthalate	149	167, 279
Bisphenol-A	213	228, 119
Butyl benzyl phthalate	149	91, 206

Table 21 Characteristic Ions Of Semi-Volatile Organic Compounds		
Compound	**Primary Ion**	**Secondary Ion(s)**
Caprolactam	113	55,56
Carbamazepine	193	236, 135
Carbazole	167	166, 139
Chrysene	228	226, 229
Chrysene d12 **(ISTD)**	240	120, 136
Coumarin	146	118, 63
Dibenz(a,h)anthracene	278	139, 279
Dibenzofuran	168	139
Diethylphthalate	149	177, 150
Dimethylphthalate	163	194, 164
Di-n-butylphthalate	149	150, 104
Di-n-octylphthalate	149	167, 43
Fluoranthene	202	101, 203
Fluorene	166	165, 167
Hexachlorobenzene	284	142, 249
Hexachlorobutadiene	225	223, 227
Hexachlorocyclopentadiene	237	235, 272
Hexachloroethane	117	201, 199
Indeno(1,2,3-cd)pyrene	276	138, 227
Isophorone	82	95,138
Kepone	272	237, 355
N,N-Dimethylaniline	120	122, 104
Naphthalene	128	129, 127
Naphthalene d8 **(ISTD)**	136	68
n-decane	43	57
Nitrobenzene	77	123, 65
Nitrobenzene-d5 **(Surrogate)**	82	128, 54
N-Nitrosodimethylamine	42	74, 44
N-Nitroso-di-n-propylamine	170	42,101,130
N-Nitrosodiphenylamine	169	168, 167
n-Octadecane	57	43, 85
o-Toluidine-d9 **(Surrogate)**	114	112, 42
Pentachloronitrobenzene	237	214,295
Pentachlorophenol	266	264, 268
Perylene d12 **(ISTD)**	264	260, 265
Phenanthrene	178	179, 176
Phenanthrene d10 **(ISTD)**	188	94, 80
Phenol	94	65, 66
Phenol-d5 **(Surrogate)**	99	42, 71
Phenyl ether	170	77, 115
Pyrene	202	200, 203
Pyridine	79	52, 51
Terphenyl-d14 **(Surrogate)**	244	122, 212

Attachment 1
Poor Performing Compounds

1,2,4,5-Tetrachlorobenzene
1,4-Dioxane
1-Naphthylamine
2,3,4,6-Tetrachlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2-Chloroaniline
2-Naphthylamine
3&4-Methylphenol
3'3-Dichlorobenzidine
4,6-Dinitro-2-methyl- phenol
4-Chloroaniline
4-Nitrophenol
Aniline
Atrazine
Benzaldehyde
Benzidine
Benzoic Acid
Benzyl Alcohol
Biphenyl
Caprolactam
Diphenylamine
Hexachlorocyclopentadiene
Hexachloroethane
n-Decane
n-Nitrosodimethylamine
o,o,o-Triethylphosphorothioate
o-Toluidine
Pentachloronitrobenzene
Pentachlorophenol
Phenol
Pyridine

These analytes are exempt from the ICV and CCV criteria as detailed in this SOP

ATTACHMENT 3

Roux's Standard Operating Procedures

Date: May 5, 2000

1.0 PURPOSE

The purpose for this standard operating procedure (SOP) is to establish the guidelines for decontamination of all field equipment potentially exposed to contamination during drilling, and soil and water sampling. The objective of decontamination is to ensure that all drilling, and soil-sampling and water-sampling equipment is decontaminated (free of potential contaminants): 1) prior to being brought onsite to avoid the introduction of potential contaminants to the site; 2) between drilling and sampling events/activities onsite to eliminate the potential for cross-contamination between boreholes and/or wells; and 3) prior to the removal of equipment from the site to prevent the transportation of potentially contaminated equipment offsite.

In considering decontamination procedures, state and federal regulatory agency requirements must be considered because of potential variability between state and federal requirements and because of variability in the requirements of individual states. Decontamination procedures must be in compliance with state and/or federal protocols in order that regulatory agency(ies) scrutiny of the procedures and data collected do not result in non acceptance (invalidation) of the work undertaken and data collected.

2.0 PROCEDURE FOR DRILLING EQUIPMENT

The following is a minimum decontamination procedure for drilling equipment. Drilling equipment decontamination procedures, especially any variation from the method itemized below, will be documented on an appropriate field form or in the field notebook.

2.1 The rig and all associated equipment should be properly decontaminated by the contractor before arriving at the test site.

2.2 The augers, drilling casings, rods, samplers, tools, rig, and any piece of equipment that can come in contact (directly or indirectly) with the soil, will be steam cleaned onsite prior to set up for drilling to ensure proper decontamination.

2.3 The same steam cleaning procedures will be followed between boreholes (at a fixed on-site location[s], if appropriate) and before leaving the site at the end of the study.

2.4 All on-site steam cleaning (decontamination) activities will be monitored and documented by a member(s) of the staff of Roux Associates, Inc.

2.5 If drilling activities are conducted in the presence of thick, sticky oils (e.g., PCBs) which coat drilling equipment, then special decontamination procedures may have to be utilized before steam cleaning (e.g., hexane scrub and wash).

2.6 Containment of decontamination fluids may be necessary (e.g., rinseate from steam cleaning) or will be required (e.g., hexane), and disposal must be in accordance with state and/or federal procedures.

3.0 PROCEDURE FOR SOIL-SAMPLING EQUIPMENT

The following is a minimum decontamination procedure for soil-sampling equipment (e.g., split spoons, stainless-steel spatulas). Soil-sampling equipment decontamination procedures, especially any variation from the method itemized below, will be documented on an appropriate field form or in the field notebook.

3.1 Wear disposable gloves while cleaning equipment to avoid cross-contamination and change gloves as needed.

3.2 Steam clean the sampler or rinse with potable water. If soil-sampling activities are conducted in the presence of thick, sticky oils (e.g., PCBs) which coat sampling equipment, then special decontamination procedures may have to be utilized before steam cleaning and washing in detergent solution (e.g., hexane scrub and wash).

3.3 Prepare a non-phosphate, laboratory-grade detergent solution and distilled or potable water in a clean bucket.

3.4 Disassemble the sampler, as necessary and immerse all parts and other sampling equipment in the solution.

3.5 Scrub all equipment in the bucket with a brush to remove any adhering particles.

3.6 Rinse all equipment with copious amounts of potable water followed by distilled or deionized water.

3.7 Place clean equipment on a clean plastic sheet (e.g., polyethylene)

3.8 Reassemble the cleaned sampler, as necessary.

3.9 Transfer the sampler to the driller (or helper) making sure that this individual is also wearing clean gloves, or wrap the equipment with a suitable material (e.g., plastic bag, aluminum foil.

As part of the decontamination procedure for soil-sampling equipment, state and/or federal protocols must be considered. These may require procedures above those specified as minimum for Roux Associates, Inc., such as the use of nitric acid, acetone, etc. Furthermore, the containment and proper disposal of decontamination fluids must be considered with respect to regulatory agency(ies) requirements.

4.0 PROCEDURE FOR WATER-SAMPLING EQUIPMENT

The following is a decontamination procedure for water-sampling equipment (e.g., bailers, pumps). Water-sampling equipment decontamination procedures, especially any variation from the method itemized below, will be documented on an appropriate field form or in the field notebook.

4.1 Decontamination procedures for bailers follow:

a. Wear disposable gloves while cleaning bailer to avoid cross-contamination and change gloves as needed.

b. Prepare a non-phosphate, laboratory-grade detergent solution and potable water in a bucket.

c. Disassemble bailer (if applicable) and discard cord in an appropriate manner, and scrub each part of the bailer with a brush and solution.

d. Rinse with potable water and reassemble bailer.

e. Rinse with copious amounts of distilled or deionized water.

f. Air dry.

g. Wrap equipment with a suitable material (e.g., clean plastic bag, aluminum foil).

h. Rinse bailer at least three times with distilled or deionized water before use.

4.2 Decontamination procedures for pumps follow:

a. Wear disposable gloves while cleaning pump to avoid cross-contamination and change gloves as needed.

b. Prepare a non-phosphate, laboratory-grade detergent solution and potable water in a clean bucket, clean garbage can, or clean 55-gallon drum.

c. Flush the pump and discharge hose (if not disposable) with the detergent solution, and discard disposable tubing and/or cord in an appropriate manner.

d. Flush the pump and discharge hose (if not disposable) with potable water.

e. Place the pump on clear plastic sheeting.

f. Wipe any pump-related equipment (e.g., electrical lines, cables, discharge hose) that entered the well with a clean cloth and detergent solution, and rinse or wipe with a clean cloth and potable water.

g. Air dry.

h. Wrap equipment with a suitable material (e.g., clean plastic bag).

As part of the decontamination procedure for water-sampling equipment, state and/or federal protocols must be considered. These may require procedures above those specified as minimum for Roux Associates, Inc., such as the use of nitric acid, acetone, etc. Furthermore, the containment and proper disposal of decontamination fluids must be considered with respect to regulatory agency(ies) requirements.

Date: May 5, 2000

1.0 PURPOSE

The purpose of this Standard Operating Procedure (SOP) is to establish guidelines for the collection of soil samples for laboratory analysis. This SOP is applicable to soil samples collected from split-spoon samplers during drilling, hand auger samples, grab samples from stockpiled soils, surface samples, test pit samples, etc.

2.0 CONSIDERATIONS

Soil samples may be collected in either a random or biased manner. Random samples can be based on a grid system or statistical methodology. Biased samples can be collected in areas of visible impact or suspected source areas. Soil samples can be collected at the surface, shallow subsurface, or at depth. When samples are collected at depth the water content should be noted, since generally "soil sampling" is restricted to the unsaturated zone. Equipment selection will be determined by the depth of the sample to be collected. A thorough description of the sampling locations and proposed methods of sample collection should be included in the work plan.

Commonly, surface sampling refers to the collection of samples at a 0 to 6 inch depth interval. Certain regulatory agencies may define the depth interval of a surface sample differently, and this must be defined in the work plan. Collection of surface soil samples is most efficiently accomplished with the use of a stainless steel trowel or scoop. For samples at greater depths a decontaminated bucket auger or power auger may be needed to advance the hole to the point of sample collection. Another clean bucket auger should then be used to collect the sample. To collect samples at depths of greater than approximately six feet the use of a drill rig and split spoon samples will usually be necessary. In some situations, sample locations are accessed with the use of a backhoe.

3.0 MATERIALS/EQUIPMENT

a. A work plan which outlines soil sampling requirements.

b. Field notebook, field form(s), maps, chain-of-custody forms, and custody seals.

c. Decontamination supplies (including: non-phosphate, laboratory grade detergent, buckets, brushes, potable water, distilled water, regulatory-required reagents, aluminum foil, plastic sheeting, etc.).

d. Sampling device (split-spoon sampler, stainless steel hand auger, stainless steel trowel, etc.).

e. Stainless steel spoons or spatulas.

f. Disposable sampling gloves.

g. Laboratory-supplied sample containers with labels.

h. Cooler with blue or wet ice.

i. Plastic sheeting.

j. Black pen and indelible marker.

k. Zip-lock bags and packing material.

l. Tape measure.

m. Paper towels or clean rags.

n. Masking and packing tape.

o. Overnight (express) mail forms.

4.0 DECONTAMINATION

All reusable sampling equipment will be thoroughly cleaned according to the decontamination SOP. Where possible, thoroughly pre-cleaned and wrapped sampling equipment should be used and dedicated to individual sampling locations. Disposable items such as sampling gloves, aluminum foil, and plastic sheeting will be changed after each use and discarded in an appropriate manner.

5.0 PROCEDURE

5.1 Prior to collecting soil samples, ensure that all sampling equipment has been thoroughly cleaned according to the decontamination SOP. If samples are to be collected at depth, then the boring must be advanced with thoroughly cleaned equipment to the desired sampling horizon and a different thoroughly cleaned sampler must be used to collect the sample.

5.2 Using disposable gloves and a pre-cleaned, stainless steel spatula or spoon, extract the soil sample from the sampler, measure the recovery, and separate the wash from the true sample. Where allowed by regulatory agency(ies), disposable plastic spoons may be used.

5.3 Place the sample in a laboratory-supplied, pre-cleaned sample container. This should be done as quickly as possible and this is especially important when sampling for volatile organic compounds (VOCs). Samples to be analyzed for VOCs must be collected prior to other constituents.

5.4 The sample container will be labeled with appropriate information such as, client name, site location, sample identification (location, depth, etc.), date and time of collection, and sampler's initials.

5.5 Using the remaining portion of soil from the sampler, log the sample in detail and record sediment characteristics (color, odor, moisture, texture, density, consistency, organic content, layering, grain size, etc.).

5.6 If soil samples are to be composited in the field, then equal portions from selected locations will be placed on a clean plastic sheet and homogenized. Alternately, several samples may be submitted to the laboratory for compositing by weight. The method used is dependent upon regulatory requirements. Specific compositing procedures shall be approved by the appropriate regulatory agency and described in the work plan. Samples to be analyzed for VOCs will not be composited unless required by a regulatory agency.

5.7 After the sample has been collected, labeled, and logged in detail, it is placed in a zip-lock bag and stored in a cooler at 4°C.

5.8 A chain-of-custody form is completed for all samples collected. One copy is retained and two are sent with the samples in a zip-lock bag to the laboratory. A custody seal is placed on the cooler prior to shipment.

5.9 Samples collected from Monday to Friday are to be delivered to the laboratory within 24 hours of collection. If Saturday delivery is unavailable, samples collected on Friday must be delivered by Monday morning. Check the work plan to determine if any analytes require a shorter delivery time.

5.10 The field notebook and appropriate forms should include, but not be limited to the following: client name, site location, sample location, sample depth, sample identification, date and time collected, sampler's name, method of sample collection, number and type of containers, geologic description of material, description of decontamination procedures, etc. A site map should be prepared with exact measurements to each sample location in case follow-up sampling is necessary.

5.11 All reusable sampling equipment must be thoroughly cleaned in accordance with the decontamination SOP. Following the final decontamination (after all samples are collected) the sampling equipment is wrapped in aluminum foil. Discard any gloves, foil, plastic, etc. in an appropriate manner that is consistent with site conditions.

END OF PROCEDURE

Date: May 5, 2000

1.0 PURPOSE

The purpose of this standard operating procedure (SOP) is to establish guidelines for sample handling which will allow consistent and accurate results. Valid chemistry data are integral to investigations that characterize media-quality conditions. Thus, this SOP is designed to ensure that once samples are collected, they are preserved, packed and delivered in a manner which will maintain sample integrity to as great an extent as possible. The procedures outlined are applicable to most sampling events and any required modifications must be clearly described in the work plan.

2.0 CONSIDERATIONS

Sample containers, sampling equipment decontamination, quality assurance/quality control (QA/QC), sample preservation, and sample handling are all components of this SOP.

2.1 Sample Containers

Prior to collection of a sample, considerations must be given to the type of container that will be used to store and transport the sample. The type and number of containers selected is usually based on factors such as sample matrix, potential contaminants to be encountered, analytical methods requested, and the laboratory's internal quality assurance requirements. In most cases, the overriding considerations will be the analytical methodology, or the state or federal regulatory requirements because these regulations generally encompass the other factors. The sample container selected is usually based on some combination of the following criteria:

a. Reactivity of Container Material with Sample

Choosing the proper composition of sample containers will help to ensure that the chemical and physical integrity of the sample is maintained. For sampling potentially hazardous material, glass is the recommended container type because it is chemically inert to most substances. Plastic containers are not recommended for most hazardous wastes because the potential exists for contaminants to adsorb to the surface of the plastic or for the plasticizer to leach into the sample.

In some instances, however, the sample characteristics or analytes of interest may dictate that plastic containers be used instead of glass. Because some metals species will adhere to the sides of the glass containers in an aqueous matrix, plastic bottles (e.g., nalgene) must be used for samples collected for metals analysis. A separate, plastic container should accompany glass containers if metals analysis is to be

performed along with other analyses. Likewise, other sample characteristics may dictate that glass cannot be used. For example, in the case of a strong alkali waste or hydrofluoric solution, plastic containers may be more suitable because glass containers may be etched by these compounds and create adsorptive sites on the container's surface.

b. Volume of the Container

The volume of sample to be collected will be dictated by the analysis being performed and the sample matrix. The laboratory must supply bottles of sufficient volume to perform the required analysis. In most cases, the methodology dictates the volume of sample material required to complete the analysis. However, individual laboratories may provide larger volume containers for various analytes to ensure sufficient quantities for duplicates or other QC checks.

To facilitate transfer of the sample from the sampler into the container and to minimize spillage and sample disturbance, wide-mouth containers are recommended. Aqueous volatile organic samples must be placed into 40-milliliter (ml) glass vials with polytetrafluoroethylene (PTFE) (e.g., TeflonTM) septums. Non-aqueous volatile organic samples should be collected in the same type of vials or in 4-ounce (oz) wide-mouth jars provided by the laboratory. These jars should have PTFE-lined screw caps.

c. Color of Container

Whenever possible, amber glass containers should be used to prevent photodegradation of the sample, except when samples are being collected for metals analysis. If amber containers are not available, then containers holding samples should be protected from light (i.e., place in cooler with ice immediately after filling).

d. Container Closures

Container closures must screw on and off the containers and form a leak-proof seal. Container caps must not be removed until the container is ready to be filled with the sample, and the container cap must be replaced (securely) immediately after filling it. Closures should be constructed of a material which is inert with respect to the sampled material, such as PTFE (e.g., TeflonTM). Alternately, the closure may be separated from the sample by a closure liner that is inert to the sample material such as PTFE sheeting. If soil or sediment samples are being collected, the threads of the container must be wiped clean with a dedicated paper towel or cloth so the cap can be threaded properly.

e. Decontamination of Sample Containers

Sample containers must be laboratory cleaned by the laboratory performing the analysis. The cleaning procedure is dictated by the specific analysis to be performed on the sample. Sample containers must be carefully examined to ensure that all containers appear clean. Do not mistake the preservative as unwanted residue. The bottles should not be field cleaned. If there is any question regarding the integrity of the bottle, then the laboratory must be contacted immediately and the bottle(s) replaced.

f. Sample Bottle Storage and Transport

No matter where the sample bottles are, whether at the laboratory waiting to be packed for shipment or in the field waiting to be filled with sample, care must be taken to avoid contamination. Sample shuttles or coolers, and sample bottles must be stored and transported in clean environments. Sample bottles and clean sampling equipment must never be stored near solvents, gasoline, or other equipment that is a potential source of cross-contamination. When under chain of custody, sample bottles must be secured in locked vehicles, and custody sealed in shuttles or in the presence of authorized personnel. Information which documents that proper storage and transport procedures have been followed must be included in the field notebook and on appropriate field forms.

2.2 Decontamination of Sampling Equipment

Proper decontamination of all re-usable sampling equipment is critical for all sampling episodes. The SOP for Decontamination of Field Equipment and SOPs for method-specific or instrument-specific tasks must also be referred to for guidance for decontamination of various types of equipment.

2.3 Quality Assurance/Quality Control Samples

QA/QC samples are intended to provide control over the proper collection and tracking of environmental measurements, and subsequent review, interpretation and validation of generated analytical data. The SOPs for Collection of Quality Control Samples, for Evaluation and Validation of Data, and for Field Record Keeping and Quality Assurance/Quality Control must be referred to for detailed guidance regarding these respective procedures. SOPs for method-specific or instrument-specific tasks must also be referred to for guidance for QA/QC procedures.

2.4 Sample Preservation Requirements

Certain analytical methodologies for specific analytes require chemical additives in order to stabilize and maintain sample integrity. Generally, this is accomplished under the following two scenarios:

a. Sample bottles are preserved at the laboratory prior to shipment into the field.

b. Preservatives are added in the field immediately after the samples are collected.

Many laboratories provide pre-preserved bottles as a matter of convenience and to help ensure that samples will be preserved immediately upon collection. A problem associated with this method arises if not enough sample could be collected, resulting in too much preservative in the sample. More commonly encountered problems with this method include the possibility of insufficient preservative provided to achieve the desired pH level or the need for additional preservation due to chemical reactions caused by the addition of sample liquids to pre-preserved bottles. The use of pre-preserved bottles is acceptable; however, field sampling teams must always be prepared to add additional preservatives to samples if the aforementioned situations occur. Furthermore, care must be exercised not to overfill sample bottles containing preservatives to prevent the sample and preservative from spilling and therefore diluting the preservative (i.e., not having enough preservative for the volume of sample).

When samples are preserved after collection, special care must be taken. The transportation and handling of concentrated acids in the field requires additional preparation and adherence to appropriate preservation procedures. All preservation acids used in the field should be trace-metal or higher-grade.

2.5 Sample Handling

After the proper sample bottles have been received under chain-of-custody, properly decontaminated equipment has been used to collect the sample, and appropriate preservatives have been added to maintain sample integrity, the final step for the field personnel is checking the sample bottles prior to proper packing and delivery of the samples to the laboratory.

All samples should be organized and the labels checked for accuracy. The caps should be checked for tightness and any 40-ml volatile organic compound (VOC) bottles must be checked for bubbles. Each sample bottle must be placed in an individual "zip-lock" bag to protect the label, and placed on ice. The bottles must be carefully packed to prevent breakage during transport. When several bottles have been collected for an individual sample, they should not be placed adjacent to each other in the cooler to prevent possible breakage of all bottles for a given sample. If there are any samples which are known or suspected to be highly contaminated, these should be placed in an individual cooler under separate chain-of-custody to prevent possible cross contamination. Sufficient ice (wet or blue packs) should be placed in the cooler to maintain the temperature at 4 degrees Celsius (°C) until delivery at the laboratory. Consult the work plan to determine if a particular ice is specified as the preservation for transportation (e.g., the United States Environmental Protection Agency does not like the use of

blue packs because they claim that the samples will not hold at 4°C). Blue ice packs will not be used to transport samples being analyzed for Per- and Polyfluoroalkyl Substances (PFAS). If additional coolers are required, then they should be purchased. The chain-of-custody form should be properly completed, placed in a "zip-lock" bag, and placed in the cooler. One copy must be maintained for the project files. The cooler should be sealed with packing tape and a custody seal. The custody seal number should be noted in the field book. Samples collected from Monday through Friday will be delivered to the laboratory within 24 hours of collection. If Saturday delivery is not available, samples collected on Friday must be delivered by Monday morning. Check the work plan to determine if certain analytes require a shorter delivery time. If overnight mail is utilized, then the shipping bill must be maintained for the files and the laboratory must be called the following day to confirm receipt.

3.0 EQUIPMENT AND MATERIALS

3.1 General equipment and materials may include, but not necessarily be limited to, the following:

a. Sample bottles of proper size and type with labels.

b. Cooler with ice (wet or blue pack; no blue packs for PFAS samples).

c. Field notebook, appropriate field form(s), chain-of-custody form(s), custody seals.

d. Black pen and indelible marker.

e. Packing tape, "bubble wrap," and "zip-lock" bags.

f. Overnight (express) mail forms and laboratory address.

g. Health and safety plan (HASP).

h. Work plan/scope of work.

i. Pertinent SOPs for specified tasks and their respective equipment and materials.

3.2 Preservatives for specific samples/analytes as specified by the laboratory. Preservatives must be stored in secure, spillproof glass containers with their content, concentration, and date of preparation and expiration clearly labeled.

3.3 Miscellaneous equipment and materials including, but not necessarily limited to, the following:

a. Graduated pipettes.

b. Pipette bulbs.

c. Litmus paper.

d. Glass stirring rods.

e. Protective goggles.

f. Disposable gloves.

g. Lab apron.

h. First aid kit.

i. Portable eye wash station.

j. Water supply for immediate flushing of spillage, if appropriate.

k. Shovel and container for immediate containerization of spillage-impacted soils, if appropriate.

4.0 PROCEDURE

4.1 Examine all bottles and verify that they are clean and of the proper type, number, and volume for the sampling to be conducted.

4.2 Label bottles carefully and clearly with project name and number, site location, sample identification, date, time, and the sampler's initials using an indelible marker.

4.3 Collect samples in the proper manner (refer to specific sampling SOPs).

4.4 Conduct preservation activities as required after each sample has been collected. Field preservation must be done immediately and must not be done later than 30 minutes after sample collection.

4.5 Conduct QC sampling, as required.

4.6 Seal each container carefully and place in an individual "zip lock" bag.

4.7 Organize and carefully pack all samples in the cooler immediately after collection (e.g., bubble wrap). Insulate samples so that breakage will not occur.

4.8 Complete and place the chain-of-custody form in the cooler after all samples have been collected. Maintain one copy for the project file. If the cooler is to be transferred several times prior to shipment or delivery to the laboratory, it may be easier to tape the chain-of-custody to the exterior of the sealed cooler. When exceptionally hazardous samples are known or suspected to be present, this should be identified on the chain-of-custody as a courtesy to the laboratory personnel.

4.9 Add additional ice as necessary to ensure that it will last until receipt by the laboratory.

4.10 Seal the cooler with packing tape and a custody seal. Record the number of the custody seal in the field notebook and on the field form. If there are any exceptionally hazardous samples, then shipping regulations should be examined to ensure that the sample containers and coolers are in compliance and properly labeled.

4.11 Samples collected from Monday through Friday will be delivered to the laboratory within 24 hours of collection. If Saturday delivery is not available, samples collected on Friday must be delivered by Monday morning. Check the work plan to determine if certain analytes require a shorter delivery time.

4.12 Maintain the shipping bill for the project files if overnight mail is utilized and call the laboratory the following day to confirm receipt.

END OF PROCEDURE

Date: May 5, 2000

1.0 PURPOSE

The purpose of this standard operating procedure (SOP) is to establish guidelines for the sampling of ground-water monitoring wells for dissolved constituents. As part of the SOP for the sampling of ground-water monitoring wells, sample collection equipment and devices must be considered, and equipment decontamination and pre-sampling procedures (e.g., measuring water levels, sounding wells, and purging wells) must be implemented. Sampling objectives must be firmly established in the work plan before considering the above.

Valid water-chemistry data are integral to a hydrogeologic investigation that characterizes ground-water quality conditions. Water-quality data are used to evaluate both current and historic aquifer chemistry conditions, as well as to estimate future conditions (e.g., trends, migration pathways). Water-quality data can be used to construct ground-water quality maps to illustrate chemical conditions within the flow system, to generate water-quality plots to depict conditions with time and trends, and to perform statistical analyses to quantify data variability, trends, and cleanup levels.

2.0 EQUIPMENT AND MATERIALS

2.1 In order to sample ground water from monitoring wells, specific equipment and materials are required. The equipment and materials list may include, but not necessarily be limited to, the following:

a. Bailers (Teflon™ or stainless steel).

b. Pumps (centrifugal, peristaltic, bladder, electric submersible, bilge, hand-operated diaphragm, etc.).

c. Gas-displacement device(s).

d. Air-lift device(s).

e. Teflon™ tape, electrical tape.

f. Appropriate discharge hose.

g. Appropriate discharge tubing (e.g., polypropylene, teflon, etc.) if using a peristaltic pump.

h. Appropriate compressed gas if using bladder-type or gas-displacement device.

i. Portable generator and gasoline or alternate power supply if using an electric submersible pump.

j. Non-absorbent cord (e.g., polypropylene, etc.).

k. Plastic sheeting.

l. Tape measure (stainless steel, steel, fiberglass) with 0.01-foot measurement increments and chalk (blue carpenter's).

m. Electronic water-level indicators (e.g., m-scope, etc.) or electric water-level/product level indicators.

n. Non-phosphate, laboratory-grade detergent.

o. Distilled/Deionized water.

p. Potable water.

q. Paper towels, clean rags.

r. Roux Associates' field forms (e.g., daily log, well inspection checklist, sampling, etc.) and field notebook.

s. Well location and site map.

t. Well keys.

u. Stop watch, digital watch with second increments, or watch with a second hand.

v. Water Well Handbook.

w. Calculator.

x. Black pen and water-proof marker.

y. Tools (e.g., pipe wrenches, screwdrivers, hammer, pliers, flashlight, pen knife, etc.).

z. Appropriate health and safety equipment, as specified in the site health and safety plan (HASP).

aa. pH meter(s) and buffers.

bb. Conductivity meter(s) and standards.

cc. Thermometer(s).

dd. Extra batteries (meters, thermometers, flashlight).

ee. Filtration apparatus, filters, pre-filters.

ff. Plasticware (e.g., premeasured buckets, beakers, flasks, funnels).

gg. Disposable gloves.

hh. Water jugs.

ii. Laboratory-supplied sample containers with labels.

jj. Cooler(s).

kk. Ice (wet, blue packs).

ll. Masking, duct, and packing tape.

mm. Chain-of-custody form(s) and custody seal(s).

nn. Site sampling and analysis plan (SAP).

oo. Site health and safety plan (HASP).

pp. Packing material (e.g., bubble wrap)

qq. "Zip-lock" plastic bags.

rr. Overnight (express) mail forms.

3.0 DECONTAMINATION

3.1 Make sure all equipment is decontaminated and cleaned before use (refer to the SOP for Decontamination of Field Equipment for detailed decontamination methods, summaries for bailers and pumps are provided below). Use new, clean materials when decontamination is not appropriate (e.g., non-absorbent cord, disposable gloves). Document, and initial and date the decontamination procedures on the appropriate field form and in the field notebook.

a. Decontaminate a bailer by: 1) wearing disposable gloves, 2) disassembling (if appropriate) and scrubbing in a non-phosphate, laboratory-grade detergent and distilled/deionized water solution, and 3) rinsing first with potable water and then distilled/deionized water.

b. Decontaminate a pump by: 1) wearing disposable gloves, 2) flushing the pump and discharge hose (if not disposable) first with a non-phosphate, laboratory-grade detergent and potable water solution in an appropriate container (clean bucket, garbage can, or 55-gallon drum) and then with

distilled/deionized water or potable water, and 3) wiping pump-related equipment (e.g., electrical lines, cables, discharge hose) first with a clean cloth and detergent solution and then rinsing or wiping with a clean cloth and distilled/deionized water or potable water.

3.2 Note that the decontamination procedures for bailers and pumps are the minimum that must be performed. Check the work plan to determine if chemicals specified by individual state regulatory agencies must also be used for decontamination procedures (e.g., hexane, nitric acid, acetone, isopropanol, etc.).

4.0 CALIBRATION OF FIELD ANALYSIS EQUIPMENT

Calibrate field analysis equipment before use (e.g., thermometers, pH and conductivity meters, etc.). Refer to the specific SOP for field analysis for each respective piece of equipment. Document, and initial and date the calibration procedures on the appropriate field form, in the field notebook, and in the calibration log book.

5.0 PROCEDURE

5.1 Document, and initial and date well identification, pre-sampling information, and problems encountered on the appropriate field form and in the field notebook as needed.

5.2 Inspect the protective casing of the well and the well casing, and note any items of concern such as a missing lock, or bent or damaged casing(s).

5.3 Place plastic sheeting around the well to protect sampling equipment from potential cross contamination.

5.4 Remove the well cap or plug and, if necessary, clean the top of the well off with a clean rag. Place the cap or plug on the plastic sheeting. If the well is not vented, allow several minutes for the water level in the well to equilibrate. If fumes or gases are present, then diagnose these with the proper safety equipment. Never inhale the vapors.

5.5 Measure the depth to water (DTW) from the measuring point (MP) on the well using a steel tape and chalk or an electronic sounding device (m-scope). Refer to the specific SOPs for details regarding the use of a steel tape or a m-scope for measuring water levels. Calculate the water-level elevation. Document, and initial and date the information on the appropriate field form and in the field notebook.

5.6 Measuring the total depth of the well from the MP with a weighted steel tape. Calculate and record the volume of standing water in the well casing on the appropriate field form and in the field notebook.

5.7 Decontaminate the equipment used to measure the water level and sound the well with a non-phosphate, laboratory-grade detergent solution followed by a distilled/deionized water rinse.

5.8 Purge the well prior to sampling (refer to the SOP for Purging a Well). The well should be pumped or bailed to remove the volume of water specified in the work plan. Usually three to five casing volumes are removed if the recharge rate is adequate to accomplish this within a reasonable amount of time.

If the formation cannot produce enough water to sustain purging, then one of two options must be followed. These include: 1) pumping or bailing the well dry, or 2) pumping or bailing the well to "near-dry" conditions (i.e., leaving some water in the well). The option employed must be specified in the work plan and be in accordance with regulatory requirements.

If the well is purged dry, then all the standing water has been removed and upon recovery the well is ready for sampling. However, depending on the rate of recovery and the time needed to complete the sampling round, one of the following procedures may have to be implemented: 1) the well may have to be sampled over a period of more than one day; 2) the well may not yield enough water to collect a complete suite of samples and only select (most important) samples will be collected; or 3) the well may not recover which will preclude sampling. Regardless of the option that must be followed, the sampling procedure must be fully documented. When preparing to conduct a sampling round, review drilling, development and previous sampling information (if available) to identify low-yielding wells in order to purge them first, and potentially allow time for the well to recover for sampling.

5.9 Record the physical appearance of the water (i.e., color, turbidity, odor, etc.) on the appropriate field form and in the field notebook, as it is purged. Note any changes that occur during purging.

5.10 If a bailer is used to collect the sample, then:

a. Flush the decontaminated bailer three times with distilled/deionized water.

b. Tie the non-absorbent cord (polypropylene) to the bailer with a secure knot and then tie the free end of the bailer cord to the protective casing or, if possible, some nearby structure to prevent losing the bailer and cord down the well.

c. Lower the bailer slowly down the well and into the water column to minimize disturbance of the water surface. If a bottom-filling bailer is used, then do not submerge the top of the bailer; however, if a top-filling bailer is used, then submerge the bailer several feet below the water surface.

d. Remove and properly discard one bailer volume from the well to rinse the bailer with well water before sampling. Again, lower the bailer slowly down the well to the appropriate depth depending on the bailer type (as discussed above in 5.11 c). When removing the bailer from the well, do not allow the bailer cord to rest on the ground but coil it on the protective plastic sheeting placed around the well. Certain regulatory agencies require that the first bailer volume collected be utilized for the samples.

5.11 If a pump is used to collect the sample, then use the same pump used to purge the well and, if need be, reduce the discharge rate to facilitate filling sample containers and to avoid problems that can occur while filling sample containers (as listed in Number 5.14, below). Alternately, the purge pump may be removed and a thoroughly decontaminated bailer can be used to collect the sample.

5.12 Remove each appropriate container's cap only when ready to fill each with the water sample, and then replace and secure the cap immediately.

5.13 Fill each appropriate, pre-labeled sample container carefully and cautiously to prevent: 1) agitating or creating turbulence; 2) breaking the container; 3) entry of, or contact with, any other medium; and 4) spilling/splashing the sample and exposing the sampling team to contaminated water. Immediately place the filled sample container in a ice-filled (wet ice or blue pack) cooler for storage. If wet ice is used it is recommended that it be repackaged in zip-lock bags to help keep the cooler dry and the sample labels secure. Check the work plan as to whether wet ice or blue packs are specified for cooling the samples because certain regulatory agencies may specify the use of one and not the other.

5.14 "Top-off" containers for volatile organic compounds (VOCs) and tightly seal with Teflon™-lined septums held in place by open-top screw caps to prevent volatilization. Ensure that there are no bubbles by turning the container upside down and tapping it gently.

5.15 Filter water samples (Procedure 4.6) collected for dissolved metals analysis prior to preservation to remove the suspended sediment from the sample. If water samples are to be collected for total metals analysis, then collect a second set of samples without field filtering.

In the event that the regulatory agency(ies) want unfiltered samples for metals analysis, a second set of filtered samples should also be collected. Because unfiltered samples are indications of total metals (dissolved and suspended) they are not representative of aquifer conditions because ground water does not transport sediment (except in some rare cases). Thus, the results for dissolved metals in ground water should be based on filtered samples even if both filtered and unfiltered sets are presented in a report.

5.16 Add any necessary preservative(s) to the appropriate container(s) prior to, or after (preferred), the collection of the sample, unless the appropriate preservative(s) have already been added by the laboratory before shipment.

5.17 Collect quality control (QC) samples as required in the work plan to monitor sampling and laboratory performance. Refer to the SOP for Collection of Quality Control Samples.

5.18 Conduct field analyses after sample collection is complete by measuring and recording the temperature, conductivity, pH, etc. (as called for in the work plan). Note and record the "final" physical appearance of the water (after purging and sampling) on an appropriate field form and in the field notebook.

5.19 Wipe the well cap with a clean rag, replace the well cap and protective cover (if present). Lock the protective cover.

5.20 Verify that each sample is placed in an individual "zip-lock" bag, wrapped with "bubble wrap," placed in the cooler, and that the cooler has sufficient ice (wet ice or blue packs) to preserve the samples for transportation to the analytical laboratory.

5.21 Decontaminate bailers, hoses, and pumps as discussed in the decontamination SOP. Wrap decontaminated equipment with a suitable material (e.g., clean plastic bag or aluminum foil). Discard cords, rags, gloves, etc. in a manner consistent with site conditions.

5.22 Complete all necessary field forms, field notebook entries, and the chain-of-custody forms. Retain one copy of each chain-of-custody form. Secure the cooler with sufficient packing tape and a custody seal.

5.23 Samples collected from Monday through Friday will be delivered within 24 hours of collection. If Saturday delivery is not available, samples collected on Friday must be delivered by Monday morning. Consult the work plan to determine if any of the analytes require a shorter delivery time.

END OF PROCUDURE

ATTACHMENT 4

NYSDEC PFAS Sampling Guidance

Groundwater Sampling for Emerging Contaminants

July 2018

Issue: NYSDEC has committed to analyzing representative groundwater samples at remediation sites for emerging contaminants (1,4-dioxane and PFAS) as described in the below guidance.

Implementation

NYSDEC project managers will be contacting site owners to schedule sampling for these chemicals. Only groundwater sampling is required. The number of samples required will be similar to the number of samples where "full TAL/TCL sampling" would typically be required in a remedial investigation. If sampling is not feasible (e.g., the site no longer has any monitoring wells in place), sampling may be waived on a site-specific basis after first considering potential sources of these chemicals and whether there are water supplies nearby.

Upon a new site being brought into any program (i.e., SSF, BCP), PFAS and 1,4-dioxane will be incorporated into the investigation of groundwater as part of the standard "full TAL/TCL" sampling. Until an SCO is established for PFAS, soil samples do not need to be analyzed for PFAS unless groundwater contamination is detected. Separate guidance will be developed to address sites where emerging contaminants are found in the groundwater. The analysis currently performed for SVOCs in soil is adequate for evaluation of 1,4-dioxane, which already has an established SCO.

Analysis and Reporting

Labs should provide a full category B deliverable, and a DUSR should be prepared by an independent 3rd party data validator. QA/QC samples should be collected as required in DER-10, Section 2.3(c). The electronic data submission should meet the requirements provided at: https://www.dec.ny.gov/chemical/62440.html ,

The work plan should explicitly describe analysis and reporting requirements.

PFAS sample analysis: Currently, ELAP does not offer certification for PFAS compounds in matrices other than finished drinking water. However, laboratories analyzing environmental samples (ex. soil, sediments, and groundwater) are required, by DER, to hold ELAP certification for PFOA and PFOS in drinking water by EPA Method 537 or ISO 25101.

Modified EPA Method 537 is the preferred method to use for groundwater samples due to the ability to achieve 2 ng/L (ppt) reporting limits. If contract labs or work plans submitted by responsible parties indicate that they are not able to achieve similar reporting limits, the project manager should discuss this with a DER chemist. Note: Reporting limits for PFOA and PFOS should not exceed 2 ng/L.

PFAS sample reporting: DER has developed a PFAS target analyte list (below) with the intent of achieving reporting consistency between labs for commonly reportable analytes. It is expected that reported results for PFAS will include, at a minimum, all the compounds listed. This list may be updated in the future as new information is learned and as labs develop new capabilities. If lab and/or matrix specific issues are encountered for any particular compounds, the NYSDEC project manager will make case-by-case decisions as to whether particular analytes may be temporarily or permanently discontinued from analysis for each site. Any technical lab issues should be brought to the attention of a NYSDEC chemist.

Some sampling using this full PFAS target analyte list is needed to understand the nature of contamination. It may also be critical to differentiate PFAS compounds associated with a site from other sources of these chemicals. Like routine refinements to parameter lists based on investigative findings, the full PFAS target analyte list may not be needed for all sampling intended to define the extent of contamination. Project managers may approve a shorter analyte list (e.g., just the UCMR3 list) for some reporting on a case by case basis.

1,4-Dioxane Analysis and Reporting: The method detection limit (MDL) for 1,4-dioxane should be no higher than 0.35 µg/l (ppb). Although ELAP offers certification for both EPA Method 8260 SIM and EPA Method 8270 SIM, DER is advising the use of method 8270 SIM. EPA Method 8270 SIM provides a more robust extraction procedure, uses a larger sample volume, and is less vulnerable to interference from chlorinated solvents.

Full PFAS Target Analyte List

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

Bold entries depict the 6 original UCMR3 chemicals

Collection of Groundwater Samples for Per- and Polyfluoroalkyl Substances (PFAS) from Monitoring Wells Sample Protocol

Samples collected using this protocol are intended to be analyzed for perfluorooctanoic acid (PFOA) and other perfluorinated compounds by Modified (Low Level) Test Method 537.

The sampling procedure used must be consistent with the NYSDEC March 1991 Sampling Guidelines and Protocols http://www.dec.ny.gov/docs/remediation_hudson_pdf/sgpsect5.pdf with the following materials limitations.

At this time acceptable materials for sampling include: stainless steel, high density polyethylene (HDPE) and polypropylene. Additional materials may be acceptable if proven not to contain PFAS. **NOTE: Grunfos pumps and <u>some</u> bladder pumps are known to contain PFAS materials (e.g. Teflon™ washers for Grunfos pumps and LDPE bladders for bladder pumps).** <u>All sampling equipment components and sample containers should not come in contact with aluminum foil, low density polyethylene (LDPE), glass or polytetrafluoroethylene (PTFE, Teflon™) materials</u> including sample bottle cap liners with a PTFE layer. Standard two step decontamination using detergent and clean water rinse will be performed for equipment that does come in contact with PFAS materials. Clothing that contains PTFE material (including GORE-TEX®) or that have been waterproofed with PFAS materials must be avoided. Many food and drink packaging materials and “plumbers thread seal tape” contain PFAS.

All clothing worn by sampling personnel must have been laundered multiple times. The sampler must wear nitrile gloves while filling and sealing the sample bottles.

Pre-cleaned sample bottles with closures, coolers, ice, sample labels and a chain of custody form will be provided by the laboratory.

1. Fill two pre-cleaned 250 mL HDPE or polypropylene bottle with the sample.
2. Cap the bottles with an acceptable cap and liner closure system.
3. Label the sample bottles.
4. Fill out the chain of custody.
5. Place in a cooler maintained at 4 ± 2º Celsius.

Collect one equipment blank for every sample batch, not to exceed 20 samples.

Collect one field duplicate for every sample batch, not to exceed 20 samples.

Collect one matrix spike / matrix spike duplicate (MS/MSD) for every sample batch, not to exceed 20 samples.

Request appropriate data deliverable (Category A or B) and an electronic data deliverable.

APPENDIX D

Site Specific Health and Safety Plan/
Community Air Monitoring Plan

Site-Specific Health and Safety Plan/ Community Air Monitoring Plan

580-610 Gerard Avenue
Bronx, New York

March 5, 2021

Prepared for:

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40 West 57th Street, 29th Floor
New York, New York 10019

Prepared by:

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Site-Specific Emergency Information

Emergency Phone Numbers

Most emergency services can be obtained by calling 911. Where 911 service is not available, use the telephone numbers provided in the below table. The following is a master emergency phone list for use by the project management personnel. A more condensed version of the emergency numbers listed below will be posted throughout project work areas. Emergencies encountered on the site will be responded to by a combination of off-site emergency services and site personnel.

Emergency Contact Information			
Site Personnel			
Title	Contact		Telephone
Project Manager (PM)	Jessica Lam		631-630-2334
Site Health and Safety Officer (SHSO)	Patrick Kilkelly		631-456-2287
Site Supervisor	Patrick Kilkelly		631-456-2287
SHSO Alternate	Julia Michaels		631-626-8831
Outside Assistance			
Agency	Contact	Telephone	Address/Location
Ambulance/EMS	FDNY EMS Station 14	(718) 665-1832 / 911	2824 Park Avenue, Bronx, New York
Police	Lincoln Hospital Police Station	(718) 579-5757/ 911	234 East 149th Street, Bronx, New York
Fire	FDNY Squad 41	(347) 272-5083 / 911	330 East 150th Street, Bronx, New York

Directions to Lincoln Medical Center (Figure 2):

1. Head north on Gerard Avenue towards East 151st Street.
2. Turn right onto East 151st Street.
3. Turn right at the 1st cross street onto Walton Avenue.
4. Turn left onto East 149th Street and the destination will be ahead on the right.

Directions to AFC Urgent Care Bronx 149th (Figure 3):

1. Head north on Gerard Avenue towards East 151st Street.
2. Turn right onto East 151st Street.
3. Turn right at the 1st cross street onto Walton Avenue.
4. Turn left onto East 149th Street and the destination will be ahead on the right.

1. Introduction

This Site-specific Health and Safety Plan (HASP) has been prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) for use during the implementation of the Remedial Investigation Work Plan (RIWP) at the 580-610 Gerard Avenue site (Site), located at 580-610 Gerard Avenue, Bronx, New York (see Figure 1). These activities fall within the scope of operations covered by the Occupational Safety and Health Administration (OSHA) standards promulgated at 29 CFR 1910.120 and 29 CFR 1926.65, both commonly referred to as the Hazardous Waste Operations and Emergency Response (HAZWOPER) Standard. In accordance with the HAZWOPER Standard, this site-specific HASP was prepared to address the safety and health hazards associated with the drilling, and environmental sampling activities being performed at the Site by Roux and to provide requirements and procedures for the protection of Roux employees, subcontractor personnel, government oversight personnel, Site personnel, and the general public. It also addresses client- and Site-specific requirements for health and safety.

Implementation of this HASP is the joint responsibilities of the project manager, the site health and safety officer, and all field staff, with assistance from the project principal and the office health and safety manager. The project manager for this project is Jessica Lam; the site health and safety officer and the site supervisor is Patrick Kilkelly.

1.1 Roles and Responsibilities

Overall Roles and Responsibilities (R&Rs) of Roux personnel are provided in Roux's Policies and Procedures Manual. Only those R&Rs specific to HASP requirements are listed below.

Project Manager (PM)

The PM has responsibility and authority to direct all work operations. The PM coordinates safety and health functions with the Site Health and Safety Officer (SHSO), has the authority to oversee and monitor the performance of the SHSO, and bears ultimate responsibility for the proper implementation of this HASP. The specific duties of the PM are:

- Preparing and coordinating the site work plan;
- Providing site supervisor(s) with work assignments and overseeing their performance; Coordinating safety and health efforts with the SSHO;
- Ensuring effective emergency response through coordination with the Emergency Response Coordinator (ERC); and
- Serving as primary site liaison with public agencies, officials, and site contractors.

Site Health and Safety Officer (SHSO)

The SHSO has full responsibility and authority to develop and implement this HASP and to verify compliance. The SHSO reports to the Project Manager. The SHSO is on site or readily accessible to the site during all work operations and has the authority to halt site work if unsafe conditions are detected. The specific responsibilities of the SHSO include:

- Managing the safety and health functions on this site;
- Serving as the site's point of contact for safety and health matters;
- Ensuring site monitoring, worker training, and effective selection and use of PPE;

- Assessing site conditions for unsafe acts and conditions and providing corrective action;
- Assisting the preparation and review of this hasp;
- Maintaining effective safety and health records as described in this HASP; and
- Coordinating with the site Supervisor(s) and others as necessary for safety and health efforts.

Site Supervisor

The Site Supervisor is responsible for field operations and reports to the Project Manager (PM). The Site Supervisor ensures the implementation of the HASP requirements and procedures in the field. The specific responsibilities of the Site Supervisor include:

- Executing the work plan and schedule as detailed by the PM;
- Coordination with the SHSO on safety and health; and
- Ensuring site work compliance with the requirements of this HASP.

Site Workers

Site workers are responsible for complying with this HASP, using the proper PPE, reporting unsafe acts and conditions, and following the work and safety and health instructions of the Project Manager (PM), SHSO, and Site Supervisor.

2. Background

The Site is located in the Concourse Village section of the Bronx, New York as shown on Figure 1. The Site is approximately 31,200-square feet in size.

Relevant background information is provided below, including a general description of the Site; a brief review of the Site's history with respect to hazardous material use, handling, and/or storage; and a review of known and potential releases of hazardous substances at the Site.

2.1 Site Description

The Site is approximately 32,200-square feet in area and is developed with a one-story garage building with offices and a partial basement used for utilities. The building is currently vacant but was most recently occupied by a US Postal Service branch.

Adjacent properties include a one-story warehouse and garage building to the north; a one-story warehouse and garage building to the south; residential apartment buildings to the east; and a two-story commercial building and parking lot to the south.

2.2 Site History

Sanborn maps indicated that the Site was first developed in 1951 with the current building located at the Site, which was identified as a post office garage. The maps further indicate that this structure was built in 1950. The Sanborn Maps generally indicate the presence of this garage until the most recent 2007 map. No developments prior to 1950 were identified in any of the Sanborn Maps reviewed.

2.3 Known and Potential Releases of Hazardous Substances at the Site

GEI performed a Phase II ESA of the Site in September 2018 which included the performance of a Ground Penetrating Radar (GPR) survey, advancement of eight soil borings, collection of sixteen soil samples, advancement of two groundwater probes, collection of two groundwater samples and the collection of four sub-slab soil vapor samples.

The results of the soil subsurface investigation identified exceedances of Restricted Residential Soil Cleanup Objectives (RRSCOs) for metals in six (6) of eight (8) borings; semivolatile organic compounds (SVOCs) in four (4) borings; and polychlorinated biphenyls (PCBs) in two (2) borings. Metals and Total PCBs were detected at the highest concentrations in SB-3 at a depth of 0-2 feet bls. SVOCs were detected above RRSCOS in four borings, with the highest concentrations revealed in SB-7 at a depth of 0-2 feet bls. Pesticides were also detected at concentrations above Unrestricted Use Soil Cleanup Objectives (UUSCOs); however, they were below RRSCOs in four (4) borings, with the highest concentration detected in SB-8 at a depth of 0-2 feet bls. VOCs were detected in groundwater sample SB-2(GW) including 1,2,4-Trimethlybenzene, 1,3,5-Trimethlybenzene, Chloroform, Isopropylbenzene, n-Butylbenzene, n-Propylbenzene, and Napthalene at concentrations above NYSDEC Technical and Operational Guidance Series (TOGs) standards.

No detections above NYSDEC TOGs standards were detected in groundwater sample SB-5 (GW). VOCs were detected in soil vapor at mostly low levels throughout the project Site, with the exception of elevated tetrachloroethene (PCE) detected in sub-slab soil vapor sample SV-2.

The Phase II ESA indicates that historical operations at the Site do not appear to have impacted environmental quality. However, based upon the historical use of the Site as an auto repair facility and the detection of metals, SVOCs, and PCBs in soil; VOCs in groundwater; and PCE in sub-slab soil vapor, there is potential for an onsite source of contamination.

3. Scope of Work

Scope of work involves the following activities:

- The performance of Site reconnaissance to confirm/supplement proposed sampling locations;
- The advancement of soil borings, collection of soil samples, installation of permanent groundwater monitoring wells, and collection of groundwater samples from the newly installed permanent wells; and
- The installation of soil vapor points and collection of soil vapor samples.

If there are any changes with the scope a revision of the HASP will be required to address any new hazards.

4. Site Control

This site control program is designed to reduce the spread of hazardous substances from contaminated areas to clean areas, to identify and isolate contaminated areas of the site, to facilitate emergency evacuation and medical care, to prevent unauthorized entry to the site, and to deter vandalism and theft.

4.1 Site Map

A map of this site, showing site boundaries, designated work zones, and points of entry and exit is provided in Figure1.

4.2 Site Access

Access to the site is restricted to reduce the potential for exposure to its safety and health hazards. During hours of site operation, site entry and exit is authorized only at the points. Entry and exit at these points are controlled by roll-up garage doors and entrances to the building.

4.3 Buddy System

While working in the Exclusion Zone, site workers use the buddy system. The buddy system means that personnel work in pairs and stay in close visual contact to be able to observe one another and summon rapid assistance in case of an emergency. The responsibilities of workers using the buddy system include:

- Remaining in close visual contact with partner;
- Providing partner with assistance as needed or requested;
- Observing partner for signs of heat stress or other difficulties;
- Periodically checking the integrity of partner's PPE; and
- Notifying the site manager or other site personnel if emergency assistance is needed.

4.4 Site Communications

The following communication equipment is used to support on-site communication: telephones.

- Cellular telephones will be available for communication with emergency support services/facilities. Each field person is equipped with a cellular telephone and is available for communication with emergency support services. A current list of emergency contact numbers is published and posted on-site.

4.5 Site Work Zones

This site is divided into three (3) major zones, described below. These zones are characterized by presence or absence of biological and chemical hazards and the activities performed within them. Zone boundaries are clearly marked at all times and the flow of personnel among the zones is controlled. The site is monitored for changing conditions that may warrant adjustment of zone boundaries. Zone boundaries are adjusted as necessary to protect personnel and clean areas. Whenever boundaries are adjusted, zone markings are also changed, and workers are immediately notified of the change. The Heavy Equipment Exclusion Zone Policy is attached in Appendix D.

Exclusion Zone

The area where contamination exists is the Exclusion Zone (EZ). All areas where excavation and handling of contaminated materials take place are considered the EZ. This zone will be clearly delineated by orange high visibility fencing. Safety tape may be used as a secondary delineation within the EZ. The zone delineation markings may be opened in areas for varying lengths of time to accommodate equipment operation or specific construction activities. The SHSO may establish more than one EZ where different levels of protection may be employed or where different hazards exist. Personnel are not allowed in the EZ without:

- A buddy (co-worker);
- Required minimum level PPE;
- Medical Authorization;
- Training certification; and
- Requirement to be in the zone.

Contamination Reduction Zone

A Contamination Reduction Zone (CRZ) is established between the exclusion zone and the support zone. The CRZ contains the Contamination Reduction Corridor (CRC) and provides an area for decontamination of personnel and equipment. The CRZ will be used for general Site entry and egress in addition to access for heavy equipment and emergency support services. Personnel are not allowed in the CRZ without:

- A buddy (co-worker);
- Appropriate PPE;
- Medical authorization;
- Training certification; and
- Requirement to be in the zone.

Support Zone

The Support Zone (SZ) is an uncontaminated area that will be the field support area for the Site operations. The SZ provides for field team communications and staging for emergency response. Appropriate sanitary facilities and safety equipment will be located in this zone. Potentially contaminated personnel or materials are not allowed in this zone. The only exception will be appropriately packaged/decontaminated and labeled samples.

5. Job Hazard Evaluation

Roux's work at the Site is expected to entail a variety of physical, chemical, and biological hazards, all of which must be sufficiently managed to allow the work to be performed safely. Some of the hazards are Site-specific (i.e., they are associated with the nature, physical characteristics, and/or routine operation of the Site itself) while others are activity-specific (i.e., they are associated with [or arise from] the particular activity being performed). The various hazards can be grouped into the following categories:

Caught/Crushed – the potential to become caught in, under, between, or by an object or parts of an object, such as equipment with parts that open and close or move up and down ("pinch points") or equipment that rotates, and the accompanying potential to have body parts cut, mangled, or crushed thereby.

Contact – the potential to be struck by or against moving or stationary objects that can cause physical injury, such as heavy machinery, overhead piping, moving vehicles, falling objects, and equipment (including tools and hand-held equipment) or infrastructure with the ability to cut or impale.

Energy Sources – the potential for bodily harm associated with energy sources, most notably electricity, but also including latent energy sources such as compressed air and equipment under tension (which when released could cause injurious contact or a fall).

Ergonomics – the potential for musculoskeletal injury associated with lifting/carrying, pushing/pulling, bending, reaching, and other physical activity attributable to poor body position/mechanics, repetitive motion, and/or vibration.

Exposure – the potential for injury/illness due to physical, chemical, or biological exposures in the work environment, including but not limited to temperature extremes, solar radiation, and noise (physical), chemical splashes and hazardous atmospheres (chemical), and animal/insect bites and poisonous plants (biological).

Falls – the potential to slip or trip and thus fall or drop a load, resulting in bodily injury to oneself or others

The foregoing is intended to provide Roux employees with a general awareness of the hazards involved with Site work. A more detailed review of the potential hazards associated with each specific activity planned for the Site (or on-going activity, as the case may be) is provided in the activity-specific Job Safety Analysis (JSA) forms in Appendix A. As can be seen in the JSA forms, the hazards are identified by category per the above, and specific measures designed to mitigate/manage those hazards are also identified. In preparing the JSA forms, all categories of hazards were considered, and all anticipated potential hazards were identified to the extent possible based on the experience of the personnel preparing and reviewing the JSA forms. However, there is always the possibility for an unanticipated hazard to arise, potentially as condition change over the course of the workday. Roux personnel must maintain a continual awareness of potential hazards in the work zone, regardless of whether the hazard is identified in the JSA form. Particular attention should be paid to hazards associated with exposure to hazardous substances (see Table 1 for a listing of the hazardous substances most likely to be encountered in environmental media at the Site) and to Site personnel being located "in the line of fire" with respect to moving equipment, pinch points, and latent energy (e.g., being located or having body parts located within the swing radius of an excavator, between two sections of pipe being connected, below a piece of suspended equipment, or adjacent to a compressed air line).

5.1 Employee Notification of Hazards and Overall Site Information Program

The information in the JSAs and safety data sheets is made available to all employees and subcontractors who could be affected by it prior to the time they begin their work activities. Modifications to JSAs are communicated during routine pre-work briefings.

6. Emergency Response Plan

This emergency response plan details actions to be taken in the event of site emergencies. The PM and SHSO is responsible for the implementation of emergency response procedures on-Site. The SHSO/PM provides specific direction for emergency action based upon information available regarding the incident and response capabilities and initiates emergency procedures and notification of appropriate authorities. In the event of an emergency, site personnel are evacuated and do not participate in emergency response activities, response is facilitated through external emergency services.

6.1 Emergency Response

The SHSO, after investigating the incident and relevant information, shall determine the level of response required for containment, rescue, and medical care. Limited on-Site emergency response activities could occur; therefore, the SHSO is responsible for notifying external emergency response agencies. The SHSO provides relevant information to the responding organizations, including but not limited to the hazards associated with the emergency incident, potential containment problems, and missing site personnel.

6.2 Emergency Alerting and Evacuation

If evacuation notice is given, site workers leave the worksite, if possible, by way of the nearest exit. Appropriate primary and alternate evacuation routes and assembly areas have been identified. The routes and assembly area will be determined by conditions at the time of the evacuation based on wind direction, the location of the hazard source, and other factors as determined by SHSO/PM.

Personnel exiting the site gather at a designated assembly point. To determine that everyone has successfully exited the site, personnel will be accounted for at the assembly site. If any worker cannot be accounted for, notification is given so that appropriate action can be initiated. Subcontractors on this site have coordinated their emergency response plans to ensure that these plans are compatible and potential emergencies are recognized, alarm systems are clearly understood, and evacuation routes are accessible to all personnel relying upon them.

6.3 Emergency Medical Treatment and First Aid

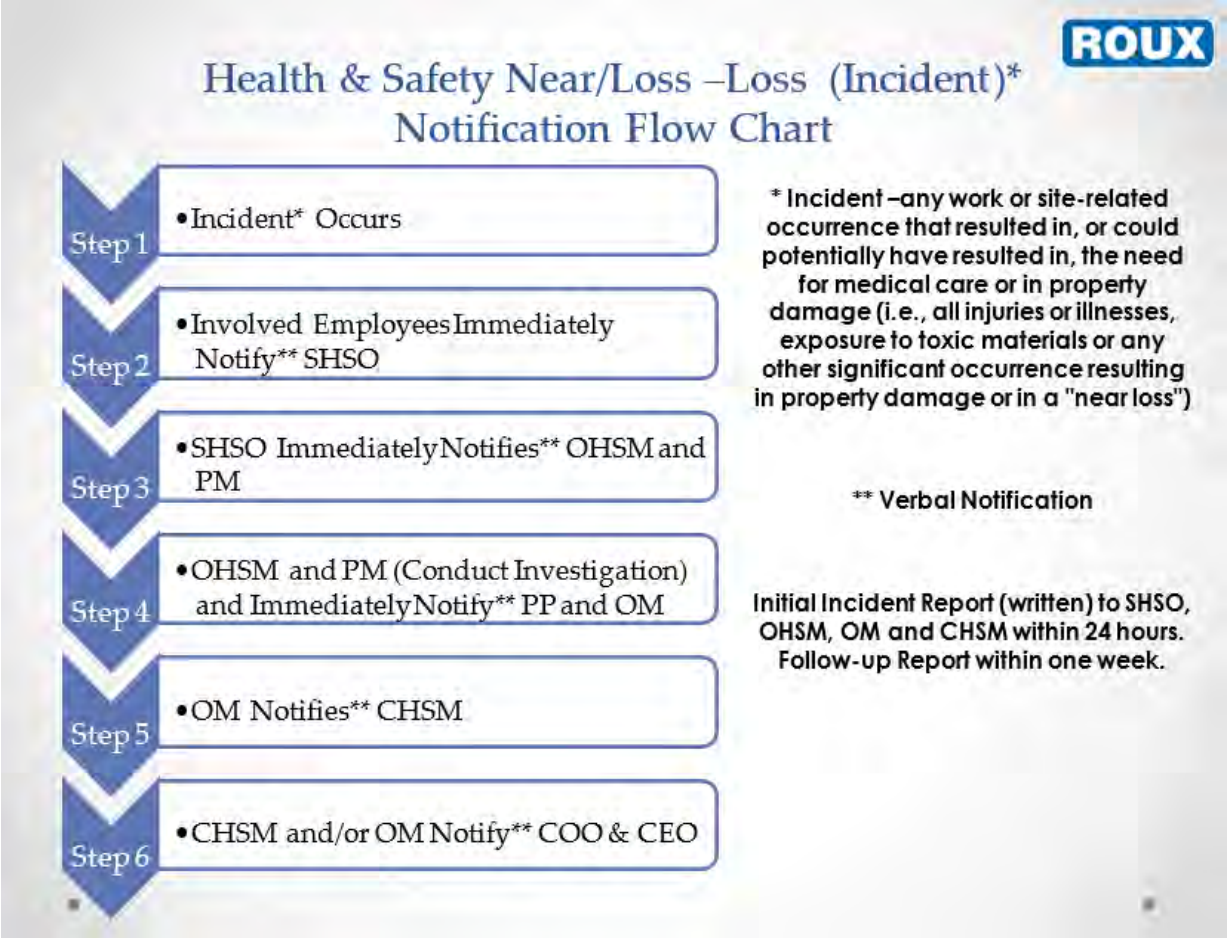
In the event of a work-related injury or illness, employees are required to follow procedures outlined below. All work-place injury and illness situations require Roux's Project and Corporate Management Team to be notified when an injury / illness incident occurs, and communication with the contracted Occupational Health Care Management Provider, AllOne Health, is initiated. The Injury/Illness Notification Flowchart is provided below and within Roux's Incident Investigation and Reporting program included as Appendix C.

If on-Site personnel require any medical treatment, the following steps will be taken:

1. Notify Roux's Project and Corporate Management Team for any work-related injury and/or illness occurrence and communicate with the contracted Occupational Health Care Management Provider, AllOne Health, immediately following the notifications provided above.
2. Based on discussions with the Project Team, Corporate Management, and the AOH evaluation, if medical attention beyond on-Site First Aid is warranted, transport the injured / ill person (IP) to the Urgent Care Center, or notify the Fire Department or Ambulance Emergency service and request an ambulance or transport the victim to the hospital, and continue communications with Corporate

Management Team. A Hospital Route and Urgent Care map with location to New York Presbyterian Hospital/ CityMD is included in Figures 2 and 3.

3. Decontaminate to the extent possible prior to administration of first aid or movement to medical or emergency facilities.
4. First aid medical support will be provided by onsite personnel trained and certified in First Aid, Cardio Pulmonary Resuscitation (CPR), Automatic External Defibrillation (AED), and Blood-Borne Pathogens (BBP) Awareness, until relieved by emergency medical services (EMS).
5. The SHSO and Project Manager will perform a Loss Investigation (LI) and the Project Team will complete the final Loss Report. If a Roux employee is involved in a vehicular incident, the employee must also complete the Acord Automobile Loss Notice.



6.4 Adverse Weather Conditions

In the event of adverse weather conditions, the SHSO or project principal will determine if work can continue without sacrificing the health and safety of all field workers. Some of the items to be considered prior to determining if work should continue are:

- Potential for heat stress and heat-related injuries.
- Potential for cold stress and cold-related injuries.
- Treacherous weather-related conditions.
- Limited visibility.

- Electrical storm potential.

Site activities will be limited to daylight hours and acceptable weather conditions. Inclement working conditions include heavy rain, fog, high winds, and lightning. Observe daily weather reports and evacuate if necessary in case of inclement weather conditions.

6.5 Electrical Storm Guidelines

In the event that lightning and/or thunder are observed while working on-Site, all on-Site activities shall stop and personnel shall seek proper shelter (e.g., substantial building, enclosed vehicle, etc.). Work shall not resume until the threat of lighting has subsided and no lightning or thunder has been observed for 30 minutes. If the possibility of lightning is forecasted for the day, advise the on-Site personnel on the risks and proper procedure at the pre-work safety briefing. Continuously monitor for changing weather conditions and allow enough time to properly stop work if lightning is forecast.

7. Safety Procedures

This section of the HASP presents the specific safety procedures to be implemented during Roux's activities at the Site in order to protect the health and safety of various on-site personnel. Minimum OSHA-mandated procedures are presented first, followed by client- and Site-specific procedures. Lastly, activity-specific procedures are discussed. These Site- and activity-specific procedures supplement the general safety procedures included in Roux's Corporate Health and Safety Manual, which also must be followed in their entirely.

7.1 Training

At a minimum, Site personnel who will perform work in areas where there exists the potential for toxic exposure will be health and safety-trained prior to performing work on the Site per OSHA 29 CFR 1910.120(e) and 29 CFR 1926.65(e). More specifically, all Roux, subcontractor, and other personnel engaged in sampling and remedial activities at the Site and who are exposed or potentially exposed to hazardous substances, health hazards, or safety hazards must have received at a minimum the 40 hour initial HAZWOPER training consistent with the requirements of 29CFR 1910.120(e)(3)(i) training and a minimum of 3 days' actual field experience under the direct supervision of a trained experienced supervisor, plus 8 hours of refresher training on an annual basis. Depending on tasks performed, less training may be permitted. Evidence of such training must be maintained at the Site at all times. Furthermore, all on-Site management and supervisory personnel directly responsible for or who supervise the employees engaged in Site remedial operations, must have received an additional 8 hours of specialized training at the time of job assignment on topics including, but not limited to, the employer's safety and health program and the associated employee training program, personal protective equipment program, spill containment program, and health hazard monitoring procedure and techniques, plus 8 hours of refresher training on an annual basis.

Roux personnel training records are maintained in a corporate database with records available upon request from either the OHSM/SHSO/CHSM or Human Resources Department.

7.2 Site-Specific Safety Briefings for Visitors

A Site-specific briefing is provided to all site visitors who enter this site beyond the site entry point. For visitors, the Site-specific briefing provides information about site hazards; the site lay-out, including work zones and places of refuge; the emergency alarm system and emergency evacuation procedures; and other pertinent safety and health requirements as appropriate.

7.3 HASP Information and Site-Specific Briefings for Workers

Site personnel review this HASP and are provided a Site-specific tailgate briefing prior to the commencement of work to ensure that employees are familiar with this HASP and the information and requirements it contains as well as relevant JSAs. Additional briefings are provided as necessary to notify employees of any changes to this HASP as a result of information gathered during ongoing site characterization and analysis. Conditions for which we schedule additional briefings include but are not limited to: changes in site conditions, changes in the work schedule/plan, newly discovered hazards, and incidents occurring during site work.

7.4 Medical Surveillance

The medical surveillance section of the Health and Safety Plan describes how worker health status is monitored at this site. Medical surveillance is used when there is the potential for worker exposure to hazardous substance at levels above OSHA permissible exposure limits or other published limits. The purpose of a medical surveillance program is to medically monitor worker health to ensure that personnel are not adversely affected by site hazards.

7.4.1 Site Medical Surveillance Program

Medical surveillance requirements are based on a worker's potential for exposure as determined by the site characterization and job hazard analysis documented in Section 4 and JSAs within Appendix A of this HASP and in compliance with the requirements of 29 CFR 1910.120(f)(2). Based on site information and use of direct reading instruments, limited use of respirators (less than 30 days per year), and the absence of an employee-staffed HAZMAT team, a limited medical surveillance program is required and implemented at this site. The medical surveillance program provides that:

1. Workers assigned to tasks requiring the use of respirators receive medical examinations in accordance with 29 CFR 1910.134(e) to ensure they are physically capable to perform the work and use the equipment.
2. If a worker is injured, becomes ill, or develops signs or symptoms of possible over-exposure to hazardous substance or health hazards, medical examinations are provided to that worker as soon as possible after the occurrence and as required by the attending physician.
3. These medical examinations and procedures are performed by or under the supervision of a licensed physician and are provided to workers free of cost, without loss of pay, and at a reasonable time and place. In addition, the need to implement a more comprehensive medical surveillance program will be re-evaluated after any apparent over-exposure.

7.4.2 Medical Recordkeeping Procedures

Medical recordkeeping procedures are consistent with the requirements of 29 CFR 1910.1020 and are described in the company's overall safety and health program. A copy of that program is available at our Islandia, New York office.

The following items are maintained in worker medical records:

- Respirator fit test and selection;
- Physician's medical opinion of fitness for duty (pre-placement, periodic, termination);
- Physician's medical opinion of fitness for respirator protection (pre-placement, periodic); and
- Exposure monitoring results.

7.4.3 Program Review

The medical program is reviewed to ensure its effectiveness. The Corporate Health and Safety Manager, in coordination with the Human Resources Director, is responsible for this review. At minimum, this review consists of:

- Review of accident and injury records and medical records to determine whether the causes of accidents and illness were promptly investigated and whether corrective measures were taken wherever possible;
- Evaluation of the appropriateness of required medical tests based on site exposures; and

- Review of emergency treatment procedures and emergency contacts list to ensure they were site-specific, effective, and current.

7.5 Personnel Protection

Site safety and health hazards are eliminated or reduced to the greatest extent possible through engineering controls and work practices. Where hazards are still present, a combination of engineering controls, work practices and PPE are used to protect employees. Appropriate personal protective equipment (PPE) shall be worn by Site personnel when there is a potential exposure to chemical hazards or physical hazards (e.g., falling objects, flying particles, sharp edges, electricity, and noise [Appendix B]), as determined by the SHSO, and described in the Personal Protective Equipment Program attached as Appendix F. The level of personal protection, type, and kind of equipment selected will depend on the hazardous conditions and in some cases cost, availability, compatibility with other equipment, and performance. An accurate assessment of all these factors will be made before work can be safely executed.

Roux maintains a comprehensive written PPE program that addresses proper PPE selection, use, maintenance, storage, fit, and inspection. PPE to be used at the Site will meet the appropriate American National Standards Institute (ANSI) standards and the following OSHA (General Industry) standards for minimum PPE requirements.

The minimum level of PPE for entry onto the Site is Level D. The following equipment shall be worn:

- Work uniform (long pants, sleeved shirt);
- Hard hat;
- Steel or composite toe work boots;
- Safety Glasses (must comply with one of the following ANSI/ISEA Z87.1-2010, ANSI Z87.1-2003, ANSI Z87.1-2003);
- Boot Covers (as needed);
- Hearing Protection (as needed);
- High visibility clothing (shirt/vest); and
- Hand Protection (e.g., minimum cut resistance meeting ANSI 105-2000 Level 2).

Note that jewelry shall be removed or appropriately secured to prevent it from becoming caught in rotating equipment or unexpectedly snagged on a fixed object. (e.g., wrist watches, bracelets, rings, chains and necklaces, open earrings). Do not wear loose clothing and all shoulder length hair should be tied back.

Site specific PPE ensembles and materials are identified within task specific JSAs located within Appendix A, and any upgrades or downgrades of the level of protection (i.e., not specified in the JSA) must be immediately communicated to all Roux personnel and subcontractors as applicable. PPE is used in accordance with manufacturer's recommendations.

7.6 Monitoring

An air monitoring program is important to the safety of on- and off-Site personnel. A preliminary survey, to establish background conditions in the immediate sampling area, may be made prior to the initiation of Site work including, but not limited to, monitoring wind direction and approximate temperature during all invasive

site activities. This survey will be conducted with the appropriate air monitoring instrument(s) as warranted by the field activity. Once this survey has been complete, any change in the type of PPE will be determined.

Air monitoring may be performed to verify that the proper level of equipment is used and to determine if increased protection or work stoppage is required. The following equipment may be used to monitor conditions:

- A Photoionization Detector (PID) with a lamp energy of 10.6 eV will be used to provide direct readings of organic vapor concentrations during intrusive activities to determine that personnel protection is adequate. Concentrations shall be recorded during intrusive activities with the potential to encounter contaminant vapors.

Monitoring equipment will be calibrated in accordance with applicable regulatory requirements and manufacturer specifications.

Below are monitoring action levels for Site-specific chemicals of concern. In the event that PID readings above the thresholds identified below are sustained for 5 minutes in the breathing zone, worker protection will require upgrading following notification to the OHSM and applicable parties (e.g., client, board of health, regulators, etc.).

OVM/Multi-gas Meter Action Levels

Action Levels for Respiratory Protection	
OVM Reading in Breathing Zone (ppm)	
<5	No Action
≥5 - <25	Level C
≥25	Cease Field Operations
Multi-gas Reading in Breathing Zone (%)	
LEL ≥2	Cease Field Operations
O_2 <19.5 or >21.5	Cease Field Operations

7.7 Community Air Monitoring Program

In accordance with the DER-10 Technical Guidance for Site Investigation and Remediation dated May 2010 (DER-10) issued by the New York State Department of Environmental Conservation (NYSDEC), a community air monitoring plan (CAMP) will be implemented during intrusive Site activities. The Generic CAMP, as provided in DER-10 Appendix 1A, is included in Appendix G of this HASP and includes action levels.

7.8 Tailgate Safety Meetings

A designated Site worker will provide daily safety briefings (e.g., tailgate meetings) including, but not limited to, the following scenarios:

- When new operations are to be conducted;
- Whenever changes in work practices must be implemented; and
- When new conditions are identified and/or information becomes available.

Daily safety briefings shall be recorded on the Roux Daily Tailgate Health and Safety Meeting Log/Daily Site Safety Checklist, and all completed forms will become a part of the project file.

7.9 Spill Containment

Spill containment equipment and procedures should, at a minimum, meet the requirements of the facility's Spill Prevention, Control and Countermeasure Plan, if applicable. Otherwise, spill containment equipment and procedures must be considered depending on the task including, but no limited to, chemical/product transfer points and handling.

7.9.1 Initial Spill Notification and Response

Any worker who discovers a hazardous substance spill will immediately notify the Project Manager, Rachel Henke. The worker will, to his/her best ability, report the hazardous substance involved, the location of the spill, the estimated quantity of material spilled, the direction/flow of the spill material, related fire/explosion incidents, and any associated injuries without compromising their own safety.

7.9.2 Spill Evaluation and Response

Rachel Henke, Project Scientist, is responsible for evaluating spills and determining the appropriate response. When this evaluation is being made, the spill area will be isolated and demarcated to the extent possible. If necessary to protect nearby community members, notification of the appropriate authorities is made by the PM as appropriate. On-site response is limited to small spills (e.g., <10 gallons), large spills require external emergency responders who will be contacted by the SHSO.

7.10 Decontamination

The decontamination section of the HASP describes how personnel and equipment are decontaminated when they leave the Exclusion Zone. This section also describes how residual waste from decontamination processes is disposed. The site decontamination procedures are designed to achieve an orderly, controlled removal or neutralization of contaminants that may accumulate on personnel or equipment. These procedures minimize worker contact with contaminants and protect against the transfer of contaminants to clean areas of the site and off-site. They also extend the useful life of PPE by reducing the amount of time that contaminants contact and can permeate PPE surfaces. Decontamination is facilitated within the contamination reduction zone at this site.

7.10.1 Decontamination Procedures for Personnel and PPE

The following are general decontamination procedures established and implemented at this site.

1. Decontamination is required for all workers exiting a contaminated area. Personnel may re-enter the Support Zone only after undergoing the decontamination procedures described below in the next section.
2. Protective clothing is decontaminated, cleaned, laundered, maintained, and/or replaced as needed to ensure its effectiveness.
3. PPE used at this site that requires maintenance or parts replacement is decontaminated prior to repairs or
4. PPE used at this site is decontaminated or prepared for disposal on the premises. Personnel who handle contaminated equipment have been trained in the proper means to do so to avoid hazardous exposure.
5. This site uses an off-site laundry for decontamination of PPE. The site has informed that facility of the hazards associated with contaminated PPE from this site.

6. The site requires and trains workers that if their permeable clothing is splashed or becomes wetted with a hazardous substance, they will immediately exit the work zone, perform applicable decontamination procedures, shower, and change into uncontaminated clothing.
7. Procedures for disposal of decontamination waste meet applicable local, State, and Federal regulations.

7.10.2 Decontamination Procedures for Equipment

All tools, equipment, and machinery from the Exclusion Zone or CRZ are decontaminated in the CRZ prior to removal to the Support Zone. Equipment decontamination procedures are designed to minimize the potential for hazardous skin or inhalation exposure and to avoid cross-contamination and chemical incompatibilities.

General Equipment Decontamination Procedures:

1. Decontamination is required for all equipment exiting a contaminated area. Equipment may re-enter the Support Zone only after undergoing the equipment decontamination procedures.
2. Vehicles that travel regularly between the contaminated and clean areas of the site are carefully decontaminated each time they exit the Exclusion Zone and the effectiveness of that decontamination is monitored to reduce the likelihood that contamination will be spread to other parts of the site.
3. Particular attention is given to decontaminating tires, scoops, and other parts of heavy equipment that are directly exposed to contaminants and contaminated soil.

The following items may be used to decontaminate equipment:

- Fresh water rinse;
- Non-phosphorus detergent wash;
- Distilled water rinse;
- Acetone rinse;
- Distilled water rinse; and
- A steam cleaner or pressure washer (heavy equipment only).

7.10.3 Monitoring the Effectiveness of Decontamination Procedures

Visual examination and sampling are used to evaluate the effectiveness of decontamination procedures. Visual examination is used to ensure that procedures are implemented as described and that they appear to control the spread of contaminants under changing site conditions. Visual examination is also used to inspect for signs of residual contamination or for contaminant permeation of PPE.

Personnel who work in contaminated areas of the site, either the Contamination Reduction Zone (CRZ) or the Exclusion Zone, are trained in the principles and practices of decontamination described in this section of the HASP and in related SOPs. If site procedures are changed as a result of inspection and monitoring, all affected employees are notified of these changes.

7.11 Confined Space Entry

The following is a list of the safety requirements for confined space entry at the Site:

- **ROUX PERSONNEL ARE NOT AUTHORIZED TO ENTER AN OSHA PERMIT REQUIRED CONFINED SPACE;**
- Currently the scope of work **DOES NOT** require personnel to enter permitted confined space for this project; and
- Any changes to the field activities that may necessitate confined space entry will be reported to the Project Principal and OHSM.

Confined space is defined as any space, depression, or enclosure that:

- Has limited opening for entry and egress;
- Is large enough for and employee to enter and perform assigned work; and
- Is not intended for continuous occupancy.

A permit required confined space is one that meets the definition of a confined space and has one or more of the following characteristics:

- May contain or produce life-threatening atmospheres due to oxygen deficiency the presence of toxic, flammable, or corrosive contaminants;
- Contains a material that has the potential for engulfment;
- Has an internal configuration that may cause an entrant to be trapped or asphyxiated by inwardly converging walls or by a floor that slopes downward and tapers to a smaller cross-section; and
- Contains any other serious safety or health hazards.

Although Roux personnel will not perform confined space entry, it is expected that subcontractors performing cleaning and mitigation and/or remedial measures activities may be required to enter structures that are considered to be a permit required confined space. Permitting of the confined space as well as hazard mitigation for entry will be completed by the subcontractor in accordance with 1910.146.

7.12 Client and Site-Specific

In addition to the OSHA-specific procedures discussed above, there may be client and site-specific safety procedures that must be adhered to during the performance of remedial activities at the Site.

7.13 Unusual or Significant Risks

Field activities that appear to have unusual or significant risks that cannot be adequately managed with existing risk tools such as LPS, HASPs, traffic safety plans, work permits, design and O&M practices, equipment HAZOPS or other safety tools must be referred to the CHSM to help with the assessment and management of the associated potential safety risks. Examples include the use of explosives for demolition, use of firearms to control wildlife, rappelling, demolition over water, etc.

7.14 Activity-Specific

In addition to the general hazards discussed above, there are activity-specific hazards associated with each work activity planned for the Site. An activity-specific JSA has been completed for each of the activities planned for the Site. JSAs are provided in Appendix A. In the event that new work activities or tasks are planned, JSAs will be developed and implemented prior to performing the new activities. In the absence of a JSA, the personnel performing work must prepare a field JSA and receive clearance from a designated competent safety official prior to performing any task with significant risk. In emergency situations where time is critical SPSAs will be utilized to identify the task, associated hazards and mitigative actions to take.

For lower risk activities (as deemed by the discretion of a Competent Person) where a JSA is determined to not be needed, the individual(s) conducting the activities must perform SPSAs prior to and during the work.

7.15 COVID-19

Measures for protecting workers from exposure to, and infection with, SARS-CoV-2, the virus that causes Coronavirus Disease 2019 (COVID-19), depend on the type of work being performed and exposure risk, including potential for interaction with people with suspected or confirmed COVID-19 and contamination of the work environment. Roux has performed an analysis of these risks based upon published government agency guidelines. Roux has developed health and safety guidance specific to COVID-19 which is provided as **Appendix H**.

8. Field Team Review

Each person performing work at or visiting this site shall sign this section after site-specific training is completed and before being permitted to access the CRZ or Exclusion Zone.

I have read and understand this Site-Specific Health and Safety Plan. I will comply with the provision contained therein.

Site/Project: 580-610 Gerard Avenue, Bronx, New York

Name Printed	Signature	Date

9. Approvals

By their signature, the undersigned certify that this HASP is approved and will be utilized at the 580-610 Gerard Avenue Site.

Patrick Kilkelly – Site Health and Safety Officer	Date
Kristina DeLuca - Office Health and Safety Manager	Date
Jessica Lam – Project Manager	Date
Robert Kovacs – Project Principal	Date

TABLE

Toxicological Properties of Hazardous Substances Present at the Site

Table 1. Toxicological, Physical, and Chemical Properties of Compounds Potentially Present at BH Ruth Red Hook, LLC, Brooklyn, New York

Compound	CAS #	ACGIH TLV	NIOSH REL	OSHA PEL	IDLH	Routes of Exposure	Toxic Properties	Target Organs	Physical/Chemical Properties
Acenaphthene	83-32-9	None established	None established	None established	None established	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, respiratory system	Eyes, skin, respiratory system	Brown solid
Acenaphthylene	208-96-8	None Established	None established	None established	None established	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, respiratory system	Eyes, skin, respiratory system	Yellow Solid Fl. Pt.=251°F
Arsenic (inorganic)	7440-38-2 (metal)	TWA 0.01 mg/m3	Ca C 0.002 mg/m3 [15-min]	TWA 0.010 mg/m3	Ca [5 mg/m3 (as As)]	Inhalation; ingestion; skin absorption; skin and/or eye contact	Ulceration of nasal septum, dermatitis, GI disturbances, peripheral neuropathy, resp irritation, hyperpigmentation of skin, [potential occupational carcinogen]	Liver, kidneys, skin, lungs, lymphatic sys	Metal: sliver-gray or tin-white, brittle, odorless solid BP: sublimes
Barium	7440-39-3	TWA 0.5 mg/m3	None established	TWA 0.5 mg/m3	None established	Inhalation, ingestion, skin contact	Irritation skin, respiratory system, digestive system	Skin, eyes, respiratory system	Yellow white powder BP: 1640 C
Benzene	71-43-2	TWA 0.5 ppm STEL 2.5 ppm	Ca TWA 0.1 ppm STEL 1 ppm	TWA 1 ppm ST 5 ppm	Ca [500 ppm]	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, respiratory system; dizziness; headache, nausea, staggered gait; anorexia, lassitude (weakness, exhaustion); dermatitis; bone marrow depression; [potential occupational carcinogen]	Eyes, skin, respiratory system, blood, central nervous system, bone marrow	Colorless to light yellow liquid with an aromatic odor [Note: Solid below 42 °F] BP: 176°F Fl.Pt. = 12°F LEL: 1.2% UEL: 7.8% Class B Flammable liquid
Benzo[a]anthracene	56-55-3	None established [skin cancer]	None established	None established	None established	Inhalation; ingestion; skin absorption; skin and/or eye contact	Irritation eyes, skin, respiratory system, CNS; skin cancer	Skin	Pale Yellow crystal, solid BP: 438 C
Benzo[a]pyrene	50-32-8	None established [cancer]	TWA 0.1 mg/m3	TWA 0.2 mg/m3	None established	Inhalation; ingestion; skin absorption; skin and/or eye contact	POISON. This material is an experimental carcinogen, mutagen, tumorigen, neoplastigen and teratogen. It is a probable carcinogen in humans and a known human mutagen. IARC Group 2A carcinogen. It is believed to cause bladder, skin and lung cancer. Exposure to it may damage the developing fetus. May cause reproductive damage. Skin, respiratory and eye irritant or burns.	Skin, eye, bladder, lung, reproductive	Yellow crystals or powder [found in cigarette smoke, coal tar, fuel exhaust gas and in many other sources] BP: 495 C
Benzo[b]fluoranthene	205-99-2	None established [cancer]	TWA 0.1 mg/m3	TWA 0.2 mg/m3	None established	Inhalation; ingestion; skin and/or eye contact	No data were identified on the toxicity of benzo[b]fluoranthene to humans. Based on results of studies in animals, IARC concluded that benzo[b]fluoranthene is possibly carcinogenic to humans	Respiratory system, skin, bladder, kidneys	Off-white to tan powder
Benzo[k]fluoranthene	207-08-9	None established	None established	None established	None established	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin, respiratory tract, gastrointestinal; fatal if swallowed, inhaled, absorbed through the skin; vomiting, nausea, diarrhea	Lungs, respiratory system	Yellow crystals BP: 480 C
Benzo(g,h,i)perylene	191-24-2	None established	None established	California permisible exposure limits for chemical contaminants (Title 8, Article 107) PEL 0.2 mg/m3	None established	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin, respiratory tract, very toxic to aquatic life with long lasting effects	Eyes, skin, respiratory system	Pale Yellow -Green Crystals BP: 550°C
Beryllium	7440-41-7 (metal)	TWA 0.00005 mg/m^3	Ca C 0.0005 mg/m^3	TWA 0.002 mg/m^3 C 0.005 mg/m^3 (30 minutes) with a maximum peak of 0.025 mg/m^3	Ca [4 mg/m^3 (as Be)]	inhalation, skin and/or eye contact	Berylliosis (chronic exposure): anorexia, weight loss, lassitude (weakness, exhaustion), chest pain, cough, clubbing of fingers, cyanosis, pulmonary insufficiency; irritation eyes; dermatitis; [potential occupational carcinogen]	Eyes, skin, respiratory system	Metal: A hard, brittle, gray-white solid. BP: 4532°F
Cadmium	7440-43-9 (metal)	TWA 0.01 mg/m^3	Ca	TWA 0.005 mg/m^3	Ca [9 mg/m^3 (as Cd)]	inhalation, ingestion	Pulmonary edema, dyspnea (breathing difficulty), cough, chest tightness, substernal (occurring beneath the sternum) pain; headache; chills, muscle aches; nausea, vomiting, diarrhea; anosmia (loss of the sense of smell), emphysema, proteinuria, mild anemia; [potential occupational carcinogen]	respiratory system, kidneys, prostate, blood	Metal: Silver-white, blue-tinged lustrous, odorless solid. BP: 1409°F
Carbon Tetrachloride	56-23-5	TWA 5 ppm STEL 10 ppm	Ca ST 2 ppm (12.6 mg/m3) [60 minute]	TWA 10 ppm C 25 ppm 200 ppm (5-minute maximum peak in any 4 hours)	Ca [200 ppm]	inhalation, skin absorbtion, ingestion, skin and/or eye contact	irritation eyes, skin; central nervous system depression; nausea, vomiting; liver, kidney injury; drowsiness, dizziness, incoordination; [potential occupational carcinogen]	central nervous system, eyes, lungs, liver, kidneys, skin	Colorless liquid with a characteristic ether-like odor. BP: 170°F
Carbon Monoxide	630-08-0	TWA 25 ppm	TWA 35 ppm C 200 ppm	TWA 50 ppm	1,200 ppm	inhalation	Carboxyhemogloemia	Blood	Colorless, odorless gas

Table 1. Toxicological, Physical, and Chemical Properties of Compounds Potentially Present at BH Ruth Red Hook, LLC, Brooklyn, New York

Compound	CAS #	ACGIH TLV	NIOSH REL	OSHA PEL	IDLH	Routes of Exposure	Toxic Properties	Target Organs	Physical/Chemical Properties
Chromium	7440-47-3	TWA 0.5 mg/m^3 (metal and Cr III compounds) TWA 0.05 mg/m^3 (water-soluble Cr VI compounds) TWA 0.01 mg/m^3 (insoluble Cr IV compounds)	TWA 0.5 mg/m^3	TWA 1 mg/m^3	250 mg/m^3 (as Cr)	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin; lung fibrosis (histologic)	Eyes, skin, respiratory system	Blue-white to steel-gray, lustrous, brittle, hard, odorless solid. BP: 4788°F
Chrysene; Phenanthrene; Pyrene; Coal tar pitch volatiles	65996-93-2	TWA 0.2 mg/m3	Ca TWA 0.1 mg/m^3 (cyclohexane-extractable fraction)	TWA 0.2 mg/m^3 (benzene-soluble fraction)	Ca [80 mg/m^3]	Inhalation, skin and/or eye contact	Dermatitis, bronchitis, [potential occupational carcinogen]	Respiratory system, skin, bladder, kidneys	Black or dark-brown amorphous residue. Combustible Solids
Coal Tar Pitch Volatiles; Chrysene; Phenanthrene; Pyrene	65996-93-2	TWA 0.2 mg/m^3	Ca TWA 0.1 mg/m^3 (cyclohexane-extractable fraction)	TWA 0.2 mg/m^3 (benzene-soluble fraction)	Ca [80 mg/m^3]	Inhalation, skin and/or eye contact	Dermatitis, bronchitis, [potential occupational carcinogen]	respiratory system, skin, bladder, kidneys	Black or dark-brown amorphous residue. Combustible Solids
1,1-Dichloroethane	75-34-3	TWA 100 ppm	TWA 100 ppm (400 mg/m^3)	TWA 100 ppm (400 mg/m^3)	3000 ppm	inhalation, ingestion, skin and/or eye contact	Irritation skin; central nervous system depression; liver, kidney, lung damage	Skin, liver, kidneys, lungs, central nervous system	Colorless, oily liquid with a chloroform-like odor. BP: 135°F Fl.P: 2°F UEL: 11.4% LEL: 5.4%
1,2-Dichloroethane (Ethylene Dichloride)	107-06-2	TWA 10 ppm	Ca TWA 1 ppm (4 mg/m^3) STEL 2 ppm (8 mg/m^3)	TWA 50 ppm C 100 ppm 200 ppm [5-minute maximum peak in any 3 hours]	Ca [50 ppm]	inhalation, ingestion, skin absorption, skin and/or eye contact	Irritation eyes, corneal opacity; central nervous system depression; nausea, vomiting; dermatitis; liver, kidney, cardiovascular system damage; [potential occupational carcinogen]	Eyes, skin, kidneys, liver, central nervous system, cardiovascular system	Colorless liquid with a pleasant, chloroform-like odor. [Note: Decomposes slowly, becomes acidic & darkens in color.] BP: 182°F Fl.P: 56°F UEL: 16% LEL: 6.2% Class IB Flammable Liquid
1,2-Dichloroethene (total)	540-59-0	TWA 200 ppm	TWA 200 ppm (790 mg/m^3)	TWA 200 ppm (790 mg/m^3)	1000 ppm	inhalation, ingestion, skin and/or eye contact	Irritation eyes, respiratory system; central nervous system depression	Eyes, respiratory system, central nervous system	Colorless liquid (usually a mixture of the cis & trans isomers) with a slightly acrid, chloroform-like odor BP: 118-140°F Fl.P: 36-39°F UEL: 12.8% LEL: 5.6% Class IB Flammable Liquid
cis-1,2-Dichloroethene	156-59-2	TWA 200 ppm	TWA 200 ppm	TWA 200 ppm	None established	inhalation, skin absorption, ingestion	Harmful if swallowed, inhaled, or absorbed through skin. Irritant. Narcotic. Suspected carcinogen	Skin	Colorless liquid BP: 60 C Fl.P: 4 C UEL: 12.8% LEL: 9.7 %
trans-1,2-Dichloroethene	156-60-5	TWA 200 ppm	None established	TWA 200 ppm STEL 250 ppm (skin)	None established	inhalation, skin absorption, ingestion, skin and/or eye contact	Narcotic. Irritation eyes, skin, respiratory tract, mucous membrane; CNS depression.	Respiratory tract, mucous membrane, eyes, skin, CNS	Colorless liquid with a fruity pleasant odor BP: 48°C Fl.P 6C UEL: 12.8% LEL: 9.7%
Dibenzo[a,h]anthracene	53-70-3	None established	None established	None established	None established	Inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin	Eyes, skin; skin photosensitization.	Colorless crystalline powder BP: 524°C
Dibenzofuran	132-64-9								
Diesel Fuel #2	68476-34-6	TWA 100 mg/m^3; Skin notation	None established	Designated as an OSHA Select Carcinogen	None established	ingestion, skin and/or eye contact	Kidney damage; potential lung damage; suspected carcinogen; irritation of eyes, skin, respiratory tract; dizziness, headache, nausea; chemical pneumonitis (from aspiration of liquid); dry, red skin; irritant contact dermatitis; eye redness, pain.	Eyes, skin, kidneys	Clear yellow brown combustible liquid; floats on water; distinct diesel petroleum hydrocarbon odor. BP: 356-716°F Fl.P: 154.4-165.2°F LEL: 0.6% UEL: 7.0%
Ethylbenzene	100-41-4	TWA 20 ppm	TWA 100 ppm (435 mg/m^3) STEL 125 ppm (545 mg/m^3)	TWA 100 ppm (435 mg/m^3)	800 ppm [10%LEL]	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, mucous membrane; headache; dermatitis; narcosis, coma	Eyes, skin, respiratory system, central nervous system	Colorless liquid with an aromatic odor. BP: 277°F Fl.P: 55°F UEL: 6.7% LEL: 0.8% Class IB Flammable Liquid
Fluoranthene	206-44-0	None established	None established	None established	None established	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin; possible burns; heart and liver injury, pulmonary edema, respiratory arrest, gastrointestinal disturbances.	Heart, liver, lungs.	Yellow needles.

Table 1. Toxicological, Physical, and Chemical Properties of Compounds Potentially Present at BH Ruth Red Hook, LLC, Brooklyn, New York

Compound	CAS #	ACGIH TLV	NIOSH REL	OSHA PEL	IDLH	Routes of Exposure	Toxic Properties	Target Organs	Physical/Chemical Properties
Fuel Oil #2	68476-30-2	TWA 100 mg/m3; Skin notation	None established	None established	None established	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin; CNS effects; nausea, vomiting, headache, cramping, dizziness, weakness, loss of coordination,, drowsiness; kidney, liver damage	Eyes, skin, CNS	Clear or yellow to red oily liquid, kerosene-like odor BP: 347 - 689 °F UEL:5-6% LEL: 0.7-1.0%
Gasoline	8006-61-9	TWA 300 ppm STEL 500 ppm	Carcinogen	None established	Ca [IDLH value has not been determined]	Skin absorption; inhalation; ingestion; skin and/or eye contact	Eyes and skin irritation, mucous membrane; dermatitis; headache; listlessness, blurred vision, dizziness, slurred speech, confusion, convulsions; chemical pneumonitis; possible liver, kidney damage [Potential occupational carcinogen]	Eyes, skin, respiratory system, CNS, Liver, Kidneys	Clear liquid with a characteristic odor, aromatic Fl.Pt. = -45°F LEL = 1.4% UEL = 7.6% Class 1B Flammable Liquid
Hydrogen Sulfide	7783-06-4	TWA 1 ppm STEL 5 ppm	C 10 ppm (15 mg/m^3) [10-minute]	C 20 ppm 50 ppm [10-minute maximum peak]	100 ppm	inhalation, skin and/or eye contact	Irritation eyes, respiratory system; apnea, coma, convulsions; conjunctivitis, eye pain, lacrimation (discharge of tears), photophobia (abnormal visual intolerance to light), corneal vesiculation; dizziness, headache, lassitude (weakness, exhaustion), irritability, insomnia; gastrointestinal disturbance; liquid: frostbite	Eyes, respiratory system, central nervous system	Colorless gas with a strong odor of rotten eggs. BP: -77°F UEL: 44.0% LEL: 4.0% Flammable Gas
Indeno[1,2,3-cd]pyrene	193-39-5	None established	None established	None established	None established	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin; possible human carcinogen (skin); weakness; affect liver, lung tissue, renal tissue; impairment of blood forming tissue	Skin	Fluorescent green-yellow crystalline solid BP: 536 C
Lead (inorganic)	7439-92-1	TWA 0.05 mg/m^3	TWA (8-hour) 0.050 mg/m^3	TWA 0.050 mg/m^3	100 mg/m^3 (as Pb)	inhalation, ingestion, skin and/or eye contact	Lassitude (weakness, exhaustion), insomnia; facial pallor; anorexia, weight loss, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremor; paralysis wrist, ankles; encephalopathy; kidney disease; irritation eyes; hypertension	Eyes, gastrointestinal tract, central nervous system, kidneys, blood, gingival tissue	A heavy, ductile, soft, gray solid. BP: 3164°F Noncombustible Solid in bulk form
Mercury (organo) alkyl compounds (as Hg)	7439-97-6	TWA 0.01 mg/m^3 STEL 0.03 mg/m^3 [skin]	TWA 0.01 mg/m^3 STEL 0.03 mg/m^3 [skin]	TWA 0.01 mg/m^3 C 0.04 mg/m^3	2 mg/m^3 (as Hg)	inhalation, skin absorption, ingestion, skin and/or eye contact	Paresthesia; ataxia, dysarthria; vision, hearing disturbance; spasticity, jerking limbs; dizziness; salivation; lacrimation (discharge of tears); nausea, vomiting, diarrhea, constipation; skin burns; emotional disturbance; kidney injury; possible teratogenic effects	Eyes, skin, central nervous system, peripheral nervous system, kidneys	Appearance and odor vary depending upon the specific (organo) alkyl mercury compound
Mercury compounds [except (organo) alkyls] (as Hg) Mercury	7439-97-6	TWA 0.025 mg/m^3 (elemental and inorganic forms)	Hg Vapor: TWA 0.05 mg/m^3 [skin] Other: C 0.1 mg/m3 [skin]	TWA 0.1 mg/m^3	10 mg/m^3 (as Hg)	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin; cough, chest pain, dyspnea (breathing difficulty), bronchitis, pneumonitis; tremor, insomnia, irritability, indecision, headache, lassitude (weakness, exhaustion); stomatitis, salivation; gastrointestinal disturbance, anorexia, weight loss; proteinuria	Eyes, skin, respiratory system, central nervous system, kidneys	Metal: Silver-white, heavy, odorless liquid. [Note: "Other" Hg compounds include all inorganic & aryl Hg compounds except (organo) alkyls.] BP: 674°F
Methylene Chloride (Dichloromethane)	75-09-2	TWA 50 ppm, A3 - suspected human carcinogen	Ca	TWA 25 ppm STEL 125 ppm	Ca [2300 ppm]	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin; lassitude (weakness, exhaustion), drowsiness, dizziness; numbness, tingle limbs; nausea; [potential occupational carcinogen]	Eyes, skin, cardiovascular system, central nervous system	Colorless liquid with a chloroform-like odor BP: 104°F UEL: 23% LEL: 13%
Naphtha (Rubber Solvent)	8030-30-6	None established	TWA 100 ppm (400 mg/m^3)	TWA 100 ppm (400 mg/m^3)	1000 ppm [10%LEL]	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, nose; dizziness, drowsiness; dermatitis; in animals: liver, kidney damage	Eyes, skin, respiratory system, central nervous system, liver, kidneys	Reddish-brown, mobile liquid with an aromatic odor BP: 320-428°F Fl.P: 100-109°F Class II Combustible Liquid
Naphthalene	91-20-3	TWA 10 ppm [skin]	TWA 10 ppm (50 mg/m^3) STEL 15 ppm (75 mg/m^3)	TWA 10 ppm (50 mg/m^3)	250 ppm	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes; headache, confusion, excitement, malaise (vague feeling of discomfort); nausea, vomiting, abdominal pain; irritation bladder; profuse sweating; jaundice; hematuria (blood in the urine), renal shutdown; dermatitis, optical neuritis, corneal damage	Eyes, skin, blood, liver, kidneys, central nervous system	Colorless to brown solid with an odor of mothballs. BP: 424°F Fl.P: 174°F UEL: 5.9% LEL: 0.9%
Petroleum hydrocarbons(Petroleum distillates)	8002-05-9	None established	TWA 350 mg/m^3 C 1800 mg/m^3 [15 min]	TWA 500 ppm (2000 mg/m^3)	1,100 [10% LEL]	Inhalation; ingestion; skin and/or eye contact	Irritation eyes, skin, nose, throat; dizziness, drowsiness, headache, nausea; dried/cracked skin; chemical pneumonitis	CNS, eyes, respiratory system, skin	Colorless liquid with a gasoline or kerosene-like odor BP: 86-460°F Fl. Pt = -40 to -86°F UEL: 5.9% LEL: 1.1% Flammable liquid
Polychlorinated Biphenyls (PCBs) (Chlorodiphenyl (42% Chlorine))	53469-21-9	TWA 1 mg/m^3	Ca TWA 0.001 mg/m^3	0.5 mg/m^3	5 ppm	Dermal; inhalation; ingestion; skin and/or eye contact	Irritation eyes; chloracne; liver damage; reproductive effects; [potential occupational carcinogen]	Eyes, skin, liver, respiratory system	Colorless to light-colored, viscous liquid, hydrocarbon odor, BP: 617 - 734°F, non-flammable, LEL: NA, UEL: NA
Selenium	7782-49-2	TWA 0.2 mg/m^3	TWA 0.2 mg/m^3	TWA 0.2 mg/m^3	1 mg/m^3 (as Se)	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, throat; visual disturbance; headache; chills, fever; dyspnea (breathing difficulty), bronchitis; metallic taste, garlic breath, gastrointestinal disturbance; dermatitis; eye, skin burns; in animals: anemia; liver necrosis, cirrhosis; kidney, spleen damage	Eyes, skin, respiratory system, liver, kidneys, blood, spleen	Amorphous or crystalline, red to gray solid. [Note: Occurs as an impurity in most sulfide ores.] BP: 1265°F

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Compound	CAS #	ACGIH TLV	NIOSH REL	OSHA PEL	IDLH	Routes of Exposure	Toxic Properties	Target Organs	Physical/Chemical Properties
Silver	7440-22-4 (metal)	TWA 0.1 mg/m^3 (metal, dust, fume) TWA 0.01 mg/m^3 (Soluble compounds, as Ag)	TWA 0.01 mg/m^3	TWA 0.01 mg/m^3	10 mg/m^3 (as Ag)	inhalation, ingestion, skin and/or eye contact	Blue-gray eyes, nasal septum, throat, skin; irritation, ulceration skin; gastrointestinal disturbance	Nasal septum, skin, eyes	Metal: White, lustrous solid BP: 3632°F
Tetrachloroethene	127-18-4	TWA 25 ppm STEL 100 ppm listed as A3, animal carcinogen	Ca Minimize workplace exposure concentrations	TWA 100 ppm C 200 ppm (for 5 minutes in any 3-hour period), with a maximum peak of 300 ppm	Ca [150 ppm]	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, throat, respiratory system; nausea; flush face, neck; dizziness, incoordination; headache, drowsiness; skin erythema (skin redness); liver damage; [potential occupational carcinogen]	Eyes, skin, respiratory system, liver, kidneys, central nervous system	Colorless liquid with a mild, chloroform-like odor. BP: 250°F Noncombustible Liquid
Toluene	108-88-3	TWA 20 ppm	TWA 100 ppm (375 mg/m^3) STEL 150 ppm (560 mg/m^3)	TWA 200 ppm C 300 ppm 500 ppm (10-minute maximum peak)	500 ppm	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, nose; lassitude (weakness, exhaustion), confusion, euphoria, dizziness, headache; dilated pupils, lacrimation (discharge of tears); anxiety, muscle fatigue, insomnia; paresthesia; dermatitis; liver, kidney damage	Eyes, skin, respiratory system, central nervous system, liver, kidneys	Colorless liquid with a sweet, pungent, benzene-like odor. BP: 232°F Fl.P: 40°F UEL: 7.1% LEL: 1.1% Class IB Flammable Liquid
1,1,1-Trichloroethane (Methyl Chloroform)	71-55-6	TWA 350 ppm STEL 450 ppm	C 350 ppm (1900 mg/m^3) [15-minute]	TWA 350 ppm (1900 mg/m^3)	700 ppm	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin; headache, lassitude (weakness, exhaustion), central nervous system depression, poor equilibrium; dermatitis; cardiac arrhythmias; liver damage	Eyes, skin, central nervous system, cardiovascular system, liver	Colorless liquid with a mild, chloroform-like odor. BP: 165°F UEL: 12.5% LEL: 7.5%
Trichloroethene	79-01-6	TWA 10 ppm STEL 25 ppm	Ca	TWA 100 ppm C 200 ppm 300 ppm (5-minute maximum peak in any 2 hours)	Ca [1000 ppm]	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin; headache, visual disturbance, lassitude (weakness, exhaustion), dizziness, tremor, drowsiness, nausea, vomiting; dermatitis; cardiac arrhythmias, paresthesia; liver injury; [potential occupational carcinogen]	Eyes, skin, respiratory system, heart, liver, kidneys, central nervous system	Colorless liquid (unless dyed blue) with a chloroform-like odor. BP: 189°F UEL(77°F): 10.5% LEL(77°F): 8%
Vinyl Chloride	75-01-4	TWA 1 ppm	Carcinogen	TWA 1 ppm C 5 ppm [15-minute]	Ca [IDLH value has not been determined]	inhalation, skin, and/or eye contact (liquid)	Lassitude (weakness, exhaustion); abdominal pain, gastrointestinal bleeding; enlarged liver; pallor or cyanosis of extremities; liquid: frostbite; [potential occupational carcinogen]	Liver, central nervous system, blood, respiratory system, lymphatic system	Colorless gas or liquid (below 7°F) with a pleasant odor at high concentrations. BP: 7°F UEL: 33.0% LEL: 3.6% Flammable Gas
Xylene (m, o & p isomers)	108-38-3, 95-47-6, 106-42-3	TWA 100 ppm STEL 150 ppm	TWA 100 ppm (435 mg/m^3)	TWA 100 ppm (435 mg/m^3)	900 ppm	Skin absorption, inhalation, ingestion, skin, and/or eye contact	Irritation eyes, skin, nose, throat; dizziness, excitement, drowsiness, incoordination, staggering gait; corneal vacuolization; anorexia, nausea, vomiting, abdominal pain; dermatitis	Eyes, skin, respiratory system, central nervous system, gastrointestinal tract, blood, liver, kidneys	Colorless liquid with an aromatic odor BP: 282°F, 292°F, 281°F Fl. Pt. 82°F, 90°F, 81°F LEL: 1.1%, 0.9%, 1.1% UEL: 7.0%, 6.7%, 7.0% Class C Flammable Liquid
Zinc Oxide	1314-13-2	TWA 2 mg/m3 STEL 10 mg/m^3	None established	TWA 10 mg/m3 (for zinc oxide fume)	None established	skin and/or eye contact, inhalation, ingestion	Irritation eyes, skin, respiratory tract; gastrointestinal disturbances	Eyes, skin, respiratory system,	Bluish gray solid BP: 1664.6°F Flammable

References

U.S. Department of Labor. 1990. OSHA Regulated Hazardous Substances, industrial Exposure and Control Technologies Government Institutes, Inc.
Hawley's Condensed Chemical Dictionary, Sax, N. Van Nostrand and Reinhold Company, 11th Edition, 1987.
Proctor, N.H., J.P. Hughes and M.L. Fischman, 1989. Chemical Hazards of the Workplace. Van Nostrand Reinhold. New York.
Sax, N.I. and R.J. Lewis. 1989. Dangerous Properties of Industrial Materials. 7th Edition. Van Nostrand Reinhold. New York.
2017 TLVs® and BEIs®, American Conference of Industrial Hygienists

Abbreviations:

ACGIH – American Conference of Governmental Industrial Hygienists.
BP – boiling point at 1 atmosphere, °F
C – Ceiling, is a concentration that should not be exceeded during and part of the working exposure.
CAS# - Chemical Abstracts Service registry number which is unique for each chemical.
Ft Pt. – Flash point
IDLH - Immediately Dangerous to Life and Health concentrations represent the maximum concentration from which, in the event of respirator failure, one could escape within 30 minutes without a respirator and without experiencing any escape-impairing or irreversible health effects.
LEL – Lower explosive (flammable) limit in air, % by volume (at room temperature)
mg/m^3 – Milligrams of substance per cubic meter of air
NIOSH - National Institute for Occupational Safety and Health.
OSHA – Occupational Safety and Health Administration
PEL - OSHA Permissible Exposure Limit (usually) a time weighted average concentration that must not be exceeded during any 8 hour work shift of a 40 hr work week.
ppm – parts per million
REL – NIOSH Recommended Limit indicated a time weighted average concentration that must not be exceeded during any 10 hour work shift of a 40 hr work week
SG - Specific Gravity
STEL – Short-term exposure limit (ST)
TLV - ACGIH Threshold Limit Values (usually 8 hour time weighted average concentrations).
TWA – 8-hour, time-weighted average
UEL – Upper explosive (flammable) limit in air, % by volume (at room temperature)
VP - Vapor Pressure

FIGURES

1. Site Location Map
2. Hospital Route Map
3. Urgent Care Route Map

QUADRANGLE LOCATION

N

1,000 0 1,000'

Title:

SITE LOCATION MAP

580-610 GERARD AVENUE
BRONX, NY

Prepared for:

SB Gerard Avenue, LLC

ROUX

Compiled by: A.N.	Date: 05/07/20	FIGURE
Prepared by: M.S.R.	Scale: AS SHOWN	1
Project Mgr: A.N.	Project: 3523.0001Y000	
File: 3523.0001Y102.1.mxd		

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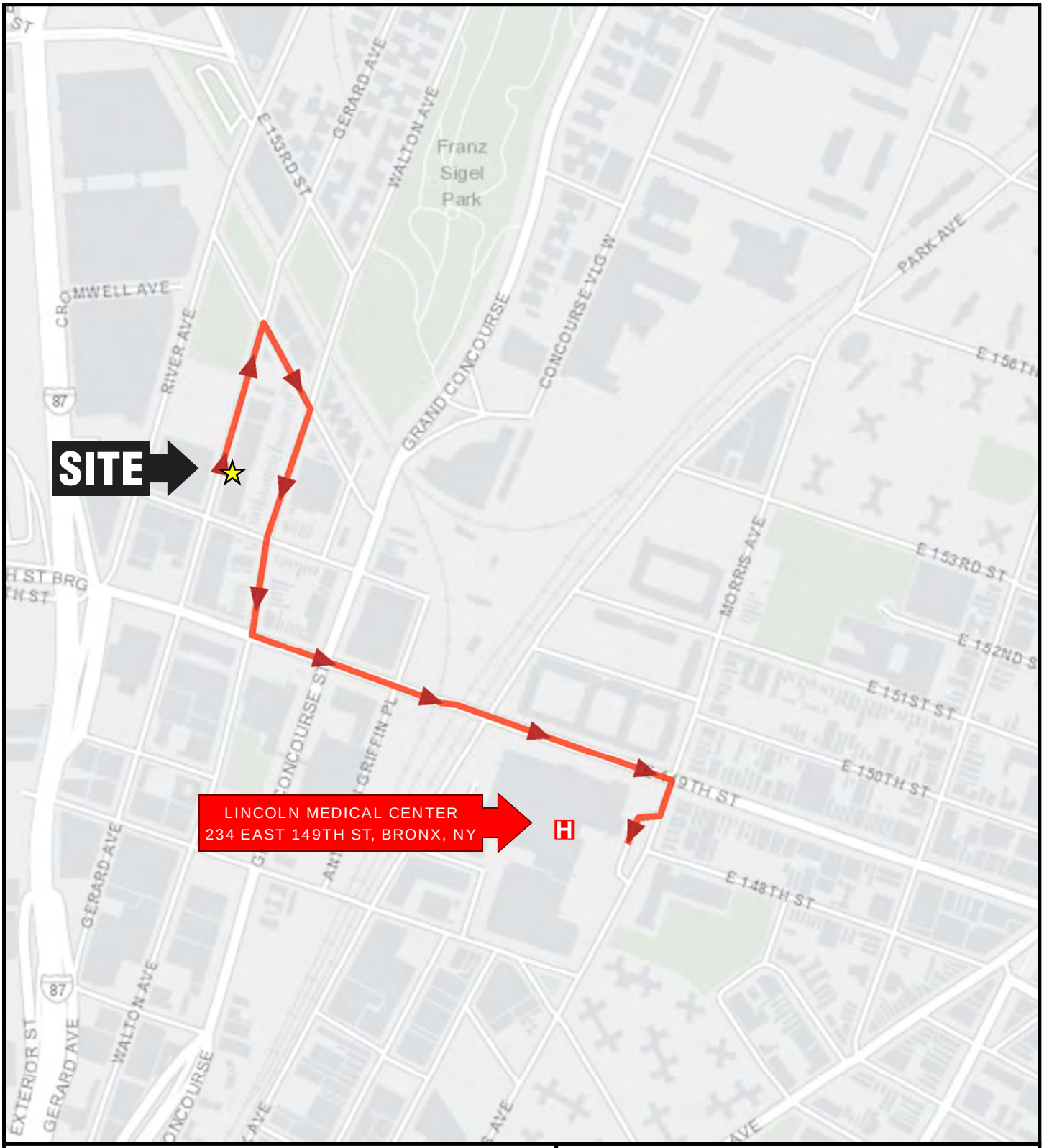

DIRECTIONS TO HOSPITAL

1. HEAD NORTH ON GERARD AVE TOWARD E 151ST ST
2. TURN RIGHT ONTO E 151ST ST
3. TURN RIGHT AT THE 1ST CROSS STREET ONTO WALTON AVE
4. TURN LEFT ONTO E 149TH ST
5. TURN RIGHT ONTO MORRIS AVE & DESTINATION WILL BE ON RIGHT

N

500 0 500'

Title:

HOSPITAL ROUTE MAP

580-610 GERARD AVENUE
BRONX, NY

Prepared for:

SB Gerard Avenue, LLC

ROUX

Compiled by: A.N.	Date: 05/07/20	FIGURE
Prepared by: M.S.R.	Scale: AS SHOWN	2
Project Mgr: A.N.	Project: 3523.0001Y000	
File: 3523.0001Y102.2.mxd		

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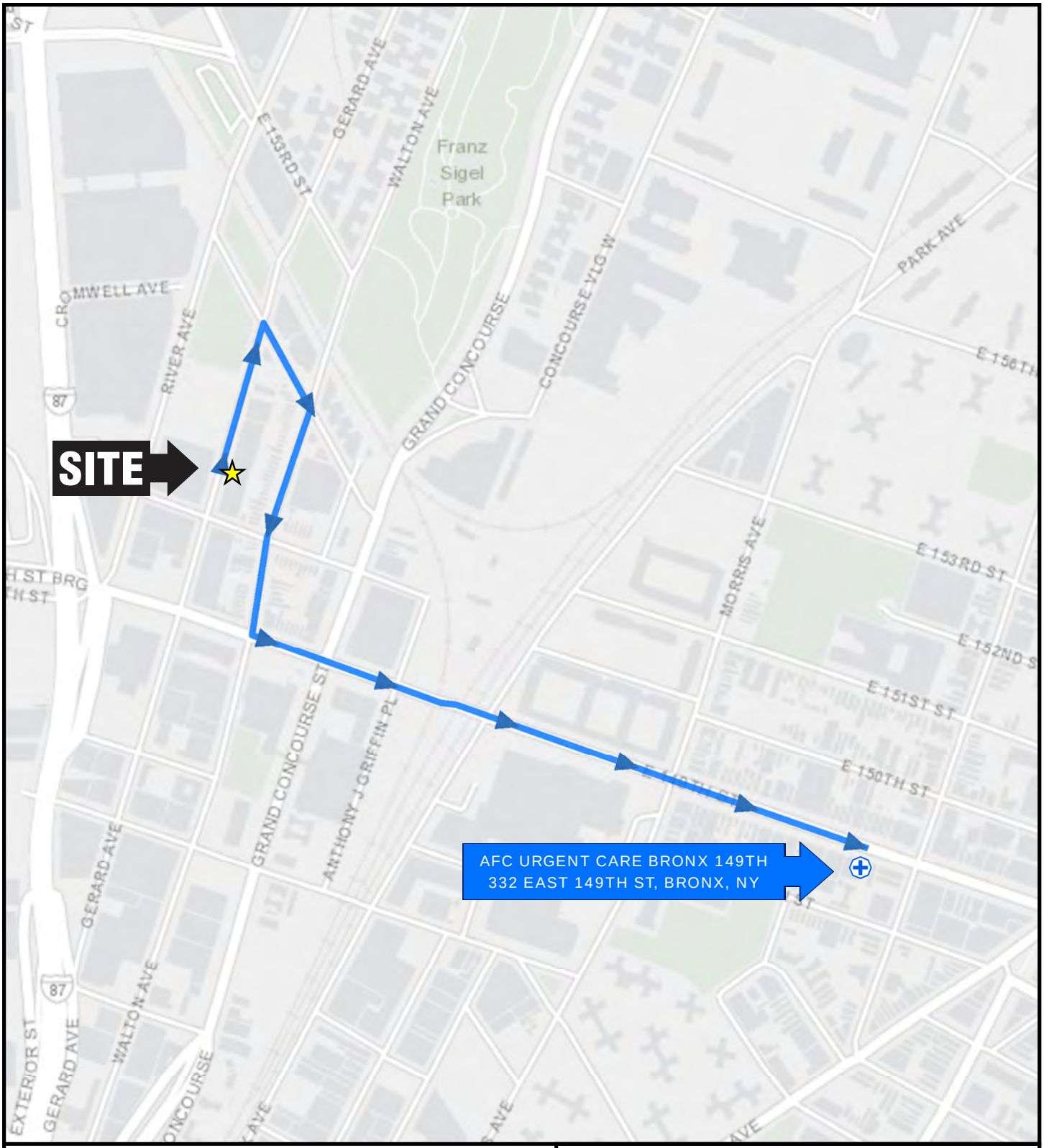

DIRECTIONS TO URGENT CARE

1. HEAD NORTH ON GERARD AVENUE TOWARDS EAST 151ST STREET.
2. TURN RIGHT ONTO EAST 151ST STREET.
3. TURN RIGHT AT THE 1ST CROSS STREET ONTO WALTON AVENUE.
4. TURN LEFT ONTO EAST 149TH STREET AND THE DESTINATION WILL BE AHEAD ON THE RIGHT

N

500 0 500'

Title:

URGENT CARE ROUTE MAP

580-610 GERARD AVENUE
BRONX, NY

Prepared for:

SB Gerard Avenue, LLC

ROUX

Compiled by: A.N.	Date: 05/07/20	FIGURE
Prepared by: M.S.R.	Scale: AS SHOWN	3
Project Mgr: A.N.	Project: 3523.0001Y000	
File: 3523.0001Y102.3.mxd		

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APPENDICES

A. Job Safety Analysis (JSA) Forms

B. SDSs for Chemicals Used

C. Incident Investigation and Reporting Program

D. Heavy Equipment Exclusion Zone Policy

E. Subsurface Utility Clearance Management Program

F. Personal Protective Equipment (PPE) Management Program

G. Generic Community Air Monitoring Plan

H. COVID-19 Interim Health and Safety Guidance

APPENDIX A

Job Safety Analysis (JSA) Forms

JOB SAFETY ANALYSIS	Ctrl. No. CVD-19	DATE: 04/16/2020	☒ NEW ☐ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY	WORK TYPE	WORK ACTIVITY (Description)
Generic	**Fieldwork**	**Working in Areas Affected by Coronavirus**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Kristina DeLuca	Health and Safety Specialist	Brian Hobbs	CHSM

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST	☐ GOGGLES	☐ AIR PURIFYING RESPIRATOR	☒ GLOVES – Leather/cut-resistant in field and nitrile as needed
☒ HARD HAT – In field	☐ FACE SHIELD	☐ SUPPLIED RESPIRATOR	☐ OTHER
☐ LIFELINE / BODY HARNESS	☐ HEARING PROTECTION	☒ PPE CLOTHING – High visibility vest in field	
☒ SAFETY GLASSES – In field	☒ SAFETY SHOES – Steel/composite toe in fie		

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Cloth face covering, nitrile gloves, hand soap, water source, hand sanitizer, disinfectant spray and disinfectant wipes.

Commitment to Safety – All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

SOCIAL DISTANCING: Maintain 6' of distance between yourself and all other people at all times. If you do not believe the scope of work can be conducted while maintaining this distance, contact your Project Manager immediately.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Project Preplanning	N/A	• Review and follow COVID-19 CDC, Roux, Client and local orders/protocols. • Ensure all workers are fit for duty - anyone feeling sick should remain at home even if symptoms do not align with COVID-19. If a worker has been in contact with someone potentially positive or positive for COVID-19, contact your Office Manager. • Determine PPE needs and ensure adequate supply of disinfectant wipes/spray, soap and water or hand sanitizer at Site. Due to high demands and limited supply, plan ahead. • Use the minimum number of employees necessary to safely complete the work.
2. Mobilization	**Exposure:** Becoming infected or infecting co-workers	**Personal/Rental/Roux Owned Vehicle** • Do not carpool. • Use the same vehicle every day and do not share with co-workers. • Verify workers/other people are not approaching vehicle prior to exiting the vehicle. Maintain 6' of distance from others. • DO not valet your car or allow others to use your car. If necessary, don nitrile gloves and safety glasses and clean/disinfect all high touch surfaces (steering wheel, knobs, door handles, turn signals, radio, etc.) by wiping thoroughly with approved disinfectants (follow manufacturer's instructions). This cleaning and disinfection shall occur before and after each use of the vehicle. Aseptically remove gloves and dispose of them along with rags/wipes, appropriately. Wash hands or use hand sanitizer immediately after each episode of cleaning. **Public Transportation** • Public transit should not be used unless absolutely necessary. Consider renting a car rather than taking public transit. If public transit is required, wear appropriate PPE and apply social distancing (6 ft). Use proper donning and doffing procedures for nitrile gloves. Wash hands or use hand sanitizer immediately after. **Hotel Stay (Refer to COVID-19 H&S Guidance for more info)** • If a hotel stay is deemed necessary for the given field work, ensure that you disinfect your room upon initial arrival and returning each day. Disinfect all surfaces of your room with an appropriate disinfectant using nitrile gloves. Use proper donning and doffing procedures for nitrile gloves. • Place the "Do Not Disturb" placard on the room while away and limit housekeeping services to the extent feasible during your stay to minimize the reintroduction and spread of the virus from others. Minimize, or avoid entirely, time spent in hotel common areas (i.e., the lobby, dining areas, gyms, etc.). Wash hands or use hand sanitizer often.

[1] Each Job or Operation consists of a set of tasks / steps. Be sure to list all the steps needed to perform job.
[2] A hazard is a potential danger. Break hazards into six types: Contact - victim is struck by or strikes an object; Caught - victim is caught on, caught in or caught between objects; Fall - victim falls to ground or lower level (includes slips and trips); Exertion - excessive strain or stress / ergonomics / lifting techniques; Exposure - inhalation/skin hazards, energy source; Energy Source – electricity, pressure, compression/tension.
[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

3. Tailgate Meeting	**Exposure:** Becoming infected or infecting co-workers	• Must occur outside or remotely (i.e. video or conference call). • Maintain at least a 6+ ft distance between you and others. • Discuss primary infection prevention measures listed below. • Do not require employees or subcontractors to sign in, the Site Supervisor shall record names on the attendance form. • If the Site has more than 10 workers, separate tailgate meetings should be performed. • Discuss COVID-19 symptoms with coworkers and subcontractors to ensure fitness for duty. Anyone exhibiting signs or symptoms should be instructed to leave the Site, contact your Project Manager.
4. Site Activities	**Exposure:** Becoming infected or infecting co-workers	• Coordinate field activities at the beginning of the day (i.e. Tailgate meeting) to minimize time spent in crowded spaces or overlap while completing job tasks. • Don cloth face coverings as appropriate. • Apply social distancing (6+ ft) when interacting with others. If anyone comes within 6 ft of you while conducting work and your work prevents you from moving away, politely ask them to move back. If others are unable to move from your space, stop work and leave area. • Do not shake hands or touch others. • Do not share equipment or other items with co-workers and subcontractors unless wearing appropriate PPE (e.g. nitrile gloves). Assume equipment and other surfaces are potentially contaminated and remove gloves aseptically (See Appendix A of Roux Interim H&S Guidance for proper glove removal). • If anyone is coughing or sneezing in your vicinity, stop work and leave the area. • Do not work in areas with limited ventilation with others. • Cover your mouth and nose with tissue or paper towel or with your elbow when coughing or sneezing and wash hands or use hand sanitizer immediately after. If sick contact SHSO/PM and leave Site immediately. • Disinfect work surfaces/areas with approved disinfectant you're responsible for (ex: desk, office doorknob, computer, etc.) at least once at the beginning of your shift and at least once at the end of your shift with either sanitizing wipes or disinfectant spray. • Phones should be operated hands free to extent feasible. Sanitize your phone on a regular basis. Disinfection should also take place whenever suspected contaminated material comes in contact with any work surfaces/areas. Wash hands or use hand sanitizer immediately after. • Avoid public spaces and going out to eat by bringing your own lunch to the Site. If performing work in high density urban areas, it is recommended all food must be consumed at or in your vehicle. Wash hands or use hand sanitizer before eating and immediately after.

Primary Infection Prevention Measures

- Wash your hands often with soap and water for at least 20 seconds.
  - If soap and water are not available, use an alcohol-based sanitizer that contains at least 60% ethanol or 70% isopropanol. Key times to wash hands include after blowing your nose, coughing or sneezing, after using the restroom, and before eating or preparing food.
- Do not touch your eyes, face, nose and mouth with unwashed hands.
- Cover your mouth and nose with a tissue when you cough or sneeze or use the inside of your elbow. Throw potentially contaminated items (e.g. used tissues) in the trash.
- Avoid close contact/secondary contact with people and potentially contaminated surfaces.
  - Apply appropriate social distance (6+ feet).
  - Stop handshaking/touching others and use caution when accessing public spaces.
- Clean and disinfect frequently touched surfaces daily. Commonly touched items can include but are not limited to tables, doorknobs, light switches, countertops, handles, desks, phones, keyboard, toilets, sinks and field equipment. If surfaces are dirty, they should be cleaned with soap and water prior to disinfection. If surface cannot be cleaned/disinfected, then wash hands or use sanitizer as soon as possible.

[1] Each Job or Operation consists of a set of tasks / steps. Be sure to list all the steps needed to perform job.
[2] A hazard is a potential danger. Break hazards into six types: Contact - victim is struck by or strikes an object;
Caught - victim is caught on, caught in or caught between objects; Fall - victim falls to ground or lower level (includes slips and trips); Exertion - excessive strain or stress / ergonomics / lifting techniques; Exposure - inhalation/skin hazards; Energy source – electricity, pressure, compression/tension.
[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

JOB SAFETY ANALYSIS	**Cntrl. No.**	DATE:	☒ NEW ☐ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY **GENERIC**	WORK TYPE	WORK ACTIVITY (Description)	
DEVELOPMENT TEAM	**POSITION / TITLE**	**REVIEWED BY:**	**POSITION / TITLE**

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST	☐ GOGGLES	☐ AIR PURIFYING RESPIRATOR	☐ GLOVES:
☐ HARD HAT	☐ FACE SHIELD	☐ SUPPLIED RESPIRATOR	☐ OTHER
☐ LIFELINE / BODY HARNESS	☐ HEARING PROTECTION	☐ PPE CLOTHING:	
☐ SAFETY GLASSES	☐ SAFETY SHOES		

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Required Equipment:

Commitment to LPS – All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

EXCLUSION ZONE: A _ foot exclusion zone will be maintained around (indicate equipment).

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. [INSERT JOB STEP]	**1a. CONTACT:** [INSERT HAZARD]	1a.
	1b. CAUGHT: [INSERT HAZARD]	1b.
	1c. FALL: [INSERT HAZARD]	1c.
	1d. EXPOSURE: [INSERT HAZARD]	1d.
	1e. EXERTION: [INSERT HAZARD]	1e.
	1f. ENERGY SOURCE: [INSERT HAZARD]	1f.
2. [INSERT JOB STEP]	**2a. CONTACT:** [INSERT HAZARD]	2a.
	2b. CAUGHT: [INSERT HAZARD]	2b.

[1] Each Job or Operation consists of a set of tasks / steps. Be sure to list all the steps needed to perform job.

[2] A hazard is a potential danger. Break hazards into five types: Contact - victim is struck by or strikes an object; Caught - victim is caught on, caught in or caught between objects; Fall - victim falls to ground or lower level (includes slips and trips); Exertion - excessive strain or stress / ergonomics / lifting techniques; Exposure - inhalation/skin hazards.

[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift." Avoid general statements such as, "be careful."

	2c. FALL: [INSERT HAZARD]	2c.
	2d. EXPOSURE: [INSERT HAZARD]	2d.
	2e. EXERTION: [INSERT HAZARD]	2e.
	2f. ENERGY SOURCE: [INSERT HAZARD]	2f.

[1] Each Job or Operation consists of a set of tasks / steps. Be sure to list all the steps needed to perform job.

[2] A hazard is a potential danger. Break hazards into five types: Contact - victim is struck by or strikes an object; Caught - victim is caught on, caught in or caught between objects; Fall - victim falls to ground or lower level (includes slips and trips); Exertion - excessive strain or stress / ergonomics / lifting techniques; Exposure - inhalation/skin hazards.

[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

JOB SAFETY ANALYSIS	Ctrl. No. GEN-006	DATE 7/10/2020	☐ NEW ☒ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY:	WORK TYPE:	WORK ACTIVITY (Description):
Generic	**Drilling**	**Direct Push Soil Borings / Well Installation**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Timothy Zei	Project Hydrogeologist	Raymond Olson	Office Health & Safety Manager
		Brian Hobbs	Corporate Health & Safety Manager

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST ☒ HARD HAT ☐ LIFELINE / BODY HARNESS ☒ SAFETY GLASSES	☐ GOGGLES ☐ FACE SHIELD ☒ HEARING PROTECTION: (as needed) ☒ SAFETY SHOES: Composite-toe or steel toe boots	☐ AIR PURIFYING RESPIRATOR ☐ SUPPLIED RESPIRATOR ☒ PPE CLOTHING: Fluorescent reflective vest or high visibility clothing, Long Sleeve Shirt	☒ GLOVES: Leather, Nitrile and cut resistant ☒ OTHER: Insect Repellant, sunscreen (as needed)

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Geoprobe or Truck-Mounted Direct Push Drill Rig, Hand Tools, Photoionization Detector, Multi-Gas Meter (or equivalent), Macrocore liners, Liner Opening Tool, 20 lb. Type ABC Fire Extinguisher, 42" Cones & Flags, "Work Area" Signs, Water

COMMITMENT TO SAFETY- All personnel onsite will actively participate in hazard recognition and mitigation throughout the day by verbalizing SPSAs

EXCLUSION ZONE (EZ): Maintain Minimum Heavy Equipment Exclusion Zone around equipment and loads while it is in motion. The HEEZ must be greater than the swing zone of any moving part of the equipment, tip zone of the equipment, fall zone of the equipment and contents, distance that debris may travel during demolition activities and/or foot print of a structure to be demolished.

"SHOW ME YOUR HANDS"

Driller and helper should show that hands are clear from controls and moving parts

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Mobilization of drilling rig (ensure the Subsurface Clearance Protocol and Drill Rig Checklist are completed)	**1a. CONTACT:** Equipment/property damage.	1a. The drill rig's tower/derrick will be lowered and secured prior to mobilization. 1a. A spotter should be utilized while moving the drill rig. If personnel move into the path of the drill rig, the drill rig will be stopped until the path is again clear. Use a spotter for all required backing operations. 1a. Set-up the work area and position equipment in a manner that eliminates or reduces the need for backing of support trucks and trailers. 1a. When backing up truck rig with an attached trailer use a second spotter if there is tight clearance simultaneously on multiple sides of the equipment or if turning angles limit driver visibility. 1a. Inspect the driving path for uneven terrain. Level or avoid if needed. 1a. Drill rig should have a minimum **exclusion zone which encompasses its tip radius** for non-essential personnel (i.e., driller helper, geologist) when the rig is moving/ in operation.
	1b. FALL: Slip/trip/fall hazards.	1b. Inspect walking path for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions prior to mobilizing equipment. 1b. Do not climb over stored materials/equipment; walk around. Practice good housekeeping. 1b. Use established pathways and walk on stable, secure ground.
	1c. CONTACT: Crushing from roll-over.	1c Geoprobe should cross all hills/obstructions head on with the mast down to reduce risk of roll-over.
2. Raising tower/derrick of drill rig	**2a. CONTACT:** Overhead hazards.	2a. Prior to raising the tower/derrick, the area above the drilling rig will be inspected for wires, tree limbs, piping, or other structures, that could come in contact with the rig's tower and/or drilling rods or tools. 2a. Maintain a safe distance of 10' from overhead structures.
	2b. CONTACT: Pinch Points/Amputation Points when raising the rig and instability of rig	2b. Inspect the equipment prior to use and avoid pinch/amputation points. 2b. Lower outriggers to ensure stability prior to raising rig tower/derrick. 2b. If the rig needs to be mounted, be sure to use three points of contact.
3. Advancement of drilling equipment and well installation	**3a. CONTACT:** Flying debris	3a. Be aware of and avoid potential lines of fire and wear required PPE such as eye, ear, and hand protection.
	3b. EXPOSURE: Noise and dust.	3b. Wet borehole area with sprayer to minimize dust. 3b. Stand upwind and keep body away from rig. 3b. Dust mask should be worn if conditions warrant. 3b. Wear hearing protection when the drill rig is in operation.

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[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
3. Advancement of drilling equipment and well installation (Continued)	**3a. CONTACT:** Flying debris **3b. EXPOSURE:** Noise and dust. **3c. FALL:** Slip/trip/fall hazards. **3d. CAUGHT:** Limb/extremity pinching; abrasion/crushing. **3e. CONTACT:** Equipment imbalance during advancement of drill equipment. **3f. EXPOSURE:** Inhalation of contamination/vapors. **3g. EXERTION:** Potential for muscle strain/injury while lifting and installing well casings, lifting sand bags, and/or lifting rods.	3c. Contain drill cuttings and drilling water to prevent fall hazards from developing in work area. 3c. See 1b. 3d. Ensure all Emergency Safety Stop buttons function properly. 3d. Always wear leather gloves when making connections and using hand tools; wear cut-resistant (i.e., Kevlar) gloves when handling cutting tools. 3d. Inspect the equipment prior to use for potential pinch/amputation points. Keep hands away from pinch/amputation points and use of tools is preferable compared to fingers and hands. 3d. Inspect drill head for worn surface or missing teeth; replace if damaged or blunt. 3d. Ensure all jewelry is removed, loose clothing is secured, and PPE is secured close to the body. 3d. All non-essential personnel should stay away from the immediate work area; position body out of the line-of-fire of equipment. 3d. Drillers and helpers will understand and use the "Show Me Your Hands" Policy. 3d. Spinning rods/casing have an **exclusion zone of tip radius** while in operation. 3e. Drillers will advance the borehole with caution to avoid causing the rig to become imbalanced and/or tip. 3e. The blocking and leveling devices used to secure the rig will be inspected by drillers and Roux personnel regularly to see if shifting has occurred. 3e. In addition, personnel and equipment that are non-essential to the advancement of the borehole will be positioned away from the rig at a distance that is at least as far as the boom is high (**minimum exclusion zone**). 3f. Monitor ambient air for dangerous conditions using a calibrated photoionization detector (PID) to periodically monitor the breathing zone of the work area. 3f. If a reading of >5ppm is recorded, the Roux field personnel must temporarily cease work, instruct all Site personnel to step away from the area of elevated readings and inform the Roux PM of the condition. The Roux PM will then recommend additional precautions in accordance with the site specific health and safety plan. 3f. Use a multi-gas meter to monitor ambient air for dangerous conditions (i.e. unsafe levels of carbon monoxide when drilling indoors or the presence of explosive vapors). 3g. Keep back straight and bend at the knees. 3g. Utilize team lifting for objects over 50lbs. 3g. Use mechanical lifting device for odd shaped objects.
4. Remove sample liner.	**4a. EXERTION:** Potential for muscle strain/injury while removing liner from probe rod. **4b. CONTACT:** Pinch points and cuts **4c. EXPOSURE:** Inhalation and/or dermal contact with contaminants.	4a Utilize team lifting for objects over 50lbs. 4a. Use hydraulic liner extruder if available. 4b. Place liner on sturdy surface when opening. 4b. Don cut-resistant gloves and use appropriate liner cutter when opening liners. 4b. Always cut away from the body. 4c. Wear chemical-resistant disposable gloves when handling liners. 4c. See 3e.
5. Decontaminate equipment.	**5a. EXPOSURE/CONTACT**: To contamination (e.g., Separate Phase Hydrocarbons (SPH), contaminated groundwater, vapors). **5b. EXPOSURE:** To chemicals in cleaning solution including ammonia.	5a. Wear chemical-resistant disposable gloves and safety glasses. 5a. Contain decontamination water so that it does not spill. 5a. Use an absorbent pad to clean spills, if necessary. 5a. Spray equipment from side angle, not straight on, to avoid backsplash. 5a. See 3b. 5b. See 4a. Review SDS to ensure appropriate precautions are taken and understood.

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Caught - victim is caught on, caught in or caught between objects; Fall - victim falls to ground or lower level (includes slips and trips); Exertion - excessive strain or stress / ergonomics / lifting techniques; Exposure - inhalation/skin hazards; Energy Source – electricity, pressure, compression/tension.
[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

JOB SAFETY ANALYSIS	Ctrl. No. GEN-009	DATE: 7/10/2020	☐ NEW ☒ REVISED	PAGE 1 of 1

JSA TYPE CATEGORY	WORK TYPE	WORK ACTIVITY (Description)
Generic	**O&M**	**Movement of 55-Gallon Drums/Drum Handling with Mobile Carrier**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Michael Sarni	Technician	Brian Hobbs	Corporate Health & Safety Manager

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST	☐ GOGGLES	☐ AIR PURIFYING RESPIRATOR	☒ GLOVES: Cut-resistant gloves
☒ HARD HAT	☐ FACE SHIELD	☐ SUPPLIED RESPIRATOR	☐ OTHER:
☐ LIFELINE / BODY HARNESS	☐ HEARING PROTECTION	☒ PPE CLOTHING: Fluorescent long sleeve shirt or long sleeve shirt and reflective safety vest.	
☒ SAFETY GLASSES	☒ SAFETY SHOES: Steel or composite toe		

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Mobile Drum Carrier, safety cones, and caution tape

COMMITMENT TO SAFETY- All personnel onsite will actively participate in hazard recognition and mitigation throughout the day by verbalizing SPSAs

EXCLUSION ZONE (EZ): Maintain Minimum Heavy Equipment Exclusion Zone around equipment (i.e. forklift) and loads while it is in motion. The HEEZ must be greater than the swing zone of any moving part of the equipment, tip zone of the equipment, fall zone of the equipment and contents, distance that debris may travel during demolition activities and/or foot print of a structure to be demolished.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Preparing for and Inspection of Drum	**1a. FALL:** Tripping/falling due to uneven surface. Loose debris/garbage in work area.	1a. Clear area of loose garbage and debris. Inspect 55-gal drums for proper condition, labeling, check drum ring and bolts for tightness, inspect mobile drum carrier. 1a. Do a Test Lift to get a general sense of the weight of the drum. 1a. Inspect and use established pathways to avoid uneven terrain, weather-related hazards (i.e., debris, puddles, ice, etc.), and other obstructions. 1a. Secure work area and coordinate and communicate the planned work activities with other personnel working in the area. 1a. Delineate work area with 42" safety cones.
	1b. CONTACT/EXPOSURE: Drums could potentially be damaged or contain hazardous material. Mobile drum carrier could potentially be in poor working condition causing malfunctioning during operation.	1b. Prior to inspecting drums don cut-resistant gloves. If drum is not properly labeled, do not open and cease all drum transport activities. Immediately contact project manager and inform him/her of drum situation. 1b. Do not continue drum transport activities until further actions are determined by the project manager. 1b. If the drum is properly labeled, but leaking, improperly sealed or in poor condition, place drum in an over-pack drum. 1b. Inspect mobile drum carrier to ensure its overall integrity. Look for rust marks or potential weak points where the drum carrier could malfunction. Inspect the wheels to ensure that they easily turn and nothing is impeding their movement.
	1c. EXERTION/CAUGHT: Potential pinching/exertion hazards while securing ring/ tightening bolts	1c. Keep back straight and knees slightly bent while securing drum ring/tightening bolt. Wear cut-resistant gloves.

[1] Each Job or Operation consists of a set of tasks / steps. Be sure to list all the steps needed to perform job.
[2] A hazard is a potential danger. Break hazards into six types: Contact - victim is struck by or strikes an object; Caught - victim is caught on, caught in or caught between objects; Fall - victim falls to ground or lower level (includes slips and trips); Exertion - excessive strain or stress / ergonomics / lifting techniques; Exposure - inhalation/skin hazards; Energy source – electricity, pressure, compression/tension.
[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift." Avoid general statements such as, "be careful."

2. Position drum clamp tightly in between drum ribs, securing drum clamp to drum with chain	**2a. CAUGHT:** Pinching fingers between drum clamp and handle/chain.	2a. Attach drum clamp with chain and tighten until snug. Do not place hands between drum clamp and drum as the chain is tightened; wear cut resistant gloves. Keep face away from drum when handling in case of escaping vapors.
Assess **[1]JOB STEPS**	**Analyze** **[2]POTENTIAL HAZARDS**	**Act** **[3]CRITICAL ACTIONS**
3. Disengage safety latches on handle, pull handle down until drum is lifted off ground and safety latches are reengaged; slightly suspending drum off the ground	**3a. EXERTION/ CONTACT:** Potential muscle strain associated with lifting/engaging drum/handle. Drum could shift/slip downward and crush toes. **3b. CAUGHT:** Fingers could be pinched while engaging/disengaging safety latches on handle	3a. Ascertain whether the drum is overweight; if it is, then two people are needed to lower handle while drum is secured with clamp so that safety latches can be engaged. Keep body out of the line of fire of the handle (do not position head above handle) as it is being pushed down. Do not allow feet/toes to be positioned under the drum as it is being lifted; wear steel/composite toe boots. 3b. Wear cut-resistant gloves while disengaging/reengaging safety latches. 3b. Avoid placing hands in pinch points.
4. Transport drums to designated location and disengage drum clamp (repeat Step 3 in reverse order)	**4a. FALL:** Tripping/ falling due to obstructions and uneven terrain. Potential for drum to fall during transport.	4a. Ensure transport path is free of potential obstructions that may cause the drum/carrier to become unstable. Position drum clamp between the ribs on the drum to prevent possible slipping.

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[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift." Avoid general statements such as, "be careful."

JOB SAFETY ANALYSIS	**Ctrl. No. GEN-013**	DATE 7/10/2020	☐ NEW ☒ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY	WORK TYPE:	WORK ACTIVITY (Description):
Generic	**Gauging and Sampling**	**Gauging and Sampling**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Brandon Tufano	Staff Geologist	Brian Hobbs	Corporate Health & Safety Manager

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☒ LIFE VEST	☐ GOGGLES	☐ AIR PURIFYING RESPIRATOR	☒ GLOVES: Leather, Nitrile and cut resistant
☒ HARD HAT	☐ FACE SHIELD	☐ SUPPLIED RESPIRATOR	☒ OTHER: Knee pads, Insect Repellant, sunscreen (as needed)
☐ LIFELINE / BODY HARNESS	☐ HEARING PROTECTION	☒ PPE CLOTHING: Fluorescent reflective vest or high visibility clothing	
☒ SAFETY GLASSES	☒ SAFETY SHOES: Composite-toe or steel toe boots		

REQUIRED AND / OR RECOMMENDED EQUIPMENT

42-inch Safety Cones, Caution Tape, Interface Probe and/or Water Level Meter, 20-lb., Type ABC Fire Extinguisher, Buckets. Tools as needed: Socket Wrench, Screw Driver, Crow Bar, Mallet, and Wire Brush.

COMMITMENT TO SAFETY- All personnel onsite will actively participate in hazard recognition and mitigation throughout the day by verbalizing SPSAs

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Mobilization to monitoring well(s).	**1a. FALL:** Personal injury from slip/trip/fall due to uneven terrain and/or obstructions.	1a. Inspect pathway and plan for most suitable designated pathway prior to mobilization. 1a. Use established pathways, walk and/or drive on stable, secure ground and avoid steep hills or uneven terrain. 1a. If working near open water with an unguarded edge, wear life vest.
	1b. CONTACT: With traffic/third parties.	1b. Identify potential traffic sources and delineate work area with 42-inch traffic safety cones. Position vehicle to protect against oncoming traffic. Use caution tape to provide a more visible delineation of the work area if necessary. 1b. Wear appropriate PPE including high visibility clothing or reflective vest. 1b. Face traffic, maintain eye contact with oncoming vehicles, and establish a safe exit route.
	1c. EXERTION: Muscle strain from lifting equipment	1c. Use proper lifting techniques when handling/moving equipment; bend knees and keep back straight. 4c. Use mechanical assistance or team lifting techniques when equipment is 50 lbs. or heavier. 4c. Make multiple trips to carry equipment.
	1d. EXPOSURE: To biological hazards.	1d. Inspect work area for bees and insects. 1d. Use insect/tick repellent as necessary.
2. Open/close well.	**2a. EXERTION:** Muscle strain.	2a. Use proper lifting techniques; keep back straight, lift with legs and bend knees when reaching to open/close well.
	2b. CAUGHT: Pinch/crush points associated with removing/replacing manholes and working with hand tools.	2b. Wear leather gloves or cut resistant gloves when working with well cover and hand tools. 2b. Use proper tools (ratchet and pry bar for well cover) and inspect before use. 2b. Do not put fingers under well cover.
	2c. CAUGHT: Pinch points associated with placing J-plug back onto PVC pipe.	2c. See 2b. 2c. Keep fingers out of line-of-fire when securing cap.
	2d. EXPOSURE: To potential hazardous vapors.	2d. No open flames/heat sources. 2d. To minimize exposure to vapors, allow well to vent after opening it and before sampling activities begin. 2d. Stand up-wind, if possible, to avoid inhaling vapors.
3. Gauge well.	**3a. CONTACT:** With contamination (e.g. contaminated groundwater).	3a. Wear chemical-resistant disposable gloves (over cut-resistant gloves) and safety glasses when gauging well. 3a. Insert and remove probe slowly to avoid splashing. 3a. Use an absorbent pad to clean probe.
	3b. CONTACT: With traffic.	3b. See 1b.

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Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
4. Purge and sample well	**4a. EXPOSURE/CONTACT:** To contamination (e.g., SPH, contaminated groundwater, vapors) and/or sample preservatives.	4a. Open and fill sample jars slowly to avoid splashing and contact with preservatives. 4a. Wear cut-resistant gloves and chemical-resistant disposable gloves when sampling. 4a. Fill sample containers over purge container to avoid spilling water onto the ground. 4a. Use an absorbent pad to clean spills. 4a. When using a bailer to purge a well, pull the bailer slowly from the well to avoid splash hazards. 4a. When sampling or purging the water using a bailer, pour out water slowly to reduce the potential for splash hazards with groundwater. 4a. When using a tubing valve always remove the valve slowly after sample collection to release any pressure and avoid pressurized splash hazards. 4a. When collecting a groundwater sample always point sampling apparatus (tubing, bailer, etc.) away from face and body.
	4b. CONTACT: Personal injury from cuts, abrasions, or punctures by glassware or sharp objects.	4b. To avoid spills or breakage, place sample ware on even surface. 4b. Do not over tighten caps on glass sample ware. 4b. Wear chemical-resistant nitrile disposable gloves over cut-resistant (i.e., Kevlar) gloves when sampling and handling glassware (i.e., VOA vials) or when using cutting tools.
	4c. EXERTION: Muscle strain while carrying equipment.	4c. Use proper lifting techniques when handling/moving equipment, bend knees and keep back straight. 4c. Use mechanical assistance or team lifting techniques when equipment is 50 lbs. or heavier. 4c. Make multiple trips to carry equipment.
	4d. CONTACT: With traffic.	4d. See 1b.
	4e. CONTACT: Pinch points with groundwater pump components (i.e., wheel, line, clamps).	4e. Wear leather gloves when working with groundwater pumps. 4e. Never place hands on or near pinch points such as the wheel, clamps or other moving parts during pump operations. 4e. Use the correct mechanisms, such as a pump reel, to lower pump into well. 4e. Never attempt to manually stop any moving part of equipment including hose reels and/or tubing.
	4f. EXERTION: Muscle strain from repetitive motion of bailing and sampling a well.	4f. See 4c. 4f. Include a stretch break when repetitive motions are part of the task.
5. Management of purge water.	**5a. EXPOSURE/CONTACT:** To contamination (e.g., SPH, contaminated groundwater, vapors).	5a. Do not overfill container and pour liquids slowly so that they do not splash. 5a. Properly dispose of used materials/PPE in appropriate container in designated storage area.
	5b. EXERTION: Muscle strain from lifting/carrying and moving containers.	5b. Use proper lifting techniques when lifting / carrying or moving container(s) (see 4c.). 5b. Do not overfill container(s).
6. Decontaminate equipment.	**6a. EXPOSURE/CONTACT:** To contamination (e.g., SPH, contaminated groundwater, vapors).	6a. Work on the upwind side, where possible, of decon area. 6a. Wear chemical-resistant disposable gloves and safety glasses. 6a. Use an absorbent pad to clean spills.
	6b. CAUGHT: Pinch points associated with handling hand tools	6b. See 2b. 6b. Inspect hand tools for sharp edges before decontaminating.

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JOB SAFETY ANALYSIS	Ctrl. No. GEN-014	DATE: 7/10/2020	☐ NEW ☒ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY:	WORK TYPE:	WORK ACTIVITY (Description):
Generic	**Drilling**	**Hollow Stem Auger Soil Borings / Well Installation**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Douglas Ferraiolo	Staff Geologist	Brian Hobbs	Corporate Health & Safety Manager

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST ☒ HARD HAT ☐ LIFELINE / BODY HARNESS ☒ SAFETY GLASSES	☒ GOGGLES: Spoggles required if winds exceed 15 mph. ☐ FACE SHIELD ☒ HEARING PROTECTION: (as needed). ☒ SAFETY SHOES: Steel or Composite Toe.	☐ AIR PURIFYING RESPIRATOR ☐ SUPPLIED RESPIRATOR ☒ PPE CLOTHING: Fluorescent long-sleeve shirt or long-sleeve shirt and reflective safety vest.	☒ GLOVES: Leather, Cut-Resistant, and Nitrile. ☒ OTHER: Insect Repellant, Sunscreen (as needed).

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Truck-Mounted Drilling Rig or Track Rig, Saw, Hand Tools, Photoionization Detector, Multi-Gas Meter (or equivalent), Interface Probe, 20 lb. Type ABC Fire Extinguisher, 42" Cones & Flags, "Work Area" Signs.

COMMITMENT TO SAFETY- All personnel onsite will actively participate in hazard recognition and mitigation throughout the day by verbalizing SPSAs

EXCLUSION ZONE (EZ): Maintain Minimum Heavy Equipment Exclusion Zone around equipment and loads while it is in motion. The HEEZ must be greater than the swing zone of any moving part of the equipment, tip zone of the equipment, fall zone of the equipment and contents, distance that debris may travel during demolition activities and/or foot print of a structure to be demolished.

"SHOW ME YOUR HANDS"

Driller and helper should show that hands are clear from controls and moving parts

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Mobilization / demobilization and establish a work area.	**1a. See Mobilization/ Demobilization JSA GEN-015.**	1a. See Mobilization / Demobilization JSA GEN-015.
2. Raising tower / derrick of drilling rig.	**2a. CONTACT:** Overhead hazards. **2b. CONTACT:** Amputation / crush points when raising the rig and instability of rig.	2a. Prior to raising the tower / derrick, the area above the drilling rig will be inspected for overhead hazards (wires, tree limbs, piping or other structures) that may be contacted by the rig's tower or drilling rods. 2a. The tower / derrick must not be raised beneath overhead power lines unless approved by the Roux PM. 2a. Maintain a minimum of 10' from all overhead structures. 2a. Do not move the rig while the tower / derrick is raised. 2b. Inspect the equipment prior to use and avoid any potential amputation points. 2b. Lower outriggers to ensure stability prior to raising rig tower derrick. Keep feet and body out of the line of fire when lowering out-riggers. 2b. Inspect the set-up location for uneven terrain. Level or avoid area if needed. 2b. If the rig needs to be mounted, be sure to use three points of contact.
3. Advancement of augers for soil boring installation.	**3a. CONTACT:** Equipment imbalance during advancement of drill equipment. **3b. CONTACT:** Flying / spraying debris. **3c. CAUGHT:** Limb/extremity amputation, abrasion, and crushing.	3a. Drillers will advance the borehole with caution to avoid causing the rig to become imbalanced and / or tip. 3a. The blocking and leveling devices used to secure the rig will be inspected by drillers and Roux personnel regularly to see if shifting has occurred. **3a. Drillers will maintain the "Purple Zone" policy surrounding augers to ensure no personnel come into contact with augers while in use. Workers will spray paint a 3' semi-circle surrounding the augers to visually show that no personnel should enter the "Purple Zone" while drilling activities are being conducted.** 3a. In addition, personnel and equipment that are non-essential to the advancement of the borehole will be positioned away from the rig at a distance that is at least as far as the boom is high (minimum exclusion zone of 20 feet). 3b. Wear all required PPE (especially hand, eye, and ear protection). 3b. Maintain minimum EZ distance (i.e. swing/tip radius of rig) when rig is in operation to avoid potential line of fire hazards from flying materials or debris. 3c. Inspect the equipment prior to use for potential pinch points. 3c. Test all emergency shutdown devices prior to drilling. 3c. Inspect drill head for worn surface or missing teeth; replace if damaged or blunt. 3c. Inspect augers, do not use if auger flight is damaged or bent.

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Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
3. Advancement of augers for soil boring installation (Continued).		3c. Ensure all jewelry is removed, loose clothing is secured, and PPE is secured close to the body. 3c. All non-essential personnel should stay away from the immediate work area; position body out of the line-of-fire of equipment particularly when installing auger flights and steel override casings. 3c. Drillers and helpers will understand and use the "Show Me Your Hands" Policy. 3c. Spinning augers should have an exclusion zone of 20 feet when in operation.
	3d. FALL: Slip/trip/fall hazards.	3d. Inspect walking path for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions prior to mobilizing equipment. 3d. Do not climb over stored materials/equipment; walk around. Practice good housekeeping. 3d. Use established pathways and walk on stable, secure ground. 3d. Use three points of contact when mounting or dismounting the rig. 3d. Remove soil cuttings to avoid a tripping hazard from developing near augers.
	3e. EXPOSURE: Inhalation of contamination / vapors.	3e. Air monitoring using a calibrated photoionization detector (PID) to periodically monitor the breathing zone of the work area. 3e. The Action Level for breathing zone air is five parts per million (sustained) as detected by the PID. 3e. If a reading of >5ppm is recorded, the Roux field personnel must temporarily cease work, instruct all Site personnel to step away from the area of elevated readings and inform the Roux PM of the condition. The Roux PM will then recommend additional appropriate precautions in accordance with the site specific health and safety plan.
	3f. EXPOSURE: Noise and dust.	3f. Wet borehole area with sprayer to minimize dust. Stand upwind and keep body positioned away from rig. 3f. Wear hearing protection while drill rig is operating and / or the noise levels exceed 85 dBA.
	3g. EXERTION: Installing well casings and lifting augers.	3g. Keep back straight and bend at the knees. 3g. Utilize team lifting for objects over 50lbs. 3g. Use mechanical lifting device for odd shaped objects.
4. Installation of well materials.	**4a. CONTACT:** Installing well materials while also pulling up augers. **4b. CAUGHT:** Possible pinch or crush hazard assembling PVC and sending down the borehole. **4c. FALL:** Slip/trip/fall hazards with hand tools and materials. **4d. EXPOSURE:** Potential contamination, harmful vapors, dust, and / or noise. **4e. EXERTION:** Lifting heavy bags of materials to backfill borehole.	4a. Potential contact with augers during installation of well materials. 4a. Keep distance from augers and do not place any materials while augers are in motion. 4b. Keep all body parts out of potential pinch points while placing PVC together and sending down borehole. 4c. See 3d. 4d. See 3e and 3f. 4d. Stand upwind to avoid exposure to dust generated from packing materials. 4e. Ergonomic hazard lifting bags of sand and bentonite while packing the well.
5. Cleaning the auger flights	**5a. CONTACT:** Cuts/scrapes or puncture wound from contacting auger.	5a. Follow "Show Me Your Hands" Procedure and make sure auger is out of gear before contacting auger with tool or hand. 5a. Pull cleaning tool across your body with handle away from body; do not push toward the auger. 5a. Do not clean more than ¾ turn around the auger at a time. 5a. Wear cut resistant and leather gloves. 5a. Always use two hands to operate cleaning tool. 5a. Inspect tool before use and remove from service if handle or metal are cracked/fatigued. 5a. Stand out of the line of fire.
6. Decontaminate equipment.	**6a. EXPOSURE / CONTACT:** To contamination (e.g., contaminated groundwater, vapors). **6b. EXPOSURE**: To chemicals in cleaning solution (including ammonia).	6a. Wear chemical-resistant disposable gloves and safety glasses. 6a. Contain decontamination water so that it does not spill. 6a. Use an absorbent pad to clean spills, if necessary. 6b. See 3e. Wear all appropriate PPE and stand upwind of any exposed cleaning solutions.

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JOB SAFETY ANALYSIS	Ctrl. No. GEN-015	DATE: 7/10/2020	☐ NEW ☒ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY	WORK TYPE	WORK ACTIVITY (Description)	
GENERIC	**Site Recon**	**Mobilization/Demobilization**	
DEVELOPMENT TEAM	**POSITION / TITLE**	**REVIEWED BY:**	**POSITION / TITLE**
Rebecca Lowy	Staff Assistant Geologist	Brian Hobbs	Corporate Health & Safety Manager
Tally Sodre	OHSM		

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST ☒ HARD HAT ☐ LIFELINE / BODY HARNESS ☒ SAFETY GLASSES	☐ GOGGLES ☐ FACE SHIELD ☒ HEARING PROTECTION (as needed) ☒ SAFETY SHOES: Steel Toe or composite toe	☐ AIR PURIFYING RESPIRATOR ☐ SUPPLIED RESPIRATOR ☒ PPE CLOTHING: Fluorescent reflective vest of high-visibility clothing; long sleeve shirt; long pants	☒ GLOVES: Leather, nitrile, and cut resistant (as needed) ☐ OTHER

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Required Equipment: Varies

COMMITMENT TO SAFETY- All personnel onsite will actively participate in hazard recognition and mitigation throughout the day by verbalizing SPSAs

EXCLUSION ZONE (EZ): Maintain Minimum Heavy Equipment Exclusion Zone around equipment and loads while it is in motion. The HEEZ must be greater than the swing zone of any moving part of the equipment, tip zone of the equipment, fall zone of the equipment and contents, distance that debris may travel during demolition activities and/or foot print of a structure to be demolished.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Mobilize/demobilize and establish work area	**1a. FALL:** Slip/trips/falls from obstructions, uneven terrain, weather conditions, heavy loads, and/or poor housekeeping.	1a. Use 3 points-of-contact/ensure secure footing when entering and exiting vehicle. 1a. Inspect walking path for uneven terrain, steep hills, obstructions, and/or weather-related hazards (i.e., ice, snow, and puddles) prior to mobilizing equipment. Use established pathways. Walk on stable/secure ground. 1a. Do not climb over stored materials/equipment; walk around. Practice good housekeeping; organize and store equipment neatly in one area at its lowest potential energy. 1a. Wear boots with adequate treads. 1a. Delineate unsafe areas with 42" cones, caution tape and/or flagging.
	1b. CONTACT: Personal injury and/or property damage caused by being struck by Site traffic or equipment used in Site activities.	1b. Observe and maintain the posted speed limits. 1b. When first arriving onsite, park vehicles in designated parking space and/or out of the way locations. Use parking brake on all vehicles and tire chocks on work trucks and trailers. 1b. Check in with Site Manager/Supervisor to ensure coordination with other Site activities and to discuss any special hazards. Ensure that short-service employees (SSE) are identified. 1b. Identify potential traffic sources. 1b. Wear PPE including high visibility clothing or reflective vest. 1b. Use a spotter while moving work vehicles; plan ahead to avoid backing whenever possible. 1b. Maintain a minimum exclusion zone when vehicles are in motion (i.e. greater than swing/tip radius of equipment). When backing up truck rig with an attached trailer use a second spotter if there is tight clearance simultaneously on multiple sides of the equipment or if turning angles limit driver-to-spotter visibility. 1b. Delineate work area with 42" cones, flags, caution tape, and/or other barriers. 1b. Position "Work Area" signs at Site entrances, if possible, or at either side of work area.

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Assess **[1]JOB STEPS**	**Analyze** **[2]POTENTIAL HAZARDS**	**Act** **[3]CRITICAL ACTIONS**
		1b. Position largest vehicle to protect against oncoming traffic. 1b. Face traffic, maintain eye contact with oncoming vehicles, use a spotter, and establish a safe exit route. 1b. Observe potential overhead and ground surface features that may interfere with moving equipment. Clear the path of physical hazards prior to initiating mobilization.
	1c. CAUGHT: Personal injury from pinch points and being in line-of-fire of vehicle and/or equipment.	1c. Make sure driver has engaged parking brake and placed wheel chocks in a position to prevent movement. Be sure that vehicle is parked in front/down gradient (positioned to best block oncoming traffic) of work area. 1c. Wear leather gloves when handling any tools or equipment. Wear cut-resistant gloves (Kevlar or similar) when handling sharp objects/cutting tools/glass. 1c. Keep body parts away from line-of-fire of equipment. 1c. Always carry tools by the handles and/or designated carrier. Ensure sharp-edged tools are sheathed/secure. 1c. Remove any loose jewelry. Avoid wearing loose clothing and/or ensure loose clothing is secure. 1c. Secure all items on the equipment, tighten up any items or features that have potential to shift or break during mobilization.
	1d. OVEREXERTION: Muscle strains while lifting/carrying equipment.	1d. Use body positioning and lifting techniques that avoid muscle strain; keep back straight, lift with legs, turn with whole body, keep load close to body, and never reach with a load. 1d. Ensure that loads are balanced. Use assistance (mechanical or additional person) to carry equipment that is either unwieldy or over 50 lbs.
	1e. EXPOSURE: Personal injury from exposure to biological and environmental hazards.	1e. Inspect area to avoid contact with biological hazards (i.e. poisonous plants, stinging insects, ticks, etc.). 1e. Wear long sleeved clothes treated with Permethrin, apply insect repellant containing DEET to exposed skin, and inspect clothes and skin for ticks during and after work. 1e. Apply sunscreen (SPF 15+) if exposure to sun for 30 minutes or more is expected.
	1f. EXPOSURE: Weather related injuries.	1f. Watch for heat stress symptoms (muscle cramping, exhaustion, dizziness, nausea, rapid and shallow breathing). Take breaks in cool places and hydrate as needed. 1f. Watch for cold stress symptoms (severe shivering, slowing of body movement, weakness, stumbling or inability to walk, collapse). Take breaks in warm areas as needed. 1f. Wear clothing appropriate for weather and temperature conditions (e.g., rain jackets, snow pants, multiple layers). 1f. If lightning is observed, wait 30 minutes in a sheltered location (car is acceptable) before resuming work.
	1g. EXPOSURE: Personal injury from noise hazards.	1g. Wear hearing protection if sound levels exceed 85 dBA (if you must raise your voice for normal conversation).

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JOB SAFETY ANALYSIS	Ctrl. No. GEN-019	DATE: 7/10/2020	☐ NEW ☒ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY	WORK TYPE	WORK ACTIVITY (Description)
GENERIC	**Site Recon**	**Site Walk and Inspection**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Sara Barrientos	Staff Geologist	Brian Hobbs	Corporate Health and Safety Manager
		Joe Duminuco	Vice President

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST ☒ HARD HAT ☐ LIFELINE / BODY HARNESS ☒ SAFETY GLASSES	☐ GOGGLES ☐ FACE SHIELD ☒ HEARING PROTECTION: ear plugs as necessary ☒ SAFETY SHOES: Steel or composite toed	☐ AIR PURIFYING RESPIRATOR ☐ SUPPLIED RESPIRATOR ☒ PPE CLOTHING: High-visibility vest or high-vis outerwear	☒ GLOVES: Leather/cut-resistant/chemical resistant ☒ OTHER: Tyvek and rubber boots as necessary, dust mask as necessary

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Required Equipment: Site map, emergency contact list, documentation of urgent care/hospital routes and / or guide familiar with Site, operating cell phone or walkie-talkie if Site allows.

Commitment to Safety – All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

EXCLUSION ZONE (EZ): Maintain Minimum Heavy Equipment Exclusion Zone around equipment and loads while it is in motion. The HEEZ must be greater than the swing zone of any moving part of the equipment, tip zone of the equipment, fall zone of the equipment and contents, distance that debris may travel during demolition activities and/or foot print of a structure to be demolished.

SITE SECURITY: Prior to site inspection verify appropriate method to address Site Security concerns as it relates to potential criminal activity, homeless population, and/or isolation concerns. Work with the Project Principal and/or Project Manager to address appropriately.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Check in with Site contact.	**1a. CONTACT/EXPOSURE/FALL:** Personal injury caused by lack of site specific hazards.	1a. Inquire about hazards and other activities taking place at the Site. 1a. Inform Site contact of work scope, timeline and location(s). 1a. Discuss emergency evacuation procedures and muster points with Site contact.
2. Traversing the Site	**2a. CONTACT:** Property damage and personal injury caused by obstructions/vehicles or unauthorized personnel at remote Sites.	2a. All equipment must be stowed and secured prior to moving. 2a. Maintain speed limit as posted on-site. 2a. When possible drive on established roadways. 2a. Yield to all pedestrians. 2a. Use pull-through spots or back into parking spots. 2a. Don high visibility clothing/safety vest. If working at remote Site, add orange accessories during hunting season.
	2b. FALL: Uneven terrain and weather conditions. Overgrown shrubs and vines. Equipment in the work zone.	2b. Inspect walking path for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions prior to mobilizing equipment. 2b. When possible, use established pathways and walk on stable, secure ground. 2b. Communicate traversing hazards with others.
	2c. OVEREXERTION: Muscle strain while carrying equipment.	2c. When carrying equipment to/from work area, use proper lifting techniques; keep back straight, lift with legs, keep load close to body, never reach with a load. Ensure that loads are balanced to reduce the potential for muscle strain. Use mechanical assistance or make multiple trips to carry equipment.
	2d. EXPOSURE: Biological hazards – ticks; bees/wasps; poison ivy; insects; (Ticks are most active any time the temperature is above freezing, typically from March to November.)	2d. Inspect area to avoid contact with biological hazards. 2d. Ticks: • Treat outer clothing including pants, shirts, socks, boots and hats the evening before with Permethrin (allowing at least two hours before use). • Apply DEET to exposed skin before travelling to the Site and reapply after two hours. • Check for ticks during and after work. 2d. Bees: • Use bee spray as appropriate to deter/eliminate bees.

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[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

	2e. EXPOSURE: Heat Stress & Cold Stress. Personal injury from working in inclement weather conditions.	• Protect exposed skin with insect repellent. 2d. Poison Ivy: • Identify areas of poison ivy and spray with weed killer. Don Tyvek and rubber boots while traversing poison ivy areas. • If skin contacts poison ivy, wash skin thoroughly with soap and water. 2e. Wear sunscreen with SPF 15 or greater on exposed skin whenever 30 minutes or more of sun exposure is expected. 2e. Watch for heat stress symptoms (muscle cramping, exhaustion, dizziness, rapid and shallow breathing). Take breaks as needed. 2e. Watch for cold stress symptoms (severe shivering, slowing of body movement, weakness, stumbling or inability to walk, collapse). Take breaks as needed. 2e. Wear appropriate rain gear as needed. 2e. Take frequent breaks if tired, wet, or cold/hot. Drink water. 2e. If lightning is observed, wait 30 minutes after last thunder boom/lightning bolt in a sheltered location (car acceptable) before starting work again.
3. Walking near heavy equipment and machinery.	**3a. CONTACT:** Personal injury from Site and roadway traffic. Personal injury from flying debris **3b. OVEREXERTION:** Personal injury from lifting/moving/rotating equipment. **3c. EXPOSURE:** Hearing damage from noise generating equipment/processes. Inhalation/exposure to hazardous vapors and or dust. **3d. EXPOSURE:** Working in a remote area.	3a. See 2a. 3a. Maintain an exclusion zone of at least 10'-25' feet from all engaged equipment. 3a. Keep body parts out of the line of fire of pinch points. 3a. Wear appropriate PPE always. 3b. See 2c. 3c. Wear hearing protection if >85 dBA. (i.e. noise levels which require you to raise your voice to communicate) 3c. Always wear leather gloves when handling any tools or equipment. 3c. Always wear appropriate PPE based off chemicals present. 3d. Use the "buddy system" whenever possible. If working alone, contact PM upon arrival/departure, as well as during work activities prior to commencing work if applicable. 3d. Always carry a communication (i.e., cell phone, walkie-talkie) or directional (i.e., map, compass, etc.) device when traversing remote areas.
4. Working in adverse weather conditions.	**4a. EXPOSURE:** Heat Stress & Cold Stress. Personal injury from working in inclement weather conditions.	4a. Watch for heat stress symptoms (muscle cramping, exhaustion, dizziness, rapid and shallow breathing). Take breaks as needed. 4a. Watch for cold stress symptoms (severe shivering, slowing of body movement, weakness, stumbling or inability to walk, collapse). Take breaks as needed. 4a. Wear appropriate rain gear as needed. 4a. Take frequent breaks if tired, wet, or cold/hot. Drink water. 4a. If lightning is observed, wait 30 minutes after last thunder boom/lightning bolt in a sheltered location (car acceptable) before starting work again.
5. Departing Site.	**5a. EXPOSURE:** Exposure to unnecessary hazards should personnel believe Roux is on-Site during an emergency and conduct a search.	5a. Sign out or notify Site contact and Roux Project Manager of your departure.

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JOB SAFETYANALYSIS	**Ctrl. No. GEN-020**	DATE: 7/10/2020	☐NEW ☒REVISED	PAGE 1 of 2

JSA TYPE CATEGORY: **GENERIC**	WORK TYPE: **Gauging & Sampling**	WORK ACTIVITY (Description): **Soil Sampling**	
DEVELOPMENT TEAM	**POSITION / TITLE**	**REVIEWED BY:**	**POSITION / TITLE**
MaryBeth Lyons	Project Scientist	Brian Hobbs	Corporate Health and Safety Manager

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST	☐ GOGGLES	☐ AIR PURIFYING RESPIRATOR	☒ GLOVES: Leather, Nitrile and cut resistant
☒ HARD HAT	☐ FACE SHIELD:	☐ SUPPLIED RESPIRATOR	☒ OTHER: Insect repellant, sunscreen (as needed)
☐ LIFELINE / BODY HARNESS	☒ HEARING PROTECTION: (as needed)	☒ PPE CLOTHING: Fluorescent reflective vest or high visibility clothing	
☒ SAFETY GLASSES	☒ SAFETY SHOES: Composite-toe or steel toe boots		
☒ FLAME RESISTANT CLOTHING (as needed)			

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Recommended Equipment: 42" traffic cones, caution tape, trowel

COMMITMENT TO SAFETY- All personnel onsite will actively participate in hazard recognition and mitigation throughout the day by verbalizing SPSAs.

EXCLUSION ZONE (EZ): Maintain Minimum Heavy Equipment Exclusion Zone around equipment and loads while it is in motion. The HEEZ must be greater than the swing zone of any moving part of the equipment, tip zone of the equipment, fall zone of the equipment and contents, distance that debris may travel during demolition activities and/or foot print of a structure to be demolished.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Secure location	**1a. CONTACT:** Personnel and vehicular traffic may enter the work area.	1a. If in an area with foot or vehicle traffic, delineate the work area with 42" traffic cones and/or caution tape to prevent exposure to traffic and inform others of work activity. 1a. Wear reflective vest and/or high visibility clothing. 1a. Face the direction of any vehicular traffic. Position vehicle to protect worker from traffic. 1a. Communicate work activity with adjacent work areas.
	1b. FALL: Tripping/falling due to uneven terrain or entry/exit from excavations.	1b. Inspect pathways and work area for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions. 1b. Use established pathways and walk on stable, secure ground. 1b. Stage equipment and tools in a convenient, stable, and orderly manner. Store equipment at lowest potential energy. 1b. Roux employees should stay 5 feet from in-progress excavations and trenches. Should entry to an excavation be required (when stabilization is complete), ladders must be employed for steep embankments, excavations, pits, and trenches.
	1c. EXPOSURE: Exposure to sun and excessive heat, possibly causing sunburn, heat exhaustion or heat stroke. Exposure to cold temperatures possibly causing cold stress. Skin burn as a result of fire, if applicable. Exposure to explosive vapors due to tank farm operations. Exposure to airborne dust due to high wind speeds. Biological hazards - ticks, bees/wasps, poison ivy, thorns, insects, etc.	1c. Wear sunscreen with an SPF 15 or greater whenever 30 minutes or more of exposure is expected. 1c. Use a tent to shade the work area from direct sunlight particularly when warm temperatures are expected. 1c. Be aware of the location of all Site personnel. 1c. Watch for heat stress symptoms (muscle cramping, exhaustion, dizziness, rapid and shallow breathing). 1c. Watch for cold stress symptoms (severe shivering, slowing of body movement, weakness, stumbling or inability to walk, collapse). 1c. Take breaks for rest and water as necessary. Move to an area that is well shaded or a climate controlled area (i.e., car, site trailer, etc.). 1c. No open flames/heat sources. 1c. Flame retardant clothing must be worn when specified by Site policy. 1c. Cell phones should be disabled when specified by Site policy. 1c. Pre-treat field clothing with Permethrin prior to site visit to kill ticks and insects. 1c. Wear long sleeved shirts and tuck in (or tape) pant legs into socks or boots to prevent ticks from reaching skin. 1c. Spray insect repellant containing DEET on exposed skin when working in overgrown areas of the Site. 1c. Inspect area to avoid contact with biological hazards. 1c. Wear cut-resistant gloves when handling branches, shrubs, etc. that may lie within the walking path. 1c. Wear spoggles if the average wind speeds are above 15 mph. 1c. Personnel shall examine themselves and co-worker's outer clothing for ticks periodically when onsite. 1c. If skin comes in contact with poison ivy, wash skin thoroughly with soap and water. If rash persists after washing, immediately notify your supervisor, the OM and OHSM for possible consultation with a physician at an approved Occupational Health Clinic.

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[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
2. Collect Soil Sample	**2a. CONTACT:** Personal injury from pinch points, cuts, and abrasions from sampling equipment tools, and material within soil sample. Personal injury from contact with moving equipment while sampling. Personal injury from contact with glass sample jars.	2a. Wear cut-resistant (i.e., Kevlar) gloves under chemical-resistant (nitrile) disposable gloves when handling soil samples and sampling jars. 2a. Where possible, use trowel or equivalent tool to avoid contact with soil. 2a. If sampling from bucket of heavy equipment, ensure all equipment is off and operator utilizes the “show me your hands” policy. 2a. See 1a.
	2b. EXPOSURE: Exposure to contamination (impacted soil) and/or lab preservatives.	2b. Wear chemical-resistant (nitrile) disposable gloves over cut resistant gloves to protect hands when handling samples; use containment material or plastic sheeting to protect surrounding areas. 2b. Wear safety glasses to protect eyes from dust or air-borne contaminants that may results from disturbing the soil. 2b. Where possible, remain upgradient from sample location if collecting soil sample from stockpile, drill rig, etc. to avoid breathing contaminant vapors, if they are present. 2b. When collecting soil sample from hand auger, put large zip lock bag over entire auger to prevent spillage of soil on to the ground. 2b. Open sample jars slowly and fill carefully to avoid contact with preservatives.
	2c. EXERTION: Exertion due to repetitive motion and ergonomics.	2c. Utilize a table or raised surface for soil sampling if multiple soil samples are going to be taken to minimize repetitive bending motion.
3. Decontaminate equipment	**3a. EXPOSURE/CONTACT:** Contamination (e.g., Separate Phase Hydrocarbons (SPH), contaminated vapors and/or soil).	3a. Wear chemical-resistant (nitrile) disposable gloves and safety glasses. 3a. Use an absorbent pad to clean spills. 3a. Properly dispose of used materials/PPE in provided drums in designated drum storage area. 3a. Remain upwind of sample and avoid breathing contaminant vapors, if they are present.
	3b. EXPOSURE: Chemicals in cleaning solution including ammonia.	3b. Wear chemical-resistant (nitrile) disposable gloves and safety glasses. 3b. Work on the upwind side of decontamination area. 3b. Use an absorbent pad to clean spills. 3b. Properly dispose of used materials/PPE in provided drums in designated drum storage area. Ensure that all drums are properly labeled and secured.

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JOB SAFETY ANALYSIS	Ctrl. No. GEN-021	DATE: 7/10/2020	☐ NEW ☒ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY:	WORK TYPE	WORK ACTIVITY (Description)
GENERIC	**Gauging and Sampling**	**Soil Vapor Sampling (Permanent Monitoring Points)**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Jeff Wills	Senior Hydrogeologist	Brian Hobbs	Corporate Health and Safety Manager

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST	☐ GOGGLES	☐ AIR PURIFYING RESPIRATOR	☒ GLOVES: Cut-resistant & Nitriles
☒ HARD HAT	☐ FACE SHIELD	☐ SUPPLIED RESPIRATOR	☒ OTHER: Bug Spray, Sun Screen, Knee Pads or kneeling pad
☐ LIFELINE / BODY HARNESS	☐ HEARING PROTECTION	☒ PPE CLOTHING: Fluorescent reflective vest or high visibility clothing	
☒ SAFETY GLASSES	☒ SAFETY SHOES: Steel-toe boots		

REQUIRED AND / OR RECOMMENDED EQUIPMENT

9/16" Socket and Wrench, Non-Toxic Clay, Teflon-Lined Tubing, Masterflex Tubing, Air Pump with Low Flow, Dry Cal, Enclosure (Bucket with 2 holes), Helium Gas Canister, Summa Canisters and Flow Controllers, MultiRae Photo Ionization Detector (PID), Helium Detector, Tubing Cutter, 42-inch Safety Cones, Caution Tape or Retractable Cone Bars

COMMITMENT TO SAFETY- All personnel onsite will actively participate in hazard recognition and mitigation throughout the day by verbalizing SPSAs.

Work Zone (WZ): A 5-foot exclusion zone will be maintained for non-essential personnel.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Define and secure work area.	**1a. FALL:** Potential tripping hazards. **1b. CONTACT:** Potential contact with moving vehicles or pedestrians. **1c. EXERTION:** Muscle strain while lifting and carrying equipment.	1a. Ensure work area is secure and inform others (third party) of work activity. 1a. Remove tripping hazards and inspect walking path for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions prior to mobilizing equipment. 1b. If working alongside roads, look both ways before entering roadways, face traffic, and utilize work vehicle to protect employees. 1b. Delineate work area (including vehicles) with traffic safety cones and caution tape or retractable cone bars. 1b. Maintain a 5-foot work zone. 1b. Wear high visibility clothing or reflective safety vest. 1c. When carrying equipment to/from work area, keep back straight, lift with legs, keep load close to body, never reach with a load. Ensure that loads are balanced. Use mechanical assistance/make multiple trips to carry equipment.
2. Remove well cover / close well cover.	**2a. CONTACT/CAUGHT:** Pinch points and scrapes associated with hand tools and well covers. **2b. FALL:** Potential tripping hazards associated with installing bolts. **2c. EXERTION:** Physical exertion to remove bolts that were over torqued or stripped.	2a. Keep hands away from pinch points. 2a. Use hand tools with extensions to remove and replace well covers. 2a. Wear cut-resistant gloves. 2a. Use knee pads or kneeling pad when repetitive kneeling on rough ground is anticipated. 2b. Place security bolts in secure location so not to create tripping hazards. Replace security bolts so that they fit flush with monitoring well covers. 2c. Replace any security bolts that show signs of stripping. Do not over tighten. 2c. Use body positioning and bending techniques that minimize muscle strain; keep back straight, bend at the knees. 2c. See 2a.

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Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
3. Screen vapor point with PID.	**3a. FALL:** Potential tripping hazards associated with equipment. **3b. EXPOSURE:** Inhalation of soil vapor	3a. Place equipment in one area close to the sampling location. 3b. Identify area where equipment is to be stored within the work area (away from main walking path). 3a. Don't leave equipment on the ground. Return equipment to storage area between uses. 3b. Replace brass caps immediately upon completion to avoid soil vapors migrating to the surface through sample tubing. 3b. Stand upwind of sample point during screening activities.
4. Remove / replace brass caps at the end of the sam`ple tubing.	**4a. CONTACT:** Pinch points associated with hand tools and brass caps. **4b. EXPOSURE:** Potential pathway for vapors to migrate to land surface.	4a. Use wrench to remove and replace brass caps. 4a. Wear cut-resistant gloves to protect against pinch points and scrapes. 4b. See 3b. 4b. Stand up wind of sample point location.
5. Set up soil vapor sampling equipment and calibration of meters.	**5a. FALL:** Potential tripping hazards associated with equipment and tubing.5b. **5b. CONTACT:** Pinch points associated with handling equipment. **5c. EXPOSURE:** Inhalation of calibration gas and helium.	5a. See 3a. 5a. Keep tubing slack to a minimum and locate the summa canister as close to the sampling location as possible. 5a. Avoid stepping over equipment and tubing. 5b. Do not place fingers/hands under sampling equipment. 5b. Make multiple trips when unloading equipment in work area. 5b. Wear cut-resistant gloves to protect against pinch points while handling sampling equipment. 5c. Review SDS for each type of calibration gas used before calibrating. 5c. Calibrate meters in a well-ventilated area and keep air flow regulator away from face. 5c. Close valve on canisters after use to avoid inhalation of excess helium or calibration gas. 5c. Stand up wind of bucket during helium tracer gas test.
6. Cleaning Work Area.	**6a. FALL:** Potential tripping hazards associated with equipment and tubing. **6b. CONTACT:** Storing and transport of equipment in car.	6a. See 3a. 6a. See 3b. 6b. Ensure that equipment is placed securely in the vehicle. Do not stack equipment on top of each other. Secure equipment so that it will not slide while being transported. 6b. Wear cut-resistant gloves while handling/loading equipment.

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APPENDIX B

SDSs for Chemicals Used

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

1 Identification of the substance/mixture and of the supplier

1.1 Product identifier

Trade Name: Alconox
Synonyms:
Product number: Alconox

1.2 Application of the substance / the mixture : Cleaning material/Detergent

1.3 Details of the supplier of the Safety Data Sheet

Manufacturer	**Supplier**
Alconox, Inc. 30 Glenn Street White Plains, NY 10603 1-914-948-4040	Not Applicable

Emergency telephone number:
ChemTel Inc
North America: 1-800-255-3924
International: 01-813-248-0585

2 Hazards identification

2.1 Classification of the substance or mixture:

In compliance with EC regulation No. 1272/2008, 29CFR1910/1200 and GHS Rev. 3 and amendments.

Hazard-determining components of labeling:
Tetrasodium Pyrophosphate
Sodium tripolyphosphate
Sodium Alkylbenzene Sulfonate

2.2 Label elements:

Skin irritation, category 2.
Eye irritation, category 2A.

Hazard pictograms:

Signal word: Warning

Hazard statements:
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements:
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 If on skin: Wash with soap and water.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P321 Specific treatment (see supplemental first aid instructions on this label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P501 Dispose of contents and container as instructed in Section 13.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

Additional information: None.

Hazard description
Hazards Not Otherwise Classified (HNOC): None

Information concerning particular hazards for humans and environment:
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:
The classification is according to EC regulation No. 1272/2008, 29CFR1910/1200 and GHS Rev. 3 and amendments, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

3 Composition/information on ingredients

3.1 Chemical characterization : None

3.2 Description : None

3.3 Hazardous components (percentages by weight)

Identification	Chemical Name	Classification	Wt. %
CAS number: 7758-29-4	Sodium tripolyphosphate	Skin Irrit. 2 ; H315 Eye Irrit. 2; H319	12-28
CAS number: 68081-81-2	Sodium Alkylbenzene Sulfonate	Acute Tox. 4; H303 Skin Irrit. 2 ; H315 Eye Irrit. 2; H319	8-22
CAS number: 7722-88-5	Tetrasodium Pyrophosphate	Skin Irrit. 2 ; H315 Eye Irrit. 2; H319	2-16

3.4 Additional Information : None.

4 First aid measures

4.1 Description of first aid measures

General information: None.

After inhalation:
Maintain an unobstructed airway.
Loosen clothing as necessary and position individual in a comfortable position.

After skin contact:
Wash affected area with soap and water.
Seek medical attention if symptoms develop or persist.

After eye contact:
Rinse/flush exposed eye(s) gently using water for 15-20 minutes.
Remove contact lens(es) if able to do so during rinsing.
Seek medical attention if irritation persists or if concerned.

After swallowing:
Rinse mouth thoroughly.
Seek medical attention if irritation, discomfort, or vomiting persists.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

4.2 Most important symptoms and effects, both acute and delayed

None

4.3 Indication of any immediate medical attention and special treatment needed:

No additional information.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

For safety reasons unsuitable extinguishing agents : None

5.2 Special hazards arising from the substance or mixture :

Thermal decomposition can lead to release of irritating gases and vapors.

5.3 Advice for firefighters

Protective equipment:

Wear protective eye wear, gloves and clothing.
Refer to Section 8.

5.4 Additional information :

Avoid inhaling gases, fumes, dust, mist, vapor and aerosols.
Avoid contact with skin, eyes and clothing.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures :

Ensure adequate ventilation.
Ensure air handling systems are operational.

6.2 Environmental precautions :

Should not be released into the environment.
Prevent from reaching drains, sewer or waterway.

6.3 Methods and material for containment and cleaning up :

Wear protective eye wear, gloves and clothing.

6.4 Reference to other sections : None

7 Handling and storage

7.1 Precautions for safe handling :

Avoid breathing mist or vapor.
Do not eat, drink, smoke or use personal products when handling chemical substances.

7.2 Conditions for safe storage, including any incompatibilities :

Store in a cool, well-ventilated area.

7.3 Specific end use(s):

No additional information.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

8 Exposure controls/personal protection

8.1 Control parameters :

7722-88-5, Tetrasodium Pyrophosphate, OSHA TWA 5 mg/m3.

8.2 Exposure controls

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Respiratory protection:

Not needed under normal conditions.

Protection of skin:

Select glove material impermeable and resistant to the substance.

Eye protection:

Safety goggles or glasses, or appropriate eye protection.

General hygienic measures:

Wash hands before breaks and at the end of work.
Avoid contact with skin, eyes and clothing.

9 Physical and chemical properties

Appearance (physical state, color):	White and cream colored flakes - powder	**Explosion limit lower**: **Explosion limit upper**:	Not determined or not available. Not determined or not available.
Odor:	Not determined or not available.	**Vapor pressure at 20°C**:	Not determined or not available.
Odor threshold:	Not determined or not available.	**Vapor density**:	Not determined or not available.
pH-value:	9.5 (aqueous solution)	**Relative density**:	Not determined or not available.
Melting/Freezing point:	Not determined or not available.	**Solubilities**:	Not determined or not available.
Boiling point/Boiling range:	Not determined or not available.	**Partition coefficient (n-octanol/water)**:	Not determined or not available.
Flash point (closed cup):	Not determined or not available.	**Auto/Self-ignition temperature**:	Not determined or not available.
Evaporation rate:	Not determined or not available.	**Decomposition temperature**:	Not determined or not available.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

Flammability (solid, gaseous):	Not determined or not available.	**Viscosity**:	a. Kinematic: Not determined or not available. b. Dynamic: Not determined or not available.
Density at 20°C:	Not determined or not available.		

10 Stability and reactivity

10.1 Reactivity : None

10.2 Chemical stability : None

10.3 Possibility hazardous reactions : None

10.4 Conditions to avoid : None

10.5 Incompatible materials : None

10.6 Hazardous decomposition products : None

11 Toxicological information

11.1 Information on toxicological effects :

Acute Toxicity:

Oral:

: LD50 > 5000 mg/kg oral rat - Product .

Chronic Toxicity: No additional information.

Skin corrosion/irritation:

Sodium Alkylbenzene Sulfonate: Causes skin irritation. .

Serious eye damage/irritation:

Sodium Alkylbenzene Sulfonate: Causes serious eye irritation .

Tetrasodium Pyrophosphate: Rabbit - Risk of serious damage to eyes .

Respiratory or skin sensitization: No additional information.

Carcinogenicity: No additional information.

IARC (International Agency for Research on Cancer): None of the ingredients are listed.

NTP (National Toxicology Program): None of the ingredients are listed.

Germ cell mutagenicity: No additional information.

Reproductive toxicity: No additional information.

STOT-single and repeated exposure: No additional information.

Additional toxicological information: No additional information.

12 Ecological information

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

12.1 Toxicity:

Sodium Alkylbenzene Sulfonate: Fish, LC50 1.67 mg/l, 96 hours.
Sodium Alkylbenzene Sulfonate: Aquatic invertebrates, EC50 Daphnia 2.4 mg/l, 48 hours.
Sodium Alkylbenzene Sulfonate: Aquatic Plants, EC50 Algae 29 mg/l, 96 hours.
Tetrasodium Pyrophosphate: Fish, LC50 - other fish - 1,380 mg/l - 96 h.
Tetrasodium Pyrophosphate: Aquatic invertebrates, EC50 - Daphnia magna (Water flea) - 391 mg/l - 48 h.

12.2 Persistence and degradability: No additional information.

12.3 Bioaccumulative potential: No additional information.

12.4 Mobility in soil: No additional information.

General notes: No additional information.

12.5 Results of PBT and vPvB assessment:

PBT: No additional information.

vPvB: No additional information.

12.6 Other adverse effects: No additional information.

13 Disposal considerations

13.1 Waste treatment methods (consult local, regional and national authorities for proper disposal)

Relevant Information:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities. (US 40CFR262.11).

14 Transport information

14.1 UN Number: ADR, ADN, DOT, IMDG, IATA	None
14.2 UN Proper shipping name: ADR, ADN, DOT, IMDG, IATA	None
14.3 Transport hazard classes: ADR, ADN, DOT, IMDG, IATA	**Class:** None **Label:** None **LTD. QTY:** None

US DOT

Limited Quantity Exception: None

Bulk:
RQ (if applicable): None
Proper shipping Name: None
Hazard Class: None
Packing Group: None
Marine Pollutant (if applicable): No additional information.

Non Bulk:
RQ (if applicable): None
Proper shipping Name: None
Hazard Class: None
Packing Group: None
Marine Pollutant (if applicable): No additional information.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

Comments: None	**Comments:** None
14.4 Packing group: ADR, ADN, DOT, IMDG, IATA	None
14.5 Environmental hazards :	None
14.6 Special precautions for user:	None
Danger code (Kemler):	None
EMS number:	None
Segregation groups:	None
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.	
14.8 Transport/Additional information:	
Transport category:	None
Tunnel restriction code:	None
UN "Model Regulation":	None

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

North American

SARA

Section 313 (specific toxic chemical listings): None of the ingredients are listed.
Section 302 (extremely hazardous substances): None of the ingredients are listed.

CERCLA (Comprehensive Environmental Response, Clean up and Liability Act) Reportable

Spill Quantity: None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

Inventory: All ingredients are listed.
Rules and Orders: Not applicable.

Proposition 65 (California):

Chemicals known to cause cancer: None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed.

Chemicals known to cause developmental toxicity: None of the ingredients are listed.

Canadian

Canadian Domestic Substances List (DSL):
All ingredients are listed.

EU

REACH Article 57 (SVHC): None of the ingredients are listed.

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Trade Name: Alconox

Germany MAK: Not classified.

Asia Pacific

Australia

Australian Inventory of Chemical Substances (AICS): All ingredients are listed.

China

Inventory of Existing Chemical Substances in China (IECSC): All ingredients are listed.

Japan

Inventory of Existing and New Chemical Substances (ENCS): All ingredients are listed.

Korea

Existing Chemicals List (ECL): All ingredients are listed.

New Zealand

New Zealand Inventory of Chemicals (NZOIC): All ingredients are listed.

Philippines

Philippine Inventory of Chemicals and Chemical Substances (PICCS): All ingredients are listed.

Taiwan

Taiwan Chemical Substance Inventory (TSCI): All ingredients are listed.

16 Other information

Abbreviations and Acronyms: None

Summary of Phrases

Hazard statements:

H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements:

P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 If on skin: Wash with soap and water.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P321 Specific treatment (see supplemental first aid instructions on this label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P501 Dispose of contents and container as instructed in Section 13.

Manufacturer Statement:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NFPA: 1-0-0

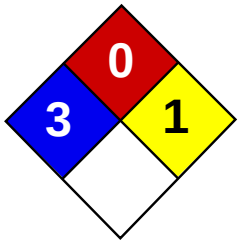
Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

HMIS: 1-0-0



Health	3
Fire	0
Reactivity	1
Personal Protection	

Material Safety Data Sheet
Hydrochloric acid MSDS

Section 1: Chemical Product and Company Identification

Product Name: Hydrochloric acid

Catalog Codes: SLH1462, SLH3154

CAS#: Mixture.

RTECS: MW4025000

TSCA: TSCA 8(b) inventory: Hydrochloric acid

CI#: Not applicable.

Synonym: Hydrochloric Acid; Muriatic Acid

Chemical Name: Not applicable.

Chemical Formula: Not applicable.

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Hydrogen chloride	7647-01-0	20-38
Water	7732-18-5	62-80

Toxicological Data on Ingredients: Hydrogen chloride: GAS (LC50): Acute: 4701 ppm 0.5 hours [Rat].

Section 3: Hazards Identification

Potential Acute Health Effects:
Very hazardous in case of skin contact (corrosive, irritant, permeator), of eye contact (irritant, corrosive), of ingestion, . Slightly hazardous in case of inhalation (lung sensitizer). Non-corrosive for lungs. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Severe over-exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Potential Chronic Health Effects:
Slightly hazardous in case of skin contact (sensitizer). CARCINOGENIC EFFECTS: Classified 3 (Not classifiable for human.) by IARC [Hydrochloric acid]. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to kidneys, liver, mucous membranes, upper respiratory tract, skin, eyes, Circulatory System, teeth. Repeated or prolonged exposure to the substance can produce target

organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

Skin Contact:
In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used.Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

Ingestion:
If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: of metals

Explosion Hazards in Presence of Various Substances: Non-explosive in presence of open flames and sparks, of shocks.

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards:
Non combustible. Calcium carbide reacts with hydrogen chloride gas with incandescence. Uranium phosphide reacts with hydrochloric acid to release spontaneously flammable phosphine. Rubidium acetylene carbides burns with slightly warm hydrochloric acid. Lithium silicide in contact with hydrogen chloride becomes incandescent. When dilute hydrochloric acid is used, gas spontaneously flammable in air is evolved. Magnesium boride treated with concentrated hydrochloric acid produces spontaneously flammble gas. Cesium acetylene carbide burns hydrogen chloride gas. Cesium carbide ignites in contact with hydrochloric acid unless acid is dilute. Reacts with most metals to produce flammable Hydrodgen gas.

Special Remarks on Explosion Hazards:

Hydrogen chloride in contact with the following can cause an explosion, ignition on contact, or other violent/vigorous reaction: Acetic anhydride AgClO + CCl4 Alcohols + hydrogen cyanide, Aluminum Aluminum-titanium alloys (with HCl vapor), 2-Amino ethanol, Ammonium hydroxide, Calcium carbide Ca3P2 Chlorine + dinitroanilines (evolves gas), Chlorosulfonic acid Cesium carbide Cesium acetylene carbide, 1,1-Difluoroethylene Ethylene diamine Ethylene imine, Fluorine, HClO4 Hexalithium disilicide H2SO4 Metal acetylides or carbides, Magnesium boride, Mercuric sulfate, Oleum, Potassium permanganate, beta-Propiolactone Propylene oxide Rubidium carbide, Rubidium, acetylene carbide Sodium (with aqueous HCl), Sodium hydroxide Sodium tetraselenium, Sulfonic acid, Tetraselenium tetranitride, U3P4 , Vinyl acetate. Silver perchlorate with carbon tetrachloride in the presence of hydrochloric acid produces trichloromethyl perchlorate which detonates at 40 deg. C.

Section 6: Accidental Release Measures

Small Spill:
Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.

Large Spill:
Corrosive liquid. Poisonous liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of sodium carbonate. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep locked up.. Keep container dry. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, organic materials, metals, alkalis, moisture. May corrode metallic surfaces. Store in a metallic or coated fiberboard drum using a strong polyethylene inner package.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:
Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
CEIL: 5 (ppm) from OSHA (PEL) [United States] CEIL: 7 (mg/m3) from OSHA (PEL) [United States] CEIL: 5 from NIOSH CEIL: 7 (mg/m3) from NIOSH TWA: 1 STEL: 5 (ppm) [United Kingdom (UK)] TWA: 2 STEL: 8 (mg/m3) [United Kingdom (UK)]Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor: Pungent. Irritating (Strong.)

Taste: Not available.

Molecular Weight: Not applicable.

Color: Colorless to light yellow.

pH (1% soln/water): Acidic.

Boiling Point:
108.58 C @ 760 mm Hg (for 20.22% HCl in water) 83 C @ 760 mm Hg (for 31% HCl in water) 50.5 C (for 37% HCl in water)

Melting Point:
-62.25°C (-80°F) (20.69% HCl in water) -46.2 C (31.24% HCl in water) -25.4 C (39.17% HCl in water)

Critical Temperature: Not available.

Specific Gravity:
1.1- 1.19 (Water = 1) 1.10 (20%and 22% HCl solutions) 1.12 (24% HCl solution) 1.15 (29.57% HCl solution) 1.16 (32% HCl solution) 1.19 (37% and 38%HCl solutions)

Vapor Pressure: 16 kPa (@ 20°C) average

Vapor Density: 1.267 (Air = 1)

Volatility: Not available.

Odor Threshold: 0.25 to 10 ppm

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water, diethyl ether.

Solubility: Soluble in cold water, hot water, diethyl ether.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Incompatible materials, water

Incompatibility with various substances:
Highly reactive with metals. Reactive with oxidizing agents, organic materials, alkalis, water.

Corrosivity:
Extremely corrosive in presence of aluminum, of copper, of stainless steel(304), of stainless steel(316). Non-corrosive in presence of glass.

Special Remarks on Reactivity:
Reacts with water especially when water is added to the product. Absorption of gaseous hydrogen chloride on mercuric sulfate becomes violent @ 125 deg. C. Sodium reacts very violently with gaseous hydrogen chloride. Calcium phosphide and hydrochloric acid undergo very energetic reaction. It reacts with oxidizers releasing chlorine gas. Incompatible with, alkali metals, carbides, borides, metal oxides, vinyl acetate, acetylides, sulphides, phosphides, cyanides, carbonates. Reacts with most metals to produce flammable Hydrogen gas. Reacts violently (moderate reaction with heat of evolution) with water especially when water is added to the product. Isolate hydrogen chloride from heat, direct sunlight, alkalies (reacts vigorously), organic materials, and oxidizers (especially nitric acid and chlorates), amines, metals, copper and alloys (e.g. brass), hydroxides, zinc (galvanized materials), lithium silicide (incandescence), sulfuric acid(increase in temperature and pressure) Hydrogen chloride gas is emitted when this product is in contact with sulfuric acid. Adsorption of Hydrochloric Acid onto silicon dioxide results in exothmeric reaction. Hydrogen chloride causes aldehydes and epoxides to violently polymerize. Hydrogen chloride or Hydrochloric Acid in contact with the folloiwng can cause explosion or ignition on contact or

Special Remarks on Corrosivity:

Highly corrosive. Incompatible with copper and copper alloys. It attacks nearly all metals (mercury, gold, platinium, tantalum, silver, and certain alloys are exceptions). It is one of the most corrosive of the nonoxidizing acids in contact with copper alloys. No corrosivity data on zinc, steel. Severe Corrosive effect on brass and bronze

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation.

Toxicity to Animals:
Acute oral toxicity (LD50): 900 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 1108 ppm, 1 hours [Mouse]. Acute toxicity of the vapor (LC50): 3124 ppm, 1 hours [Rat].

Chronic Effects on Humans:
CARCINOGENIC EFFECTS: Classified 3 (Not classifiable for human.) by IARC [Hydrochloric acid]. May cause damage to the following organs: kidneys, liver, mucous membranes, upper respiratory tract, skin, eyes, Circulatory System, teeth.

Other Toxic Effects on Humans:
Very hazardous in case of skin contact (corrosive, irritant, permeator), of ingestion, . Hazardous in case of eye contact (corrosive), of inhalation (lung corrosive).

Special Remarks on Toxicity to Animals:
Lowest Published Lethal Doses (LDL/LCL) LDL [Man] -Route: Oral; 2857 ug/kg LCL [Human] - Route: Inhalation; Dose: 1300 ppm/30M LCL [Rabbit] - Route: Inhalation; Dose: 4413 ppm/30M

Special Remarks on Chronic Effects on Humans:
May cause adverse reproductive effects (fetoxicity). May affect genetic material.

Special Remarks on other Toxic Effects on Humans:
Acute Potential Health Effects: Skin: Corrosive. Causes severe skin irritation and burns. Eyes: Corrosive. Causes severe eye irritation/conjuntivitis, burns, corneal necrosis. Inhalation: May be fatal if inhaled. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract. Inhalation of hydrochloric acid fumes produces nose, throat, and larryngeal burning, and irritation, pain and inflammation, coughing, sneezing, choking sensation, hoarseness, laryngeal spasms, upper respiratory tract edema, chest pains, as well has headache, and palpitations. Inhalation of high concentrations can result in corrosive burns, necrosis of bronchial epithelium, constriction of the larynx and bronchi, nasospetal perforation, glottal closure, occur, particularly if exposure is prolonged. May affect the liver. Ingestion: May be fatal if swallowed. Causes irritation and burning, ulceration, or perforation of the gastrointestinal tract and resultant peritonitis, gastric hemorrhage and infection. Can also cause nausea, vomitting (with "coffee ground" emesis), diarrhea, thirst, difficulty swallowing, salivation, chills, fever, uneasiness, shock, strictures and stenosis (esophogeal, gastric, pyloric). May affect behavior (excitement), the cardiovascular system (weak rapid pulse, tachycardia), respiration (shallow respiration), and urinary system (kidneys- renal failure, nephritis). Acute exposure via inhalation or ingestion can also cause erosion of tooth enamel. Chronic Potential Health Effects: dyspnea, bronchitis. Chemical pneumonitis and pulmonary edema can also

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Class 8: Corrosive material

Identification: : Hydrochloric acid, solution UNNA: 1789 PG: II

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:
Connecticut hazardous material survey.: Hydrochloric acid Illinois toxic substances disclosure to employee act: Hydrochloric acid Illinois chemical safety act: Hydrochloric acid New York release reporting list: Hydrochloric acid Rhode Island RTK hazardous substances: Hydrochloric acid Pennsylvania RTK: Hydrochloric acid Minnesota: Hydrochloric acid Massachusetts RTK: Hydrochloric acid Massachusetts spill list: Hydrochloric acid New Jersey: Hydrochloric acid New Jersey spill list: Hydrochloric acid Louisiana RTK reporting list: Hydrochloric acid Louisiana spill reporting: Hydrochloric acid California Director's List of Hazardous Substances: Hydrochloric acid TSCA 8(b) inventory: Hydrochloric acid TSCA 4(a) proposed test rules: Hydrochloric acid SARA 302/304/311/312 extremely hazardous substances: Hydrochloric acid SARA 313 toxic chemical notification and release reporting: Hydrochloric acid CERCLA: Hazardous substances.: Hydrochloric acid: 5000 lbs. (2268 kg)

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):
CLASS D-2A: Material causing other toxic effects (VERY TOXIC). CLASS E: Corrosive liquid.

DSCL (EEC):
R34- Causes burns. R37- Irritating to respiratory system. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

HMIS (U.S.A.):

Health Hazard: 3

Fire Hazard: 0

Reactivity: 1

Personal Protection:

National Fire Protection Association (U.S.A.):

Health: 3

Flammability: 0

Reactivity: 1

Specific hazard:

Protective Equipment:
Gloves. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Face shield.

Section 16: Other Information

References:

-Hawley, G.G.. The Condensed Chemical Dictionary, 11e ed., New York N.Y., Van Nostrand Reinold, 1987. -SAX, N.I. Dangerous Properties of Indutrial Materials. Toronto, Van Nostrand Reinold, 6e ed. 1984. -The Sigma-Aldrich Library of Chemical Safety Data, Edition II. -Guide de la loi et du règlement sur le transport des marchandises dangeureuses au canada. Centre de conformité internatinal Ltée. 1986.

Other Special Considerations: Not available.

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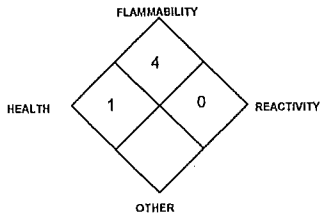
MATERIAL SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS Standards

NFPA RATING



PART I *What is the material and what do I need to know in an emergency?*

1. PRODUCT IDENTIFICATION

CHEMICAL NAME; CLASS: **ISOBUTYLENE - C_4H_8**
Document Number: Isobutylene

PRODUCT USE: For general analytical/synthetic chemical uses.

SUPPLIER/MANUFACTURER'S NAME: MESA Specialty Gases & Equipment
ADDRESS: 3619 Pendleton Avenue, Suite C
Santa Ana, CA 92704

BUSINESS PHONE: 1-714-434-7102
EMERGENCY PHONE: INFOTRAC: 1-800-535-5053

DATE OF PREPARATION: May 10, 1999

2. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	mole %	EXPOSURE LIMITS IN AIR					
			ACGIH		OSHA			
			TLV ppm	STEL ppm	PEL ppm	STEL ppm	IDLH ppm	OTHER
Isobutylene	115-11-7	> 99.0%	There are no specific exposure limits for Isobutylene. Isobutylene is a simple asphyxiant (SA). Oxygen levels should be maintained above 19.5%.					
Maximum Impurities		< 1.0%	None of the trace impurities in this mixture contribute significantly to the hazards associated with the product. All hazard information pertinent to this product has been provided in this Material Safety Data Sheet, per the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) and State equivalent standards.					

NE = Not Established C = Ceiling Limit See Section 16 for Definitions of Terms Used

NOTE: All WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-1993 format.

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: Isobutylene is a colorless, liquefied, flammable gas with an unpleasant odor similar to burning coal. The liquefied gas rapidly turns into a gas at standard atmospheric temperatures and pressures. Isobutylene is an asphyxiant and presents a significant health hazard by displacing the oxygen in the atmosphere. Rapid evaporation of liquid from the cylinder may cause frostbite. Both the liquid and gas pose a serious fire hazard when accidentally released. The gas is heavier than air and may travel to a source of ignition and flash back to a leak or open container. Flame or high temperature impinging on a localized area of a cylinder of Isobutylene can cause the cylinder to rupture without activating the cylinder's relief devices. Provide adequate fire protection during emergency response situations.

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: The most significant route of overexposure for this gas is by inhalation. The following paragraphs describe symptoms of exposure by route of exposure.

INHALATION: High concentrations of this gas can cause an oxygen-deficient environment. Individuals breathing such an atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses. Under some circumstances of overexposure, death may occur. Isobutylene also has some degree of anesthetic action and can be mildly irritating to the mucous membranes. The effects associated with various levels of oxygen are as follows:

CONCENTRATION	SYMPTOMS OF EXPOSURE
12-16% Oxygen:	Breathing and pulse rate increased, muscular coordination slightly disturbed.
10-14% Oxygen:	Emotional upset, abnormal fatigue, disturbed respiration.
6-10% Oxygen:	Nausea and vomiting, collapse or loss of consciousness.
Below 6%:	Convulsive movements, possible respiratory collapse, and death.

OTHER POTENTIAL HEALTH EFFECTS: Contact with liquid or rapidly expanding gases (which are released under high pressure) may cause frostbite. Symptoms of frostbite include change in skin color to white or grayish-yellow. The pain after such contact can quickly subside.

HAZARDOUS MATERIAL INFORMATION SYSTEM

HEALTH	(BLUE)	1
FLAMMABILITY	(RED)	4
REACTIVITY	(YELLOW)	0
PROTECTIVE EQUIPMENT		B

EYES	RESPIRATORY	HANDS	BODY
	See Section 8		See Section 8

For routine industrial applications

See Section 16 for Definition of Ratings

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in **Lay Terms**. Overexposure to Isobutylene may cause the following health effects:

ACUTE: The most significant hazard associated with this gas is inhalation of oxygen-deficient atmospheres. Symptoms of oxygen deficiency include respiratory difficulty, headache, dizziness, and nausea. At high concentrations, unconsciousness or death may occur. Contact with liquefied gas or rapidly expanding gases may cause frostbite.

CHRONIC: There are currently no known adverse health effects associated with chronic exposure to Isobutylene.

TARGET ORGANS: Respiratory system.

PART II *What should I do if a hazardous situation occurs?*

4. FIRST-AID MEASURES

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO ISOBUTYLENE WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus and Fire-Retardant Personal Protective equipment should be worn. Adequate fire protection must be provided during rescue situations.

4. FIRST-AID MEASURES (Continued)

Remove victim(s) to fresh air as quickly as possible. Trained personnel should administer supplemental oxygen and/or cardio-pulmonary resuscitation, if necessary. Only trained personnel should administer supplemental oxygen.

In case of frostbite, place the frostbitten part in warm water. DO NOT USE HOT WATER. If warm water is not available, or is impractical to use, wrap the affected parts gently in blankets. Alternatively, if the fingers or hands are frostbitten, place the affected area in the armpit. Encourage victim to gently exercise the affected part while being warmed. Seek immediate medical attention.

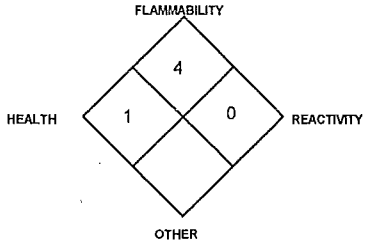
Victim(s) must be taken for medical attention. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to physician or other health professional with victim(s).

5. FIRE-FIGHTING MEASURES

FLASH POINT (Closed Cup): -10°C (< 14°F)
AUTOIGNITION TEMPERATURE: 465°C (869°F)
FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL): 1.8%
Upper (UEL): 9.6%

NFPA RATING



See Section 16 for Definition of Ratings

FIRE EXTINGUISHING MATERIALS: Extinguish Isobutylene fires by shutting off the source of the gas. Use water spray or a foam agent to cool fire-exposed containers, structures, and equipment.

UNUSUAL FIRE AND EXPLOSION HAZARDS: When involved in a fire, this material may ignite and produce toxic gases, including carbon monoxide and carbon dioxide.

DANGER! Fires impinging (direct flame) on the outside surface of unprotected pressure storage vessels of Isobutylene can be very dangerous. Direct flame exposure on the cylinder wall can cause an explosion either by BLEVE (Boiling Liquid Expanding Vapor Explosion), or by exothermic decomposition. This is a catastrophic failure of the vessel releasing the contents into a massive fireball and explosion. The resulting fire and explosion can result in severe equipment damage and personnel injury or death over a large area around the vessel. For massive fires in large areas, use unmanned hose holder or monitor nozzles; if this is not possible, withdraw from area and allow fire to burn.

Explosion Sensitivity to Mechanical Impact: Not sensitive.
Explosion Sensitivity to Static Discharge: Static discharge may cause Isobutylene to ignite explosively if released.

SPECIAL FIRE-FIGHTING PROCEDURES: Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. The best fire-fighting technique may be simply to let the burning gas escape from the pressurized cylinder, tank car, or pipeline. Stop the leak before extinguishing fire. If the fire is extinguished before the leak is sealed, the leaking gas could explosively re-ignite without warning and cause extensive damage, injury, or fatality. In this case, increase ventilation (in enclosed areas) to prevent flammable or explosive mixture formation. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Because of the potential for a BLEVE, evacuation of non-emergency personnel is essential. If water is not available for cooling or protection of vessel exposures, evacuate the area. Refer to the North American Emergency Response Guidebook for additional information. Other information for pre-planning can be found in the American Petroleum Institute Publications 2510 and 2510A.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a release, clear the affected area, protect people, and respond with trained personnel. Adequate fire protection must be provided. Minimum Personal Protective Equipment should be **Level B: fire-retardant protective clothing, gloves resistant to tears, and Self-Contained Breathing Apparatus.**

Use only non-sparking tools and equipment. Locate and seal the source of the leaking gas. Protect personnel attempting the shut off with water spray. Allow the gas to dissipate. Monitor the surrounding area for combustible gas levels and oxygen. Combustible gas concentration must be below 10% of the LEL (LEL = 1.8%) prior to entry. The atmosphere must have at least 19.5 percent oxygen before personnel can be allowed in the area without Self-Contained Breathing Apparatus. Attempt to close the main source valve prior to entering the area. If this does not stop the release (or if it is not possible to reach the valve), allow the gas to release in place or remove it to a safe area and allow the gas to be released there.

THIS IS AN EXTREMELY FLAMMABLE GAS. Protection of all personnel and the area must be maintained.

PART III *How can I prevent hazardous situations from occurring?*

7. HANDLING and STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: As with all chemicals, avoid getting Isobutylene IN YOU. Do not eat or drink while handling chemicals. Be aware of any signs of dizziness or fatigue; exposures to fatal concentrations of Isobutylene could occur without any significant warning symptoms.

STORAGE AND HANDLING PRACTICES: Cylinders should be stored in dry, well-ventilated areas away from sources of heat. Compressed gases can present significant safety hazards. Store containers away from heavily trafficked areas and emergency exits. Post "No Smoking or Open Flames" signs in storage or use areas.

SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS: Protect cylinders against physical damage. Store in cool, dry, well-ventilated area, away from sources of heat, ignition and direct sunlight. Do not allow area where cylinders are stored to exceed 52°C (125°F). Isolate from oxidizers such as oxygen, chlorine, or fluorine. Use a check valve or trap in the discharge line to prevent hazardous backflow. Post "No Smoking or Open Flame" signs in storage and use areas. Cylinders should be stored upright and be firmly secured to prevent falling or being knocked over. Cylinders can be stored in the open, but in such cases, should be protected against extremes of weather and from the dampness of the ground to prevent rusting. Never tamper with pressure relief devices in valves and cylinders. Electrical equipment should be non-sparking or explosion proof. The following rules are applicable to situations in which cylinders are being used:

Before Use: Move cylinders with a suitable hand truck. Do not drag, slide, or roll cylinders. Do not drop cylinders or permit them to strike each other. Secure cylinders firmly. Leave the valve protection cap, if provided, in place until cylinder is ready for use.

During Use: Use designated CGA fittings and other support equipment. Do not use adapters. Do not heat cylinder by any means to increase the discharge rate of the product from the cylinder. Use check valve or trap in discharge line to prevent hazardous backflow into the cylinder. Do not use oils or grease on gas-handling fittings or equipment.

After Use: Close main cylinder valve. Replace valve protection cap, if provided. Mark empty cylinders "EMPTY".

NOTE: Use only DOT or ASME code containers. Earth-ground and bond all lines and equipment associated with Isobutylene. Close valve after each use and when empty. Cylinders must not be recharged except by or with the consent of owner. For additional information refer to the Compressed Gas Association Pamphlet P-1, *Safe Handling of Compressed Gases in Containers*. Additionally, refer to CGA Bulletin SB-2 "*Oxygen Deficient Atmospheres*".

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures). Make certain that application equipment is locked and tagged-out safely. Purge gas handling equipment with inert gas (e.g., nitrogen) before attempting repairs.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation. Local exhaust ventilation is preferred, because it prevents Isobutylene dispersion into the work place by eliminating it at its source. If appropriate, install automatic monitoring equipment to detect the presence of potentially explosive air-gas mixtures and level of oxygen.

RESPIRATORY PROTECTION: Maintain oxygen levels above 19.5% in the workplace. Maintain level of gas below the level listed in Section 2 (Composition and Information on Ingredients). Use supplied air respiratory protection if oxygen levels are below 19.5% or during emergency response to a release of Isobutylene. If respiratory protection is required, follow the requirements of the Federal OSHA Respiratory Protection Standard (29 CFR 1910.134) or equivalent State standards.

EYE PROTECTION: Splash goggles or safety glasses, for protection from rapidly expanding gases and splashes of liquid Isobutylene.

HAND PROTECTION: Wear gloves resistant to tears when handling cylinders of Isobutylene. Use low-temperature protective gloves (e.g., Kevlar) when working with containers of liquid Isobutylene.

BODY PROTECTION: Use body protection appropriate for task. Transfer of large quantities under pressure may require protective equipment appropriate to protect employees from splashes of liquefied product, as well as fire retardant items.

9. PHYSICAL and CHEMICAL PROPERTIES

VAPOR DENSITY @ 21.1°C (70°F): 2.396 kg/m^3 (0.1496 lb/ft^3)
SPECIFIC GRAVITY (air = 1): 1.997
SOLUBILITY IN WATER: Insoluble.
EVAPORATION RATE (nBuAc = 1): Not applicable.
ODOR THRESHOLD: Not established.
COEFFICIENT WATER/OIL DISTRIBUTION: Not applicable.

pH: Not applicable.
FREEZING POINT: -140°C (-220.6°F)
BOILING POINT @ 1 atm: -6.9°C (19.6°F)
EXPANSION RATIO: Not applicable
VAPOR PRESSURE (psia): 39
SPECIFIC VOLUME (ft^3/lb): 6.7

APPEARANCE AND COLOR: Colorless gas with the unpleasant odor of burning coal. The liquid is also colorless and has the same unpleasant odor of burning coal.

HOW TO DETECT THIS SUBSTANCE (warning properties): There are no distinct warning properties. In terms of leak detection, fittings and joints can be painted with a soap solution to detect leaks, which will be indicated by a bubble formation.

10. STABILITY and REACTIVITY

STABILITY: Stable.

DECOMPOSITION PRODUCTS: When ignited in the presence of oxygen, this gas will burn to produce carbon monoxide and carbon dioxide.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Strong oxidizers (e.g., chlorine, bromine pentafluoride, oxygen, oxygen difluoride, and nitrogen trifluoride).

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Contact with incompatible materials and exposure to heat, sparks, and other sources of ignition. Cylinders exposed to high temperatures or direct flame can rupture or burst.

PART IV *Is there any other useful information about this material?*

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA: The following information is for pure Isobutylene.

ISOBUTYLENE:
LC_{50} (rat, inhalation) = 620 g/m^3/4 hours
LC_{50} (mouse, inhalation) = 415 g/m^3/2 hours

SUSPECTED CANCER AGENT: Isobutylene is not found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, CAL/OSHA, and therefore is neither considered to be nor suspected to be a cancer-causing agent by these agencies.

IRRITANCY OF PRODUCT: Isobutylene may be mildly irritating to the mucous membranes. In addition, contact with rapidly expanding gases can cause frostbite to exposed tissue.

SENSITIZATION TO THE PRODUCT: Isobutylene is not known to cause sensitization in humans.

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects of Isobutylene on the human reproductive system.

Mutagenicity: No mutagenic effects have been described for Isobutylene.
Embryotoxicity: No embryotoxic effects have been described for Isobutylene.
Teratogenicity: No teratogenic effects have been described for Isobutylene.
Reproductive Toxicity: No reproductive toxicity effects have been described for Isobutylene.

A mutagen is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generational lines. An embryotoxin is a chemical which causes damage to a developing embryo (i.e., within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A teratogen is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance which interferes in any way with the reproductive process.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Acute or chronic respiratory conditions may be aggravated by overexposure to Isobutylene.

11. TOXICOLOGICAL INFORMATION (Continued)

RECOMMENDATIONS TO PHYSICIANS: Administer oxygen, if necessary. Treat symptoms and eliminate exposure.

BIOLOGICAL EXPOSURE INDICES (BEIs): Currently, Biological Exposure Indices (BEIs) are not applicable for Isobutylene.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY: This gas will be dissipated rapidly in well-ventilated areas.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: Any adverse effect on animals would be related to oxygen-deficient environments. No adverse effect is anticipated to occur to plant life, except for frost produced in the presence of rapidly expanding gases. See Section 11, Toxicological Information, for additional information on effects on animals.

EFFECT OF CHEMICAL ON AQUATIC LIFE: No evidence is currently available on the effects of Isobutylene on aquatic life.

13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. Return cylinders with any residual product to MESA Specialty Gases & Equipment Do not dispose of locally.

14. TRANSPORTATION INFORMATION

THIS MATERIAL IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

For Isobutylene Gas:

PROPER SHIPPING NAME:	Isobutylene
HAZARD CLASS NUMBER and DESCRIPTION:	2.1 (Flammable Gas)
UN IDENTIFICATION NUMBER:	UN 1055
PACKING GROUP:	Not Applicable
DOT LABEL(S) REQUIRED:	Flammable Gas

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (1996): 115

Alternate Description:

PROPER SHIPPING NAME:	Petroleum gases, liquefied
HAZARD CLASS NUMBER and DESCRIPTION:	2.1 (Flammable Gas)
UN IDENTIFICATION NUMBER:	UN 1075
PACKING GROUP:	Not Applicable
DOT LABEL(S) REQUIRED:	Flammable Gas

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (1996): 115

MARINE POLLUTANT: Isobutylene is not classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B).

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: THIS MATERIAL IS CONSIDERED AS DANGEROUS GOODS. Use the above information for the preparation of Canadian Shipments.

15. REGULATORY INFORMATION

U.S. SARA REPORTING REQUIREMENTS: Isobutylene is not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA THRESHOLD PLANNING QUANTITY: Not applicable.

U.S. CERCLA REPORTABLE QUANTITY (RQ): Not applicable.

CANADIAN DSL/NDSL INVENTORY STATUS: Isobutylene is on the DSL Inventory.

U.S. TSCA INVENTORY STATUS: Isobutylene is listed on the TSCA Inventory.

15. REGULATORY INFORMATION (Continued)

OTHER U.S. FEDERAL REGULATIONS: Isobutylene is subject to the reporting requirements of Section 112(r) of the Clean Air Act. The Threshold Quantity for this gas is 10,000 lb. Depending on specific operations involving the use of Isobutylene, the regulations of the Process Safety Management of Highly Hazardous Chemicals may be applicable (29 CFR 1910.119). Under this regulation Isobutylene is not listed in Appendix A; however, any process that involves a flammable gas on-site, in one location, in quantities of 10,000 lb (4,553 kg) or greater is covered under this regulation unless it is used as a fuel.

U.S. STATE REGULATORY INFORMATION: Isobutylene is covered under specific State regulations, as denoted below:

Alaska - Designated Toxic and Hazardous Substances: Liquefied Petroleum Gas.
California - Permissible Exposure Limits for Chemical Contaminants: Liquefied Petroleum Gas.
Florida - Substance List: Isobutylene.
Illinois - Toxic Substance List: No.
Kansas - Section 302/313 List: No.
Massachusetts - Substance List: Isobutylene.
Michigan - Critical Materials Register: No.
Minnesota - List of Hazardous Substances: Liquefied Petroleum Gas.
Missouri - Employer Information/Toxic Substance List: No.
New Jersey - Right to Know Hazardous Substance List: Isobutylene.
North Dakota - List of Hazardous Chemicals, Reportable Quantities: No.
Pennsylvania - Hazardous Substance List: Isobutylene.
Rhode Island - Hazardous Substance List: Liquefied Petroleum Gas.
Texas - Hazardous Substance List: Liquefied Petroleum Gas.
West Virginia - Hazardous Substance List: Liquefied Petroleum Gas.
Wisconsin - Toxic and Hazardous Substances: Liquefied Petroleum Gas.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): Isobutylene is not on the California Proposition 65 lists.

LABELING:

DANGER:

FLAMMABLE LIQUID AND GAS UNDER PRESSURE.
CAN FORM EXPLOSIVE MIXTURES WITH AIR.
MAY CAUSE FROSTBITE.

Keep away from heat, flames, and sparks.
Store and use with adequate ventilation.
Cylinder temperature should not exceed 52°C (125°F).
Do not get liquid in eyes, on skin, or clothing.
Close valve after each use and when empty.
Use in accordance with the Material Safety Data Sheet.

FIRST AID:

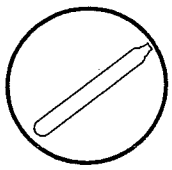
IF INHALED, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

IN CASE OF FROSTBITE, obtain immediate medical attention.

DO NOT REMOVE THIS PRODUCT LABEL.

CANADIAN WHMIS SYMBOLS:

Class A: Compressed Gas
Class B1: Flammable Gas



16. OTHER INFORMATION

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. MESA Specialty Gases & Equipment assumes no responsibility for injury to the vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, MESA Specialty Gases & Equipment assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

DEFINITIONS OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. Some of these which are commonly used include the following:

CAS #: This is the Chemical Abstract Service Number which uniquely identifies each constituent. It is used for computer-related searching.

EXPOSURE LIMITS IN AIR:
ACGIH - American Conference of Governmental Industrial Hygienists, a professional association which establishes exposure limits. **TLV** - Threshold Limit Value - an airborne concentration of a substance which represents conditions under which it is generally believed that nearly all workers may be repeatedly exposed without adverse effect. The duration must be considered, including the 8-hour Time Weighted Average (**TWA**), the 15-minute Short Term Exposure Limit, and the instantaneous Ceiling Level (**C**). Skin absorption effects must also be considered.
OSHA - U.S. Occupational Safety and Health Administration. **PEL** - Permissible Exposure Limit - This exposure value means exactly the same as a TLV, except that it is enforceable by OSHA. The OSHA Permissible Exposure Limits are based in the 1989 PELs and the June, 1993 Air Contaminants Rule (Federal Register: 58: 35338-35351 and 58: 40191). Both the current PELs and the vacated PELs are indicated. The phrase, "Vacated 1989 PEL," is placed next to the PEL which was vacated by Court Order.
IDLH - Immediately Dangerous to Life and Health - This level represents a concentration from which one can escape within 30-minutes without suffering escape-preventing or permanent injury. The **DFG - MAK** is the Republic of Germany's Maximum Exposure Level, similar to the U.S. PEL. **NIOSH** is the National Institute of Occupational Safety and Health, which is the research arm of the U.S. Occupational Safety and Health Administration (**OSHA**). NIOSH issues exposure guidelines called Recommended Exposure Levels (**RELs**). When no exposure guidelines are established, an entry of **NE** is made for reference.

HAZARD RATINGS:
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: Health Hazard: **0** (minimal acute or chronic exposure hazard); **1** (slight acute or chronic exposure hazard); **2** (moderate acute or significant chronic exposure hazard); **3** (severe acute exposure hazard; onetime overexposure can result in permanent injury and may be fatal); **4** (extreme acute exposure hazard; onetime overexposure can be fatal). Flammability Hazard: **0** (minimal hazard); **1** (materials that require substantial pre-heating before burning); **2** (combustible liquid or solids; liquids with a flash point of 38-93°C [100-200°F]); **3** (Class IB and IC flammable liquids with flash points below 38°C [100°F]); **4** (Class IA flammable liquids with flash points below 23°C [73°F] and boiling points below 38°C [100°F]. Reactivity Hazard: **0** (normally stable); **1** (material that can become unstable at elevated temperatures or which can react slightly with water); **2** (materials that are unstable but do not detonate or which can react violently with water); **3** (materials that can detonate when initiated or which can react explosively with water); **4** (materials that can detonate at normal temperatures or pressures).
NATIONAL FIRE PROTECTION ASSOCIATION: Health Hazard: **0** (material that on exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials); **1** (materials that on exposure under fire conditions could cause irritation or minor residual injury); **2** (materials that on intense or continued exposure under fire conditions could cause temporary incapacitation or possible residual injury); **3** (materials that can on short exposure could cause serious temporary or residual injury); **4** (materials that under very short exposure causes death or major residual injury).

NATIONAL FIRE PROTECTION ASSOCIATION (Continued): Flammability Hazard and Reactivity Hazard: Refer to definitions for "Hazardous Materials Identification System".

FLAMMABILITY LIMITS IN AIR:
Much of the information related to fire and explosion is derived from the National Fire Protection Association (**NFPA**). Flash Point - Minimum temperature at which a liquid gives off sufficient vapors to form an ignitable mixture with air. Autoignition Temperature: The minimum temperature required to initiate combustion in air with no other source of ignition. LEL - the lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source. UEL - the highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source.

TOXICOLOGICAL INFORMATION:
Possible health hazards as derived from human data, animal studies, or from the results of studies with similar compounds are presented. Definitions of some terms used in this section are: **LD_{50}** - Lethal Dose (solids & liquids) which kills 50% of the exposed animals; **LC_{50}** - Lethal Concentration (gases) which kills 50% of the exposed animals; **ppm** concentration expressed in parts of material per million parts of air or water; **mg/m^3** concentration expressed in weight of substance per volume of air; **mg/kg** quantity of material, by weight, administered to a test subject, based on their body weight in kg. Data from several sources are used to evaluate the cancer-causing potential of the material. The sources are: **IARC** - the International Agency for Research on Cancer; **NTP** - the National Toxicology Program, **RTECS** - the Registry of Toxic Effects of Chemical Substances, **OSHA** and **CAL/OSHA**. IARC and NTP rate chemicals on a scale of decreasing potential to cause human cancer with rankings from 1 to 4. Subrankings (2A, 2B, etc.) are also used. Other measures of toxicity include **TDLo**, the lowest dose to cause a symptom and **TCLo** the lowest concentration to cause a symptom; **TDo**, **LDLo**, and **LDo**, or **TC**, **TCo**, **LCLo**, and **LCo**, the lowest dose (or concentration) to cause lethal or toxic effects. **BEI** - Biological Exposure Indices, represent the levels of determinants which are most likely to be observed in specimens collected from a healthy worker who has been exposed to chemicals to the same extent as a worker with inhalation exposure to the TLV. Ecological Information: EC is the effect concentration in water.

REGULATORY INFORMATION:
This section explains the impact of various laws and regulations on the material. **EPA** is the U.S. Environmental Protection Agency. **WHMIS** is the Canadian Workplace Hazardous Materials Information System. **DOT** and **TC** are the U.S. Department of Transportation and the Transport Canada, respectively. Superfund Amendments and Reauthorization Act (**SARA**); the Canadian Domestic/Non-Domestic Substances List (**DSL/NDSL**); the U.S. Toxic Substance Control Act (**TSCA**); Marine Pollutant status according to the **DOT**; the Comprehensive Environmental Response, Compensation, and Liability Act (**CERCLA or Superfund**); and various state regulations.

Manufactured for

INDUSTRIAL SCIENTIFIC CORPORATION

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Oakdale, PA 15071-1500

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TOLL-FREE 800-DETECTS
Fax (412) 788-8353

MATERIAL SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS Standards

1. PRODUCT IDENTIFICATION

CHEMICAL NAME; CLASS: NON-FLAMMABLE GAS MIXTURE

Containing One or More of the Following Components in a Nitrogen Balance Gas: Oxygen, 0.0015-23.5%; Propane, 0-1.1%; n-Pentane, 0-0.75%; n-Hexane; 0-0.48%; Carbon Monoxide, 0.0005-1.0%; Hydrogen Sulfide, 0.001-0.025%

NOTE: MIXTURES COMPRISED OF AN AIR BALANCE GAS CONTAIN BETWEEN 19.5-23.5% OXYGEN.

SYNONYMS: Not Applicable

CHEMICAL FAMILY NAME: Not Applicable

FORMULA: Not Applicable

Document Number: 50016 (Replaces ISC MSDS No.1810-2187, 1810-2343, 1810-3366, 1810-3937 1810-7219, 1810-7599, 1810-6179)

Note: The Material Safety Data Sheet is for this gas mixture supplied in cylinders with 33 cubic feet (935 liters) or less gas capacity (DOT - 39 cylinders). This MSDS has been developed for various gas mixtures with the composition of components within the ranges listed in Section 2 (Composition and Information on Ingredients). Refer to the product label for information on the actual composition of the product.

PRODUCT USE:	Calibration of Monitoring and Research Equipment
SUPPLIER/MANUFACTURER'S NAME:	CALGAZ
ADDRESS:	821 Chesapeake Drive Cambridge, MD 21613
EMERGENCY PHONE:	CHEMTREC: 1-800-424-9300
BUSINESS PHONE:	1-410-228-6400
General MSDS Information	1-713/868-0440
Fax on Demand:	1-800/231-1366

2. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	mole %	EXPOSURE LIMITS IN AIR					
			ACGIHTLV		OSHA		IDLH	OTHER
			TWA ppm	STEL ppm	TWA ppm	STEL ppm	ppm	ppm
Oxygen	7782-44-7	0.0015 - 23.5%	There are no specific exposure limits for Oxygen. Oxygen levels should be maintained above 19.5%.					
Propane	74-98-6	0 - 1.1%	2500	NE	1000	NE	2100	NIOSH REL: 1000 DFG MAK: 1000 ppm
n-Pentane	109-66-0	0 - 0.75%	600	750	1000 600 (Vacated 1989 PEL)	750 (Vacated 1989 PEL)	1500	NIOSH REL: TWA = 120 STEL = 610 (ceiling) 15 minutes DFG MAKs: TWA =1000 PEAK = 2•MAK, 60 min., momentary value
n-Hexane	110-54-3	0 - 0.48%	50	NE	500 50 (Vacated 1989 PEL)	NE	1100	NIOSH REL: 50 DFG MAK: 50
Hydrogen Sulfide	7783-06-4	0.001-0.025 %	10 NIC = 5	15 NIC = 5	10 (Vacated 1989 PEL)	20 (ceiling), 50 (10 min. peak, once per shift) 15 (Vacated 1989 PEL)	100	NIOSH REL: STEL = 10 (ceiling), 10 minutes DFG MAKs: TWA = 10 PEAK = 2•MAK, 10 min., momentary value
Carbon Monoxide	630-08-0	0.0005 - 1.0%	25	NE	50 35 (Vacated 1989 PEL)	200 (ceiling) (Vacated 1989 PEL)	1200	NIOSH RELs: TWA = 35 STEL = 200 ceiling DFG MAKs: TWA = 30 PEAK = 2•MAK, 15 min., average value, 1 hr interval DFG MAK Pregnancy Risk Classification: B
Nitrogen	7727-37-9	Balance	There are no specific exposure limits for Nitrogen. Nitrogen is a simple asphyxiant (SA). Oxygen levels should be maintained above 19.5%.					

NE = Not Established. NIC = Notice of Intended Change See Section 16 for Definitions of Terms Used.

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-1998 format. This gas mixture has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: This gas mixture is a colorless gas which has a rotten-egg odor (due to the presence of Hydrogen Sulfide). The odor cannot be relied on as an adequate warning of the presence of this gas mixture, because olfactory fatigue occurs after over-exposure to Hydrogen Sulfide. Hydrogen Sulfide and Carbon Monoxide (another component of this gas mixture) are toxic to humans in relatively low concentrations. Over-exposure to this gas mixture can cause skin or eye irritation, nausea, dizziness, headaches, collapse, unconsciousness, coma, and death. The Propane, n-Pentane, and n-Hexane components can cause anesthetic or peripheral neuropathy effects. Additionally, releases of this gas mixture may produce oxygen-deficient atmospheres (especially in small confined spaces or other poorly-ventilated environments); individuals in such atmospheres may be asphyxiated.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM

HEALTH HAZARD	(BLUE)	3
FLAMMABILITY HAZARD	(RED)	0
PHYSICAL HAZARD	(YELLOW)	0

PROTECTIVE EQUIPMENT

EYES	RESPIRATORY	HANDS	BODY
See Section 8			

For Routine Industrial Use and Handling Applications

SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE: The most significant route of over-exposure for this gas mixture is by inhalation.

INHALATION: Due to the small size of an individual cylinder of this gas mixture, no unusual health effects from over-exposure to the product are anticipated under routine circumstances of use. A significant health hazard associated with this gas mixture is the potential of inhalation of Hydrogen Sulfide, a component of this gas mixture. Such over-exposures may occur if this gas mixture is used in a confined space or other poorly-ventilated area. Over-exposures to Hydrogen Sulfide can cause dizziness, headache, and nausea. Exposure to this component can result in respiratory arrest, coma, or unconsciousness. Continuous inhalation of low concentrations of Hydrogen Sulfide may cause olfactory fatigue, so that the odor is no longer an effective warning of the presence of this gas. A summary of exposure concentrations and observed effects are as follows

CONCENTRATION OF HYDROGEN SULFIDE	OBSERVED EFFECT
0.3-30 ppm	Odor is obvious and unpleasant.
50 ppm	Eye irritation. Dryness and irritation of nose, throat.
Slightly higher than 50 ppm	Irritation of the respiratory system.
100-150 ppm	Temporary loss of smell.
200-250 ppm	Headache, vomiting nausea. Prolonged exposure may lead to lung damage. Exposures of 4-8 hours can be fatal.
300-500	Swifter onset of symptoms. Death occurs in 1-4 hours.
500 ppm	Headache, excitement, staggering, and stomach ache after brief exposure. Death occurs within 0.5 - 1 hour of exposure.
> 600 ppm	Rapid onset of unconsciousness, coma, death.
> 1000 ppm	Immediate respiratory arrest.
NOTE:	This gas mixture contains a maximum of 250 ppm Hydrogen Sulfide. The higher concentration values here are presented to delineate the complete health effects which have been observed for humans after exposure to Hydrogen Sulfide.

Inhalation over-exposures to atmospheres containing more than the Threshold Limit Value of Carbon Monoxide (25 ppm), another component of this gas mixture, can result in serious health consequences. Carbon Monoxide is classified as a chemical asphyxiant, producing a toxic action by combining with the hemoglobin of the blood and replacing the available oxygen. Through this replacement, the body is deprived of the required oxygen, and asphyxiation occurs.

Since the affinity of Carbon Monoxide for hemoglobin is about 200-300 times that of oxygen, only a small amount of Carbon Monoxide will cause a toxic reaction to occur. Carbon Monoxide exposures in excess of 50 ppm will produce symptoms of poisoning if breathed for a sufficiently long time. If this gas mixture is released in a small, poorly ventilated area (i.e. an enclosed or confined space), symptoms which may develop include the following:

CONCENTRATION OF CARBON MONOXIDE	OBSERVED EFFECT
All exposure levels: ..	Over-exposure to Carbon Monoxide can be indicated by the lips and fingernails turning bright red.
200 ppm:	Slight symptoms (i.e. headache) after several hours of exposure.
400 ppm:	Headache and discomfort experienced within 2-3 hours of exposure.
1,000 -2000 ppm:	Within 30 minutes, slight palpitations of the heart occurs. Within 1.5 hours, there is a tendency to stagger.
200-2500 ppm:	Within 2 hours, there is mental confusion, headaches, and nausea. Unconsciousness within 30 minutes.
> 2500 ppm:	Potential for collapse and death before warning symptoms.

Another hazard associated with this gas mixture is the potential for anesthetic and peripheral neuropathy effects after inhalation over-exposures to the Propane, n-Pentane and n-Hexane components of this gas mixture. Specific human over-exposure data are available for n-Pentane and n-Hexane, as follows:

CONCENTRATION OF n-PENTANE	OBSERVED EFFECT
Brief (10 minute) up to 5,000 ppm:	No symptoms.
Higher than 5,000 ppm:	Exhilaration, dizziness and headache can occur.
Long term:	Can cause chronic neurological disorder causing damage to the nerves in the hands and feet (peripheral neuropathy)

CONCENTRATION OF n-HEXANE	OBSERVED EFFECT
Brief (10 minute) at 1,500 ppm:	Irritation of the respiratory tract, nausea and headache.
5000 ppm:	Dizziness and drowsiness can occur.
Long term at 500 ppm:	Can affect the nerves in the arms and legs. Effects include numbing or tingling sensations in the fingers and toes, tiredness, muscle weakness, cramps and spasms in the leg, difficulty in holding objects or walking, abdominal pains, loss of appetite, weight loss. More serious exposures can cause damage to the nerves in the hands and feet (peripheral neuropathy).
Eyes and Vision:	Abnormal color perception and pigment changes in the eyes have been reported among industrial workers exposed to 423-1280 ppm for 5 years or more.
Blood Cells:	Mild forms of anemia have also been associated with exposure to hexane. These are of temporary nature.

Additionally, if mixtures of this gas mixture contain less than 19.5% Oxygen and are released in a small, poorly ventilated area (i.e. an enclosed or confined space), an oxygen-deficient environment may occur. Individuals breathing such an atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses. Under some circumstances of over-exposure, death may occur. The following effects associated with various levels of oxygen are as follows:

CONCENTRATION OF OXYGEN	OBSERVED EFFECT
12-16% Oxygen:	Breathing and pulse rate increased, muscular coordination slightly disturbed.
10-14% Oxygen:	Emotional upset, abnormal fatigue, disturbed respiration.
6-10% Oxygen:	Nausea, vomiting, collapse, or loss of consciousness.
Below 6%:	Convulsive movements, possible respiratory collapse, and death.

SKIN and EYE CONTACT: The Hydrogen Sulfide component of this gas mixture may be irritating to the skin. Inflammation and irritation of the eyes can occur at very low airborne concentration of Hydrogen Sulfide (less than 10 ppm). Exposure over several hours may result in “gas eyes” or “sore eyes” with symptoms of scratchiness, irritation, tearing and burning. Above 50 ppm of Hydrogen Sulfide, there is an intense tearing, blurring of vision, and pain when looking at light. Over-exposed individuals may see rings around bright lights. Most symptoms disappear when exposure ceases. However, in serious cases, the eye can be permanently damaged.

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms. Over-exposure to this gas mixture may cause the following health effects:

ACUTE: Due to the small size of the individual cylinder of this gas mixture, no unusual health effects from exposure to the product are anticipated under routine circumstances of use. However, the Hydrogen Sulfide and Carbon Monoxide components of this gas mixture are toxic to humans. Over-exposure to this gas mixture can cause nausea, dizziness, headaches, collapse, unconsciousness, coma, and death. Due to the presence of Hydrogen Sulfide, over-exposures to this gas mixture can also irritate the skin and eyes; severe eye contamination can result in blindness.

Inhalation over-exposures to Propane, n-Pentane, and n-Hexane can cause anesthetic effects and motor neuropathy (i.e. pain and tingling in feet and hands).

3. HAZARD IDENTIFICATION (Continued)

CHRONIC: Abnormal color perception and pigment changes in the eyes have been reported among persons exposed to 420 -1300 ppm of n-Hexane for five years. Additionally, long-term exposure to low levels of n-Hexane or n-Pentane can affect the nerves in the arms and legs. Effects include numbing or tingling sensation, tiredness, cramps, spasms in legs, difficulty holding objects or walking, loss of appetite and weight loss. Pentane isomers, such as n-Pentane, and Propane can cause sensitization of the heart to epinephrine. Refer to Section 11 (Toxicology Information) for additional information on the components of this gas mixture.

TARGET ORGANS: ACUTE: Respiratory system, blood system, central nervous system, cardiovascular system. CHRONIC: Reproductive system, cardiovascular system.

4. FIRST-AID MEASURES

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO THIS GAS MIXTURE WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus must be worn.

No unusual health effects are anticipated after exposure to this gas mixture, due to the small cylinder size. If any adverse symptom develops after over-exposure to this gas mixture, remove victim(s) to fresh air as quickly as possible. Only trained personnel should administer supplemental oxygen and/or cardio-pulmonary resuscitation if necessary.

Victim(s) who experience any adverse effect after over-exposure to this gas mixture must be taken for medical attention. Rescuers should be taken for medical attention if necessary. Take a copy of the label and the MSDS to physician or other health professional with victim(s).

SKIN EXPOSURE: If irritation of the skin develops after exposure to this gas mixture, immediately begin decontamination with running water. Minimum flushing is for 15 minutes. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Victim must seek immediate medical attention.

EYE EXPOSURE: If irritation of the eye develops after exposure to this gas mixture, open victim's eyes while under gentle running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. Seek medical assistance immediately, preferably an ophthalmologist.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing respiratory conditions may be aggravated by over-exposure to this gas mixture. Carbon Monoxide, a component of this gas mixture, can aggravate some diseases of the cardiovascular system, such as coronary artery disease and angina pectoris. Because of the presence of Hydrogen Sulfide, n-Hexane or n-Pentane in this gas mixture, central nervous system conditions, eye disorders, or skin problems may be aggravated by over-exposure to this gas mixture.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate over-exposure. Hyperbaric oxygen is the most efficient antidote to Carbon Monoxide poisoning, the optimum range being 2-2.5 atm. A special mask, or, preferably, a compression chamber to utilize oxygen at these pressures is required. Avoid administering stimulant drugs. Be observant for initial signs of pulmonary edema in the event of severe inhalation over-exposures.

5. FIRE-FIGHTING MEASURES

FLASH POINT: Not applicable.

AUTOIGNITION TEMPERATURE: Not applicable.

FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL): Not applicable.

Upper (UEL): Not applicable.

FIRE EXTINGUISHING MATERIALS: Non-flammable gas mixture. Use extinguishing media appropriate for surrounding fire.

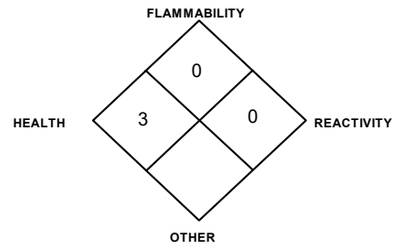
UNUSUAL FIRE AND EXPLOSION HAZARDS: This gas mixture contains toxic gases, Hydrogen Sulfide and Carbon Monoxide, and presents an extreme health hazard to firefighters. This gas mixture is not flammable; however, containers, when involved in fire, may rupture or burst in the heat of the fire.

Explosion Sensitivity to Mechanical Impact: Not Sensitive.

Explosion Sensitivity to Static Discharge: Not Sensitive.

SPECIAL FIRE-FIGHTING PROCEDURES: Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment.

NFPA RATING



6. ACCIDENTAL RELEASE MEASURES

LEAK RESPONSE: Due to the small size and content of the cylinder, an accidental release of this gas mixture presents significantly less risk of over-exposure to Hydrogen Sulfide and Carbon Monoxide, the toxic components of this gas mixture, and other safety hazards related to the remaining components of this gas mixture, than a similar release from a larger cylinder. However, as with any chemical release, extreme caution must be used during emergency response procedures. In the event of a release in which the atmosphere is unknown, and in which other chemicals are potentially involved, evacuate immediate area. Such releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a leak, clear the affected area, protect people, and respond with trained personnel.

For emergency disposal, secure the cylinder and slowly discharge the gas to the atmosphere in a well-ventilated area or outdoors. Allow the gas mixture to dissipate. If necessary, monitor the surrounding area (and the original area of the release) for Hydrogen Sulfide, Carbon Monoxide, and Oxygen. Hydrogen Sulfide and Carbon Monoxide level must be below exposure level listed in Section 2 (Composition and Information on Ingredients) and Oxygen levels must be above 19.5% before non-emergency personnel are allowed to re-enter area.

If leaking incidentally from the cylinder, contact your supplier.

7. HANDLING and USE

WORK PRACTICES AND HYGIENE PRACTICES: Be aware of any signs of dizziness or fatigue; exposures to fatal concentrations of this gas mixture could occur without any significant warning symptoms, due to olfactory fatigue or oxygen deficiency. Do not attempt to repair, adjust, or in any other way modify cylinders containing a gas mixture with Hydrogen Sulfide or Carbon Monoxide. If there is a malfunction or another type of operational problem, contact nearest distributor immediately. Eye wash stations/safety showers should be near areas where this gas mixture is used or stored. All work operations should be monitored in such a way that emergency personnel can be immediately contacted in the event of a release. All work practices should minimize releases of Hydrogen Sulfide and Carbon Monoxide-containing gas mixtures.

STORAGE AND HANDLING PRACTICES: Cylinders should be firmly secured to prevent falling or being knocked-over. Cylinders must be protected from the environment, and preferably kept at room temperature (approximately 21°C, 70°F). Cylinders should be stored in dry, well-ventilated areas, away from sources of heat, ignition, and direct sunlight. Protect cylinders against physical damage.

Full and empty cylinders should be segregated. Use a first-in, first-out inventory system to prevent full containers from being stored for long periods of time. These cylinders are not refillable. **WARNING! Do not refill DOT 39 cylinders. To do so may cause personal injury or property damage.**

SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS: WARNING! Compressed gases can present significant safety hazards. During cylinder use, use equipment designed for these specific cylinders. Ensure all lines and equipment are rated for proper service pressure.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures). Make certain that application equipment is locked and tagged-out safely. Always use product in areas where adequate ventilation is provided.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

VENTILATION AND ENGINEERING CONTROLS: No special ventilation systems or engineering controls are needed under normal circumstances of use. As with all chemicals, use this gas mixture in well-ventilated areas. If this gas mixture is used in a poorly-ventilated area, install automatic monitoring equipment to detect the levels of Oxygen, Hydrogen Sulfide, and Carbon Monoxide.

RESPIRATORY PROTECTION: No special respiratory protection is required under normal circumstances of use. Use supplied air respiratory protection if Carbon Monoxide levels exceed the exposure levels given in Section 2 (Composition and Information on Ingredients) or if oxygen levels are below 19.5%, or if either level is unknown during emergency response to a release of this gas mixture. If respiratory protection is required for emergency response to this gas mixture, follow the requirements of the Federal OSHA Respiratory Protection Standard (29 CFR 1910.134) or equivalent State standards. The following NIOSH respiratory protection recommendations for Hydrogen Sulfide and Carbon Monoxide are provided for further information.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION (Continued)

NIOSH/OSHA RECOMMENDATIONS FOR HYDROGEN SULFIDE CONCENTRATIONS IN AIR:

Up to 100 ppm: Powered air-purifying respirator with cartridge(s) to protect against hydrogen sulfide; or gas mask with canister to protect against hydrogen sulfide; or SAR; or full-facepiece SCBA.

Emergency or Planned Entry into Unknown Concentration or IDLH Conditions: Positive pressure, full-facepiece SCBA; or positive pressure, full-facepiece SAR with an auxiliary positive pressure SCBA.

Escape: Gas mask with canister to protect against hydrogen sulfide; or escape-type SCBA

NOTE: The IDLH concentration for Hydrogen Sulfide is 100 ppm.

NIOSH/OSHA RECOMMENDATIONS FOR CARBON MONOXIDE CONCENTRATIONS IN AIR:

Up to 350 ppm Supplied Air Respirator (SAR)

Up to 875 ppm Supplied Air Respirator (SAR) operated in a continuous flow mode.

Up to 1200 ppm Gas mask with canister to protect against carbon monoxide; or full-facepiece SCBA; or full-facepiece Supplied Air Respirator (SAR).

Emergency or Planned Entry into Unknown Concentration or IDLH Conditions: Positive pressure, full-facepiece SCBA; or positive pressure, full-facepiece Supplied Air Respirator (SAR) with an auxiliary positive pressure SCBA.

Escape: Gas mask with canister to protect against carbon monoxide; or escape-type SCBA.

NOTE: End of Service Life Indicator (ESLI) required for gas masks.

EYE PROTECTION: Safety glasses. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.

HAND PROTECTION: No special protection is needed under normal circumstances of use. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

BODY PROTECTION: No special protection is needed under normal circumstances of use. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

9. PHYSICAL and CHEMICAL PROPERTIES

The following information is for Nitrogen, the main component of this gas mixture.

GAS DENSITY @ 32°F (0°C) and 1 atm: 0.072 lbs/ ft^3 (1.153 kg/m^3)

FREEZING/MELTING POINT @ 10 psig: -210°C (-345.8°F)

BOILING POINT: -195.8°C (-320.4°F)

SPECIFIC GRAVITY (air = 1) @ 70°F (21.1°C): 0.906

pH: Not applicable.

SOLUBILITY IN WATER vol/vol @ 32°F (0°C) and 1 atm: 0.023

MOLECULAR WEIGHT: 28.01

EVAPORATION RATE (nBuAc = 1): Not applicable.

EXPANSION RATIO: Not applicable.

ODOR THRESHOLD: Not applicable.

SPECIFIC VOLUME (ft^3/lb): 13.8

VAPOR PRESSURE @ 70°F (21.1°C) psig: Not applicable.

COEFFICIENT WATER/OIL DISTRIBUTION: Not applicable.

The following information is for the gas mixture.

APPEARANCE AND COLOR: This gas mixture is a colorless gas which has an rotten egg-like odor, due to the presence of Hydrogen Sulfide.

HOW TO DETECT THIS SUBSTANCE (warning properties): Continuous inhalation of low concentrations of Hydrogen Sulfide (a component of this gas mixture) may cause olfactory fatigue, so that there are no distinct warning properties. In terms of leak detection, fittings and joints can be painted with a soap solution to detect leaks, which will be indicated by a bubble formation. Wet lead acetate paper can be used for leak detection. The paper turns black in the presence of Hydrogen Sulfide. Cadmium chloride solutions can also be used. Cadmium solutions will turn yellow upon contact with Hydrogen Sulfide.

10. STABILITY and REACTIVITY

STABILITY: Normally stable in gaseous state.

DECOMPOSITION PRODUCTS: The thermal decomposition products of Propane, n-Hexane, and n-Pentane include carbon oxides. The decomposition products of Hydrogen Sulfide include water and sulfur oxides. The other components of this gas mixture do not decompose, per se, but can react with other compounds in the heat of a fire.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Titanium will burn in Nitrogen (the main component of this gas mixture). Lithium reacts slowly with Nitrogen at ambient temperatures. Components of this gas mixture (Hydrogen Sulfide, Propane, n-Pentane, n-Hexane) are also incompatible with strong oxidizers (i.e. chlorine, bromine pentafluoride, oxygen, oxygen difluoride, and nitrogen trifluoride). Carbon Monoxide is mildly corrosive to nickel and iron (especially at high temperatures and pressures). Hydrogen Sulfide is corrosive to most metals, because it reacts with these substances to form metal sulfides.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Contact with incompatible materials. Cylinders exposed to high temperatures or direct flame can rupture or burst.

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA: The following toxicology data are available for the components of this gas mixture:

NITROGEN: There are no specific toxicology data for Nitrogen. Nitrogen is a simple asphyxiant, which acts to displace oxygen in the

n-PENTANE:

LD_{50} (intravenous, mouse) = 446 mg/kg.

LC_{50} (inhalation, rat) = 364 g/m^3/4 hours

LCLo (inhalation, mouse) = 325 g/m^3/2 hours

n-HEXANE:

Eye, rabbit = 10 mg/ mild

TCLo (inhalation, rat) = 10,000 ppm/7 hr.

TCLo (inhalation, rat) = 5000 ppm/20 hours; teratogenic effects

LD50 (oral, rat) = 28710 mg/kg

LDLo (intraperitoneal, rat) = 9100 mg/kg

LCLo (inhalation, mouse) = 120,000 mg/kg

LD50 (rat, oral): 28,710 mg/kg

ACUTE INHALATION (mouse): 30,000 ppm, narcosis within 30 to 60 minutes; 35,000-40,000 ppm, convulsions and death.

DERMAL (rabbit): 2 to 5 ml/kg for 4 hours resulted in restlessness and discoordination,; death occurred at 5 ml/kg.

n-HEXANE (continued):

CHRONIC INHALATION (rat): 400-600 ppm, 5 days/week, peripheral neuropathy in 45 days; 850 ppm for 143 days, loss of weight and degeneration of the sciatic nerve. (mouse): 250 ppm, peripheral neuropathy within 7 months; no effects at 100 ppm.

PROPANE:

Long-Term Inhalation: No toxicity or abnormalities were observed when monkeys were exposed to approximately 750 ppm for 90 days. Similar results were obtained when monkeys were exposed to an aerosol spray containing 65% propane and isobutane.

CARBON MONOXIDE:

TCLo (inhalation, mouse) = 65 ppm/24 hours (7-18 preg): rep. effects

TCLo (inhalation, mouse) = 8 pph/1 hour (female 8D post): ter. effects

CARBON MONOXIDE (continued):

TCLo (inhalation, human) = 600 mg/m^3/10 minutes

LCLo (inhalation, man) = 4000 ppm/30 minutes

TCLo (inhalation, man) = 650 ppm/45 minutes: central nervous system and blood system effects.

LCLo (inhalation, human) = 5000 ppm/5 minutes

LCLo (inhalation, dog) = 4000 ppm/46 minutes

LCLo (inhalation, rabbit) = 4000 ppm

LC_{50} (inhalation, rat) = 1811 ppm/4 hours

LC_{50} (inhalation, guinea pig) = 2450 ppm/4 hours

LC_{50} (inhalation, guinea pig) = 5718 ppm/4 hours

LCLo (inhalation, mammal) = 5000 ppm/5 minutes

LD_{50} (inhalation, wild bird) = 1334 ppm

HYDROGEN SULFIDE:

LCLo (inhalation, human) = 600 ppm/30 minutes

LDLO (inhalation, man) = 5.7 mg/kg; central nervous system, pulmonary effects

HYDROGEN SULFIDE (continued):

LCLo (inhalation, human) = 800 ppm/5 minutes

LC_{50} (inhalation, rat) = 444 ppm

HYDROGEN SULFIDE (continued):

LC_{50} (inhalation, mouse) = 673 ppm/1 hour

LCLo (inhalation, mammal) = 800 ppm/5 minutes

SUSPECTED CANCER AGENT: The components of this gas mixture are not found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, and IARC; therefore, they are not considered to be, nor suspected to be, cancer-causing agents by these agencies.

IRRITANCY OF PRODUCT: The Hydrogen Sulfide component of this gas mixture, is irritating to the eyes, and may be irritating to the skin.

SENSITIZATION OF PRODUCT: The components of this gas mixture are not known to be skin or respiratory sensitizers. Pentane isomers (i.e. n-Pentane) and Propane can cause cardiac sensitization to epinephrine.

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects of this gas mixture on the human reproductive system.

Mutagenicity: No mutagenicity effects have been described for the components of this gas mixture.

Embryotoxicity: This gas mixture contains components that may cause embryotoxic effects in humans; however, due to the small total amount of the components, embryotoxic effects are not expected to occur.

Teratogenicity: This gas mixture is not expected to cause teratogenic effects in humans due to the small cylinder size and small total amount of all components. The Carbon Monoxide component of this gas mixture which exists up to 1%, can cause teratogenic effects in humans. Severe

11. TOXICOLOGICAL INFORMATION (continued)

exposure to Carbon Monoxide during pregnancy has caused adverse effects and the death of the fetus. In general, maternal symptoms are an indicator of the potential risk to the fetus since Carbon Monoxide is toxic to the mother before it is toxic to the fetus.

Reproductive Toxicity: The components of this gas mixture are not expected to cause adverse reproductive effects in humans.

A mutagen is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generation lines. An embryotoxin is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A teratogen is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance which interferes in any way with the reproductive process.

BIOLOGICAL EXPOSURE INDICES (BEIs): Biological Exposure Indices (BEIs) have been determined for the components of this gas mixture, as follows:

CHEMICAL DETERMINANT	SAMPLING TIME	BEI
CARBON MONOXIDE • Carboxyhemoglobin in blood • Carbon monoxide in end-exhaled air	 • End of shift • End of shift	 • 3.5% of hemoglobin • 20 ppm
n-HEXANE • 2,5-Hexanedione in urine • n-Hexane in end-exhaled air	• End of shift	• 5 mg/g creatinine

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY: The gas will be dissipated rapidly in well-ventilated areas. The following environmental data are applicable to the components of this gas mixture.

OXYGEN: Water Solubility = 1 volume Oxygen/32 volumes water at 20°C. Log K_{ow} = -0.65

PROPANE: Log K_{ow} = 2.38. Water Solubility = 62.4 ppm, 25°C. Propane is readily degraded by soil bacteria.

PENTANE: Log K_{ow} = 3.39. Water Solubility = 38.5 mg/L. LOG BCF (n-pentane) = calculated, 1.90 and 2.35, respectively. Photolysis, hydrolysis, and bioconcentration are not anticipated to be important fate processes. Biodegradation and soil adsorption are anticipated to be more important processes for this compound.

n-HEXANE: Log K_{ow} = 3.90-4.11. Water Solubility = 9.5 mg/L. Estimated Bioconcentration Factor =2.24 and 2.89. Bioconcentration in aquatic organisms is low. Hexane is volatile. Rapid volatilization from water and soil is anticipated for this compound. Hexane will float in slick on surface of the water

HYDROGEN SULFIDE: Water Solubility = 1 g/242 mL at 20°C.

CARBON MONOXIDE: Water solubility = 3.3 ml/100 cc at 0 °C, 2.3 ml at 20°C.

NITROGEN: Water Solubility = 2.4 volumes Nitrogen/100 volumes water at 0°C; 1.6 volumes Nitrogen/100 volumes water at 20°C.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: No evidence is currently available on this gas mixture's effects on plant and animal life. The Hydrogen Sulfide and Carbon Monoxide components of this gas mixture, can be deadly to exposed animal life, producing symptoms similar to those experienced by humans. This gas mixture may also be harmful to plant life.

EFFECT OF CHEMICAL ON AQUATIC LIFE: No evidence is currently available on the effects of this gas effects on aquatic life. The presence of more than a trace of Carbon Monoxide is a hazard to fish. The following aquatic toxicity data are available for the Hydrogen Sulfide component of this gas mixture.

TLm (Asellussp) = 0.111 mg/L/96 hour
TLm (Cranfgonyx sp) =1.07 mg/L/96 hour
TLm (Gammarrus) = 0.84 mg/L/96 hour
LC_{50} (fly inhalation) = 380 mg/m^3/960 minutes
LC_{50} (fly inhalation) = 1500 mg/m^3/7 minutes
TLm (Lepomis macrochirus, bluegill sunfish) = 0.0478 mg/L/96 hour
TLm (Lepomis macrochirus, bluegill sunfish) = 0.0448 mg/L/96 hour at 21-22 °C
TLm (Pimephlaes promelas, fathead minnow) = 0.0071-0.55 mg/L/96 hour
TLm (Salvenilis foninalis, brook trout) = 0.0216-0.038 mg/L/96 hour at 8-12.5 °C

13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. Cylinders with undesired residual product may be safely vented outdoors with the proper regulator. For further information, refer to Section 16 (Other Information).

14. TRANSPORTATION INFORMATION

THIS GAS MIXTURE IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME: Compressed gases, n.o.s. (*Oxygen, Nitrogen)*or the gas component with the next highest concentration next to Nitrogen.

HAZARD CLASS NUMBER and DESCRIPTION: 2.2 (Non-Flammable Gas)
UN IDENTIFICATION NUMBER: UN 1956
PACKING GROUP: Not Applicable
DOT LABEL(S) REQUIRED: Class 2.2 (Non-Flammable Gas)
NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2000): 126

MARINE POLLUTANT: The components of this gas mixture are not classified by the DOT as Marine Pollutants (as defined by 49 CFR 172.101, Appendix B).

SPECIAL SHIPPING INFORMATION: Cylinders should be transported in a secure position, in a well-ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles can present serious safety hazards. If transporting these cylinders in vehicles, ensure these cylinders are not exposed to extremely high temperatures (as may occur in an enclosed vehicle on a hot day). Additionally, the vehicle should be well-ventilated during transportation.

Note: DOT 39 Cylinders ship in a strong outer carton (overpack). Pertinent shipping information goes on the outside of the overpack. DOT 39 Cylinders do not have transportation information on the cylinder itself.

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: This gas is considered as Dangerous Goods, per regulations of Transport Canada.

PROPER SHIPPING NAME: Compressed gases, n.o.s. (*Oxygen, Nitrogen)*or the gas component with the next highest concentration next to Nitrogen.

HAZARD CLASS NUMBER and DESCRIPTION: 2.2 (Non-Flammable Gas)
UN IDENTIFICATION NUMBER: UN 1956
PACKING GROUP: Not Applicable
HAZARD LABEL: Class 2.2 (Non-Flammable Gas)
SPECIAL PROVISIONS: None
EXPLOSIVE LIMIT AND LIMITED QUANTITY INDEX: 0.12
ERAP INDEX: None
PASSENGER CARRYING SHIP INDEX: None
PASSENGER CARRYING ROAD VEHICLE OR PASSENGER CARRYING RAILWAY VEHICLE INDEX: 75
NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2000): 126

NOTE: Shipment of compressed gas cylinders via Public Passenger Road Vehicle is a violation of Canadian law (Transport Canada Transportation of Dangerous Goods Act, 1992).

15. REGULATORY INFORMATION

ADDITIONAL U.S. REGULATIONS:

U.S. SARA REPORTING REQUIREMENTS: This gas is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows:

COMPONENT	SARA 302 (40 CFR 355, Appendix A)	SARA 304 (40 CFR Table 302.4)	SARA 313 (40 CFR 372.65)
n-Hexane	NO	YES	YES
Hydrogen Sulfide	YES	YES	YES

15. REGULATORY INFORMATION (Continued)

U.S. SARA THRESHOLD PLANNING QUANTITY: Section 302 EHS TPQ = Hydrogen Sulfide = 500 lbs (227 kg);
U.S. TSCA INVENTORY STATUS: The components of this gas mixture are listed on the TSCA Inventory.
U.S. CERCLA REPORTABLE QUANTITY (RQ): Hexane = 5000 lb (2270 kg); Hydrogen Sulfide = 100 lbs (45.4 lb)
OTHER U.S. FEDERAL REGULATIONS:

- Hydrogen Sulfide, Carbon Monoxide, Propane, n-Pentane and n-Hexane are subject to the reporting requirements of CFR 29 1910.1000.
- Hydrogen Sulfide, Propane and n-Pentane are subject to the reporting requirements of Section 112(r) of the Clean Air Act. The Threshold Quantity for each of these gases is 10,000 pounds and so this mixture will not be affected by the regulation.
- Depending on specific operations involving the use of this gas mixture, the regulations of the Process Safety Management of Highly Hazardous Chemicals may be applicable (29 CFR 1910.119). Hydrogen Sulfide is listed in Appendix A of this regulation. The Threshold Quantity for Hydrogen Sulfide under this regulation is 1500 lbs.
- This gas mixture does not contain any Class I or Class II ozone depleting chemicals (40 CFR part 82).
- Nitrogen, Oxygen and n-Hexane are not listed Regulated Substances, per 40 CFR, Part 68, of the Risk Management for Chemical Releases. Hydrogen Sulfide is listed under this regulation in Table 1 as a Regulated Substance (Toxic Substance), in quantities of 10,000 lbs (4,553 kg) or greater. Carbon Monoxide, Propane and n-Pentane are listed under this regulation in Table 3, as Regulated Substances (Flammable), in quantities of 10,000 lbs (4,553 kg) or greater, and so this mixture will not be affected by the regulation.

U.S. STATE REGULATORY INFORMATION: The components of this gas mixture are covered under the following specific State regulations:

Alaska - Designated Toxic and Hazardous Substances: Carbon Monoxide, Propane, n-Pentane, n-Hexane, Hydrogen Sulfide.
California - Permissible Exposure Limits for Chemical Contaminants: Carbon Monoxide, Nitrogen, Propane, n-Pentane, n-Hexane, Hydrogen Sulfide.
Florida - Substance List: Oxygen, Carbon Monoxide, n-Pentane, n-Hexane, Hydrogen Sulfide.
Illinois - Toxic Substance List: Carbon Monoxide, Propane, n-Pentane, n-Hexane, Hydrogen Sulfide.
Kansas - Section 302/313 List: No.
Massachusetts - Substance List: Oxygen, Carbon Monoxide, Propane, n-Pentane, n-Hexane, Hydrogen Sulfide.
Michigan - Critical Materials Register: No.
Minnesota - List of Hazardous Substances: Carbon Monoxide, Propane, n-Pentane, n-Hexane, Hydrogen Sulfide.
Missouri - Employer Information/Toxic Substance List t: n-Pentane, n-Hexane, Propane, Hydrogen Sulfide.
New Jersey - Right to Know Hazardous Substance List: Oxygen, Carbon Monoxide, Nitrogen, Propane, n-Pentane, n-Hexane.
North Dakota - List of Hazardous Chemicals, Reportable Quantities: Hydrogen Sulfide.
Pennsylvania - Hazardous Substance List: Oxygen, Carbon Monoxide, Nitrogen, Propane, n-Pentane, n-Hexane, Hydrogen Sulfide.
Rhode Island - Hazardous Substance List: Oxygen, Carbon Monoxide, Nitrogen, Propane, n-Pentane, n-Hexane, Hydrogen Sulfide.
Texas - Hazardous Substance List: n-Pentane, n-Hexane, Propane, Hydrogen Sulfide.
West Virginia - Hazardous Substance List: n-Pentane, n-Hexane, Propane, Hydrogen Sulfide.
Wisconsin - Toxic and Hazardous Substances: n-Pentane, n-Hexane, Propane, Hydrogen Sulfide

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): The Carbon Monoxide component of this gas mixture is on the California Proposition 65 lists as a chemical known to the State of California to cause birth defects or other reproductive harm.
ADDITIONAL CANADIAN REGULATIONS:
CANADIAN DSL/NDSL INVENTORY STATUS: The components of this gas mixture are on the Canadian DSL Inventory.
CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: The components of this gas mixture are not on the CEPA Priorities Substances List.
CANADIAN WHMIS CLASSIFICATION: This gas mixture is categorized as a Controlled Product, Hazard Classes A and D2A, as per the Controlled Product Regulations.

16. OTHER INFORMATION

INFORMATION ABOUT DOT-39 NRC (Non-Refillable Cylinder) PRODUCTS

DOT 39 cylinders ship as hazardous materials when full. Once the cylinders are relieved of pressure (empty) they are not considered hazardous material or waste. Residual gas in this type of cylinder is not an issue because toxic gas mixtures are prohibited. Calibration gas mixtures typically packaged in these cylinders are Nonflammable n.o.s., UN 1956. A small percentage of calibration gases packaged in DOT 39 cylinders are flammable or oxidizing gas mixtures.

For disposal of used DOT-39 cylinders, it is acceptable to place them in a landfill if local laws permit. Their disposal is no different than that employed with other DOT containers such as spray paint cans, household aerosols, or disposable cylinders of propane (for camping, torch etc.). When feasible, we recommended recycling for scrap metal content. CALGAZ will do this for any customer that wishes to return cylinders to us prepaid. All that is required is a phone call to make arrangements so we may anticipate arrival. Scrapping cylinders involves some preparation before the metal dealer may accept them. We perform this operation as a service to valued customers who want to participate.

MIXTURES: When two or more gases or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death.

Further information about the handling of compressed gases can be found in the following pamphlets published by: Compressed Gas Association Inc. (CGA), 1725 Jefferson Davis Highway, Suite 1004, Arlington, VA 22202-4102. Telephone: (703) 412-0900.

P-1 *"Safe Handling of Compressed Gases in Containers"*
AV-1 *"Safe Handling and Storage of Compressed Gases"*
"Handbook of Compressed Gases"

PREPARED BY:

CHEMICAL SAFETY ASSOCIATES, Inc.
PO Box 3519, La Mesa, CA 91944-3519
619/670-0609

Fax on Demand: 1-800/231-1366

AIR LIQUIDE™

This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this gas mixture. To the best of CALGAZ knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this gas mixture is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

APPENDIX C

Incident Investigation and Reporting Program

INCIDENT INVESTIGATION AND REPORTING MANAGEMENT PROGRAM

CORPORATE HEALTH AND SAFETY MANAGER	:	**Brian Hobbs, CIH, CSP**
EFFECTIVE DATE	:	**01/19**
REVISION NUMBER	:	**4**

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APPENDICES

Appendix A – Accident Report and Investigation Form

Appendix B – Near Loss Form

Appendix C – Injury Illness Reporting Flow Chart

1. PURPOSE

Roux Associates, Inc. and its affiliated companies, Roux Environmental Engineering and Geology, D.P.C, and Remedial Engineering (collectively, "Roux") has instituted the following management program for reporting Environmental Health and Safety (EHS) incidents and near losses, investigation and correcting the causes of incidents, tracking incidents and corrective actions taken, and sharing the cause and corrective actions with Roux personnel. These practices and procedures establish a method to track progress and improvements to the company EHS performance.

2. SCOPE AND APPLICABILITY

These procedures apply to all Roux employees. Employees are required to follow these procedures for all incidents involving Roux personnel, or other personnel (e.g., subcontractors) working for Roux, regardless of the specific work activity or work location.

This program is intended, in part, to fulfill the Occupational Safety and Health Administration (OSHA) occupational injury and illness reporting and recording requirements cited in the Code of Federal Regulations (CFR) at 29 CFR 1904.

3. RESPONSIBILITIES

It shall be the responsibility of all Roux employees to report all incidents as soon as possible to the PM (or Administrative Manager for office-related incidents), SHSO, OHSM and OM, regardless of severity. Additionally, the following positions have specific responsibilities for implementing this specific SOP.

3.1 Corporate Health and Safety Manager (CHSM)

- The CHSM has the responsibility of ensuring that a system is in place for reporting, investigation, correction, and communicating of EHS incidents and near losses.
- The CHSM has the overall responsibility of implementing and communicating the contents of this program to Office Health and Safety Managers (OHSMs).
- The CHSM will review all incidents and corrective actions taken. The CHSM will provide a summary of serious incidents to the Board of Directors.
- The CHSM will communicate learnings from incidents and corrective actions taken to all personnel, through quarterly communications.
- The CHSM will periodically review and evaluate the effectiveness of this procedure.

3.2 Office Manager (OM)

- The OM will designate the individual to serve as the OHSM responsibility for ensuring that requirements in this procedure are met.
- The OM will ensure that sufficient resources are allocated to fulfill the requirements of this procedure.
- The OM will conduct final review of all incident reports prepared under this procedure.

3.3 Office Health and Safety Manager (OHSM)

- It is the responsibility of the OHSM to review draft incident reports and assist the OM in finalizing reports of all accidents, illnesses and incidents related to work activity, and to assist the SHSO when necessary.

- The OHSM may not approve a site-specific HASP unless the HASP includes incident reporting procedures and forms.
- The OHSM will suggest and implement corrective actions to prevent the same type of incident from re-occurring.
- The OHSM will keep all incident reports, corrective action taken, and follow-up forms on file. The OHSM will provide copies of all final reports and forms to the CHSM within one week of the incident. If a serious incident occurs, the CHSM will be notified as soon as possible.
- The occurrence of a serious incident will trigger an EHS audit by the OHSM.

3.4 Project Manager (PM)

- It shall be the PM's responsibility to promptly correct any deficiencies that were determined to cause or contribute to the incident investigated.
- If a site-specific HASP is not utilized, the PM must ensure that field personnel have copies of the Roux Accident Reporting and Investigation Forms.
- The PM has the responsibility of ensuring that the SHSO and other field personnel understand the need for timely incident reporting.
- In the event of an incident, the PM will determine the root cause of the incident with the assistance of the SHSO and/or OHSM. The PM should provide input as to corrective preventative measures.

3.5 Site Health and Safety Officer (SHSO)

- The SHSO shall provide the details of the incident to the OHSM, PM and OM. The OM or his delegate will provide additional notifications, such as, in the event of a work-related motor vehicle accident, to include Roux Legal.
- It is the SHSO's responsibility to immediately notify the OHSM and the PM when any incident occurs. Such notification should take place immediately following the completion of any emergency actions required by the HASP.
- The SHSO should provide input as to corrective preventative measures.
- The SHSO must ensure that corrective actions proposed by the OHSM or OM are carried out.

3.6 All Personnel

- All personnel are responsible for reporting and describing the details of any incident in which they are involved to the SHSO and PM. Such notification should take place immediately following the completion of any emergency actions required by the HASP and after the loss and before the scene is disturbed or vehicles moved.

4. PROCEDURE

4.1 Incident Investigation

On receiving a report of incident or near loss occurrence from a Roux employee, the SHSO or OHSM shall immediately investigate the circumstances and shall make appropriate recommendations to prevent recurrence. The Incident Report form can be found in **Appendix A**, and Near Loss form can be found in **Appendix B**. The OHSM may participate in the investigation of more serious accidents and incidents that occur on-site. The Corporate Health and Safety Manager (CHSM) shall also be immediately notified by telephone on occurrence of a serious accident or incident. At the CHSM's discretion, he may also participate in the investigation.

4.2 Incident Report

Details of the incident shall be documented using the Accident Report and Investigation Forms (Appendix A) within twenty-four (24) hours of the incident and shall be distributed to the SHSO, the OHSM, PM, OM and the CHSM. The CHSM will update OSHA Forms 301 and the 300 log when necessary.

Appendix A – Accident Report and Investigation Form

☐ **Roux Environmental Engineering and Geology, D.P.C.**
☐ **Roux Associates, Inc.** ☐ **Remedial Engineering, P.C.**

ACCIDENT REPORT

Brian Hobbs, Corporate Health and Safety Manager
Cell: (631) 807-0193; Office: (631) 630-2416

PART 1: ADMINISTRATIVE INFORMATION

Project #: _____
Project Name: _____
Project Location (street address/city/state)**:**
_____
_____

Client Corporate Name / Contact / Address / Phone #:
_____
_____
_____
_____
_____

Immediate Verbal Notifications Given To:

Corporate Health & Safety	☐Yes	☐No
Office Health & Safety	☐Yes	☐No
Office Manager	☐Yes	☐No
Project Principal	☐Yes	☐No
Project Manager	☐Yes	☐No
Client Contact	☐Yes	☐No

REPORT STATUS (time due):
☐ Initial (24 hr) ☐ Final (5-10 days)
Date: _____ Date: _____

Accident Report Delivered To:

Corporate Health & Safety	☐Yes	☐No
Office Health & Safety	☐Yes	☐No
Office Manager	☐Yes	☐No
Project Principal	☐Yes	☐No
Project Manager	☐Yes	☐No

REPORT TYPE: ☐ Loss ☐ Near Loss Estimated Costs: $ _____
_____

OSHA CASE # Assigned by Corporate Health & Safety if Applicable:

Corporate Health & Safety Confirmed Final Accident Report
☐Yes ☐No

DATE OF INCIDENT: _____

TIME INCIDENT OCCURRED: _____ ☐AM ☐PM

INCIDENT LOCATION – City, State, and Country (If outside U.S.A.)
_____

INCIDENT TYPES: (Select most appropriate if Loss occurred.)
From lists below, please select the option that best categories the incident. When selecting an injury or illness, also indicate the severity level.

☐**INJURY** ☐**ILLNESS**

----------**Severity Level**----------

☐Fatality ☐First Aid ☐Medical Treatment
☐Restricted Work ☐Lost Time

OTHER INCIDENT TYPES

☐Spill / Release
Material involved:_____
Quantity (U.S. Gallons): _____

☐Misdirected Waste ☐Consent Order ☐NOV
☐Property Damage ☐Exceedance
☐Motor Vehicle ☐Fine / Penalty

ACTIVITY TYPE (Check most appropriate one.)

☐CAMP
☐Construction
☐Drilling
☐Driving
☐Excavation / Trenching
☐Gauging
☐O&M
☐Other Soil Work (e.g. Compaction)
☐Sampling
☐Site Walk/Inspection
☐Subsurface Clearance
☐Trucking
☐Waste Mgmt.
☐Work Area Prep.
☐Other

INJURY TYPE (Check all applicable.)

☐Abrasion
☐Amputation
☐Burn
☐Cold/Heat Stress
☐Inflammation
☐Laceration
☐Occupational Illness
☐Puncture
☐Rash
☐Repetitive Motion
☐Sprain/Strain
☐Other_____

BODY PART AFFECTED (Check all applicable.)

☐Respiratory
☐Neck
☐Chest
☐Abdomen
☐Groin
☐Back
☐Shoulder
☐Arm
☐Wrist
☐Hand/Fingers
☐Eye
☐Head
☐Face
☐Leg
☐Knee
☐Ankle
☐Foot/Toes
☐Other_____

I. PERSON(S) DIRECTLY / INDIRECTLY INVOLVED IN INCIDENT (Attach additional information as necessary/applicable.)

Name/Phone # of Each Person Directly/Indirectly Involved in Incident:	Designate: Roux/Remedial Employee Roux/Remedial Subcontractor Client Employee Client Contractor Third Party	As applicable, Current Occupation; Yrs in Current Occupation; Current Position; and Yrs in Current Position:	As applicable, Employer Name; Address; and Phone #:	As applicable, Supervisor Name; and Phone #:
1)				
2)				

II. PERSONS INJURED IN INCIDENT (Attach additional information as necessary/applicable.)

Name/Phone # of Each Person Injured in Incident:	Designate: Roux/Remedial Employee Roux/Remedial Subcontractor Client Employee Client Contractor Third Party	As applicable, Current Occupation; Yrs in Current Occupation; Current Position; and Yrs in Current Position:	As applicable, Employer Name; Address; and Phone #:	As applicable, Supervisor Name; and Phone #:	Description of Injury:
1)					
2)					

III. PROPERTY DAMAGED IN INCIDENT (Attach additional information as necessary/applicable.)

Property Damaged:	Property Location:	Owner Name, Address & Phone #:	Description of Damage:	Estimated Cost:
1)				
2)				$

IV. WITNESSES TO INCIDENT (Attach additional information as necessary/applicable.)

Witness Name:	Address:	Phone #:
1)		
2)		

PART 2: WHAT HAPPENED AND INCIDENT DETAILS

PROVIDE FACTUAL DESCRIPTION OF INCIDENT (e.g., describe loss/near loss, injury, response / treatment).

I. AUTHORITIES/GOVERNMENTAL AGENCIES NOTIFIED (Attach additional information as necessary/applicable.)

Authority/Agency Notified:	Name/Phone #/Fax # of Person Notified:	Address of Person Notified:	Date & Time of Notification:	Exact Information Reported/Provided:

II. PUBLIC RESPONSES TO INCIDENT (if applicable)

Response/Inquiry By: (check one)	Entity Name:	Name/Phone # of Respondent/ Inquirer:	Address of Entity/Person:	Date & Time of Response/Inquiry:
☐Newspaper ☐Television ☐Community Group ☐Neighbors ☐Other _____				

Describe Response/Inquiry:

Roux/Remedial Response:

(Check all that apply.) (Attach photos, drawings, etc. to help illustrate the incident.)
ATTACHED INFORMATION: ☐Photo ☐Sketches ☐Vehicle Acord Form ☐Police Report ☐Other

Name(s) of person(s) who prepared Initial and Final Report:	**Title(s):**	**Phone number(s):**

PART 3: INVESTIGATION TEAM ANALYSIS

Date Investigation Started (MM/DD/YYYY):

Factors, Root Causes, and Solution (FRCS): Complete FRCS form and answer all 7 factor questions. If answering NO to Factors 1 – 4 identify root cause(s) and explain why QIs) occurred. If answering YES to Factors 5 – 7 circle the root cause(s). Transfer the solutions guidance that addresses each root cause from the FRCS form to this form. Attach your completed FRCS Worksheet. If Factors 1-7 do not apply to the incident, write "External Cause" in the Factor column below and leave the remaining fields blank.

DESCRIPTION OF UNDESIRABLE BEHAVIOR/CONDITION

1.

2.

FACTOR(S) AND SOLUTION(S): HOW TO REDUCE POSSIBILITY OF INCIDENT RECURRING

Selection of factors and solutions reflects the analysis of investigation team and is not meant to be a legally binding conclusion as to the Root Cause and/or solution.

CAUSAL FACTOR/ BEHAVIOR/ CONDITION	ROOT CAUSE	SOLUTION(S) [Must Match Root Cause(s)]	PERSON RESPONSIBLE	AGREED DUE DATE	ACTUAL COMPLETION DATE

INVESTIGATION TEAM:

PRINT NAME	JOB POSITION	DATE	SIGNATURE

QUALITY REVIEW Correct root cause(s) identified? Do root cause(s) and solution(s) match? Are solution(s) feasible / maintainable?

Name: **Job Title:**

PART 4: Date Solutions were Implemented & Validated (Were Solutions Effective?)

Date	Solution	Verifier / Validator Name and Job Title	**Details** (of I & V performed)

Appendix B – Near Loss Form

HEALTH & SAFETY NEAR LOSS
ROUX REPORT FORM

☐ **Roux Environmental Engineering and Geology, D.P.C.**
☐ **Roux Associates, Inc.** ☐ **Remedial Engineering, P.C.**

(Check applicable company name)

PART 1: ADMINISTRATIVE INFORMATION

Office: ☐ New York ☐ Massachusetts ☐ New Jersey ☐ Illinois ☐ CA - Los Angeles ☐ CA - Oakland

Project Manager:	**Project Principal:**
Project Name:	**Project Location:**

PART 2: NEAR LOSS INCIDENT DETAILS

Date\Time Occurred (MM/DD/YYYY HH:MM)**:**	**Date\Time Submitted** (MM/DD/YYYY HH:MM)**:**

NEAR LOSS INCIDENT TYPE - What could have happened? - Select all that apply (1-7)

1. ☐ Fire / Explosion
2. ☐ Injury / Illness
3. ☐ Security (e.g., theft, trespassing, vandalism)
4. ☐ Environmental (Spill, permit exceedance, etc.)
5. ☐ Transportation of personnel (vehicle accident)
6. ☐ Property/Equipment Damage
7. ☐ Business Interruption

Event Leading to Potential Injury/Illness:

Job Task*:	**Equipment Involved*:**

WHAT HAPPENED? Do not include individuals' names. Ensure photos, sketches, etc. are not personally identifiable unless written consent has been obtained.

Summary (1-2 sentences. Provide brief description of the incident. Provide facts only, no speculation or opinion)**:**

Incident Details (Brief factual details of what, where, when; include photos, sketches, etc. as attachments)**:**

Immediate Corrective Actions Taken:

SERIOUS INJURY OR FATALITY (SIF): **IF AN ACTUAL SIF, USE EXISTING ROUX ACCIDENT REPORTING FORM**

Could this have resulted in a SIF? ☐ **Yes** ☐**No**

A potential SIF is defined as likely to have caused an injury resulting in significant physical body damage with probable long term and/or life altering complications.

INCIDENT INVOLVED:

Roux Employee: ☐ **Yes** ☐ **No** **Subcontractor Company Name:**

INVESTIGATION TEAM

NAME	JOB TITLE	NAME	JOB TITLE

PART 3: INCIDENT INVESTIGATION FINDINGS AND REPORT QUALITY REVIEW

Date Investigation Started (mm/dd/yyyy):

Factors, Root Causes, and Solution (FRCS): Complete FRCS form and answer all 7 factor questions. If answering NO to Factors 1 – 4 identify root cause(s) and explain why QIs) occurred. If answering YES to Factors 5 – 7 circle the root cause(s). Transfer the solutions guidance that addresses each root cause from the FRCS form to this form. Attach your completed FRCS Worksheet. If Factors 1-7 do not apply to the incident, write "External Cause" in the Factor column below and leave the remaining fields blank. Do not include individuals' names.

DESCRIPTION OF UNDESIRABLE BEHAVIOR/CONDITION

1.

2.

FACTOR(S) AND SOLUTION(S): HOW TO REDUCE POSSIBILITY OF INCIDENT RECURRING
Selection of factors and solutions reflects the analysis of investigation team and is not meant to be a legally binding conclusion as to the Root Cause and/or solution.

Behavior / Condition	Root Cause	Solution(s) (Must Match Root Cause)	Person Responsible for Completion	Completion Target Date	Completion Actual Date

QUALITY REVIEW Correct root cause(s) identified? Do root cause(s) and solution(s) match? Are solution(s) feasible / maintainable?

Name: **Job Title:**

PART 4: Date Solutions were Implemented & Validated (Were Solutions Effective?)

Date	Solution	Verifier / Validator Name and Job Title	**Details** (of I & V performed)

***JOB TASK - Select the most appropriate one** (primary job associated with incident-related work activity, avoid "Other" if possible)

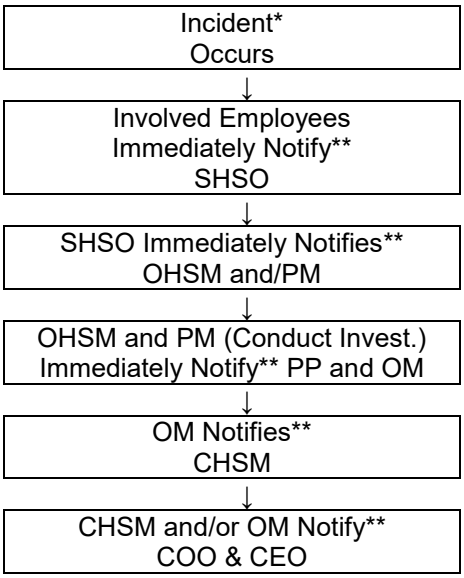
1. CAMP
2. Construction
3. Drilling
4. Driving
5. Excavation/Trenching
6. Gauging
7. O&M
8. Other Soil Work (e.g. Compaction)
9. Sampling
10. Site Walk/ Inspection
11. Subsurface Clearance
12. Trucking
13. Waste Management
14. Work Area Preparation
15. Other

***EQUIPMENT INVOLVED THAT CONTRIBUTED TO H&S NEAR LOSS - Select all that apply**

1. Air Stripper
2. API Separator
3. Automobile
4. Boom Material
5. Bulldozer
6. Cable
7. Carbon Drum / Vessel
8. Chain Block
9. Compressor, Air
10. Control Panel (local)
11. Crane (mobile)
12. Drill Rig
13. Drilling Equipment, Vacuum
14. Drum, Vertical
15. Dump Truck
16. Electric Heater
17. Electrical Power Supply
18. Engine, Combustion
19. Equipment Safety Grounding
20. Excavator / Power Shovel
21. Exclusion Zone Equipment
22 Fan / Blower
23 Fencing
24 Filter
25. Fire Extinguisher
26. Forklift
27. Front End Loader
28. Grader
29. Hammer
30. Knife
31. Non-Powered Equipment
32. Powered Equipment
33. Drill
34. Grinder
35. Hydraulic Torque Wrench
36. Powered Saw
37. Impact Wrench
38. Saw
39. Screwdriver
40. Shears
41. Shovel
42. Snip
43. Wrench
44. Hoist
45, Hook/Clamp/Buckle, etc.
46. Jack
47. Ladder, Extension
48. Ladder, Platform
49. Ladder, Step
50. Lock Out / Tag Out
51. Maintenance Tool, General
52. Manifold
53, Manlift/Basket/Cherry Picker
54. Motor, Electric
55. Oxidizer
56. Pallet
57. Piping
58. Piping, Hose
59. Piping, Injection/Mixing Point
60. Hydrojet
61. Centrifugal Pump
62. Diaphragm Pump
63. Reciprocating Pump
64. Regenerative Pump
65. Rotary Pump
66. Transfer Pump
67. Submersible Pump
68. Face Shield
69. Fall Protection
70. Gloves
71. Hard Hat / Helmet
72. Hearing Protection
73. Respiratory PPE (Chemical)
74. Respiratory PPE (Particulate)
75. Safety Glasses
76. Safety Goggles
77. Safety Shoes / Boots
78. Safety Vest / Clothing
79. Rope
80. Bailer
81. Geoprobe
82. Hand Auger
83. PID
84. Multi-Gas Meter
85. Sample Container
86. Split-Spoon Sampler
87. Sling
88. Snow Blower
89. Snow Plow
90. Space Heater
91. Air Sparging System
92. Carbon Treatment Sys
93. Chemical Oxidation S
94. Dual Phase Product Recovery System
95. Groundwater Pump and Treat System
96. POET System
97. Shed or Trailer
98. Vapor Extraction System
99. Vapor-Phase Treatment System
100. Other System, Type:___
101. Surge Tank
102. Underground Tank
103. Telemetry System
104. Testing Devices
105. Tractor Trailer
106. Truck, Flatbed
107. Truck, Pickup
108. Truck, Tank Truck
109. Truck, Vacuum
110. Safety Valve
111. Block Valve
112. Extraction Well
113. Monitoring Well
114. Recovery Well
115. Winch
116. Wire Rope
117. No Equipment Involved
118. MPT – Traffic Control Devices
118. Not in List (describe):___

Appendix C – Injury Illness Reporting Flow Chart

Health & Safety Near/Loss – Loss (Incident)*
Notification Flow Chart



* Incident – any work or site-related occurrence that resulted in, or could potentially have resulted in, the need for medical care or in property damage (i.e., all injuries or illnesses, exposure to toxic materials or any other significant occurrence resulting in property damage or in a "near loss")

** Verbal Notification

Initial Incident Report (written) to SHSO, OHSM, OM and CHSM within 24 hours
Follow-up Report within one week.

APPENDIX D

Heavy Equipment Exclusion Zone Policy

HEAVY EQUIPMENT EXCLUSION ZONE MANAGEMENT PROGRAM

CORPORATE HEALTH AND SAFETY MANAGER	**:**	**Brian Hobbs, CIH, CSP**
EFFECTIVE DATE	**:**	**01/2019**
REVISION NUMBER	**:**	**1**

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1. PURPOSE

The purpose of the Exclusion Zone Management Program is to establish the minimum clearance distance that must be maintained between workers and heavy equipment while equipment is in operation (i.e., engaged or moving). The intent is to have no personnel or equipment entering the Exclusion Zone while the equipment is in operation or moving to ensure that Roux and Subcontractor employees are not unnecessarily exposed to the hazards of the equipment.

2. SCOPE AND APPLICABILITY

This Management Program applies to all Roux Associates, Inc. and its affiliated companies, Roux Environmental Engineering and Geology, D.P.C, and Remedial Engineering (collectively, "Roux") employees and their subcontractors who are performing field work and are potentially exposed to heavy equipment. For the purpose of this program, heavy equipment includes, but is not necessarily limited to: excavation equipment, drill rigs, vacuum trucks, forklifts, lull telehandlers, man lifts, bobcats, delivery trucks, etc.

3. PROCEDURES

As specified in the following sections of this Program, an Exclusion Zones must be established and maintained during activities involving the movement/operation of heavy equipment. The Exclusion Zone requirements apply to all personnel on the site but are primarily focused on those personnel who are required to be working in the vicinity of the equipment. The exclusion zone is in effect when heavy equipment is moving or engaged (ex. movement of an arm or bucket of an excavator, rotation of an auger, lifting of a load with a forklift, raising/lowering of a man lift, etc.).

1. The Exclusion Zone must meet the following minimum requirements:
   - A minimum distance of 10 feet from all heavy equipment and loads being moved by the equipment;
   - Greater than the swing/reach radius of any moving part on the heavy equipment (i.e., for large equipment this may mean an exclusion zone distance larger than 20 feet);
   - Greater than the tip-over distance of the heavy equipment; and
   - Greater than the radius of blind spots.

   The size of the Exclusion Zone will need to be determined on a task-specific basis considering the size of the heavy equipment in use and the task being performed. Prior to all heavy equipment operations, the Exclusion Zone(s) distance must be specifically identified in the Job Safety Analysis (JSA).

2. The spotter (or another individual) should be assigned responsibility for enforcing the Exclusion Zone. The spotter should be positioned immediately outside of the Exclusion Zone within a clear line of sight of the equipment operator. The spotter must signal the operator to stop work if anyone or anything has the potential to enter or compromise the Exclusion Zone. The operator should stop work if the spotter is not within his/her line of sight. If multiple pieces of equipment are being used, each piece of equipment must have its own Exclusion Zone and spotter. For large excavation and demolition projects the spotter should be in constant radio contact (not cell phone) with the machine driver.
3. If an individual must enter the Exclusion Zone, the designated Spotter must signal the Equipment Operator to stop the equipment. Once the equipment is no longer moving (ex. movement of an arm of an excavator is STOPPED, lifting of a load with a forklift STOPPED, raising/lowering of a man lift is

STOPPED, etc.), the operator must DISENGAGE THE CONTROLS and STOP and SIGNAL BY "SHOWING HIS HANDS". This signal will indicate that it is safe for the personnel to enter the limits of the Exclusion Zone to perform the required activity. The equipment must remain completely stopped/disengaged until all personnel have exited the limits of the Exclusion Zone and the designated Spotter has signaled by "SHOWING HIS HANDS" to the Equipment Operator that it is safe to resume operations.

4. When entering the limits of the Exclusion Zone, personnel must at a minimum:
   - Establish eye contact with the operator and approach the heavy equipment in a manner that is in direct line of sight to the Equipment Operator;
   - Never walk under any suspended loads or raised booms/arms of the heavy equipment; and
   - Identify a travel path that is free of Slip/Trip/Fall hazards.
5. The Exclusion Zone should be delineated using cones with orange snow fence or solid poles between the cones, barrels, tape or other measures. For work in rights-of-way rigid barriers, such as Jersey barriers or temporary chain link fence should be used. For certain types of wide-spread or moving/mobile equipment operations, such delineation may not be practicable around pieces of equipment or individual work areas. In such instances, it is expected that the entire operation will be within a larger secure work area or that additional means will be utilized to ensure security of the work zone.

All subcontractors who provide heavy equipment operations to field projects must implement a program that meets or exceeds the expectations described above as well as any additional requirements that may be required on a client or site-specific basis.

3.1 Exceptions

It is recognized that certain heavy equipment activities may require personnel to work within the limits of the Exclusion Zone as specified in this program. Such activities may include certain excavation clearance tasks, drill crew activities or construction tasks. However, any such activity must be pre-planned with emphasis on limiting the amount and potential exposure of any activity required within the zone. The critical safety steps to mitigate the hazards associated with working within the Exclusion Zone must be defined in the JSA and potentially other project-specific plans (i.e., critical lift plans, etc.), and approved by the Roux Project Principal and client representative, if required, prior to implementation.

4. TRAINING

Many Roux projects have different requirements that are client-specific or site-specific in nature. It is the responsibility of the Project Principal (or Project Manager if delegated this responsibility by the Project Principal) to ensure that the workers assigned to his/her projects are provided orientation and training with respect to these client and/or site-specific requirements.

APPENDIX E

Subsurface Utility Clearance Management Program

SUBSURFACE UTILITY CLEARANCE MANAGEMENT PROGRAM

CORPORATE HEALTH AND SAFETY MANAGER	**:**	**Brian Hobbs, CIH, CSP**
EFFECTIVE DATE	**:**	**01/19**
REVISION NUMBER	**:**	**2**

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Appendix B – Example of Completed One Call

Appendix C – Roux Subsurface Utility Clearance Checklist

Appendix D – Utility Verification/Site Walkthrough Record

1. PURPOSE

Roux Associates, Inc. and its affiliated companies, Roux Environmental Engineering and Geology, D.P.C, and Remedial Engineering (collectively, "Roux") has instituted the following program for completing proper utility mark-outs and for conducting subsurface clearance activities. This establishes a method to ensure, to the greatest extent possible, that utilities have been identified and contact and/or damage to underground utilities and other subsurface structures will be avoided.

2. SCOPE AND APPLICABILITY

The Subsurface Utility Clearance Management Program applies to all Roux employees, its contractors and subcontractors. Employees are expected to follow this program for all intrusive work involving Roux or other personnel (e.g., contractors/subcontractors) working for Roux unless the client's requirements are more stringent. Deviation from the program regardless of the specific work activity or work location must be pre-approved based on client's site knowledge, site experience and client's willingness for the use of this program. Any and all exceptions shall be documented and pre-approved by the Project Principal and the Office Manager.

3. PROCEDURES

3.1 Before Intrusive Activities

During the project kick-off meeting for intrusive activities the PM will review the Roux Subsurface Utility Clearance Checklist and Utility Verification (Appendix C) / Site Walkthrough Record (Appendix D) and the below bullet points with the project field team:

(Please note that these are intended as general reminders only and should not be solely relied upon.)

- Ensure the Mark-out / Stake-out Request Information Sheet (or one-call report) is complete and accurate for the site including address and cross streets and review for missing utilities. (Note: utility mark-out organizations do not have contracts with all utilities and it is often necessary to contact certain utilities separately such as the local water and sewer authorities).
- Have written confirmation prior to mobilizing to the site that the firm or Roux personnel performing the intrusive activity has correctly completed the mark-out notification process including requesting mark-outs, waiting for mark-outs to be applied to ground surfaces at the site, and receiving written confirmation of findings (via fax or email) from utility operators for all known or suspected utilities in the proposed area of intrusive activity, and provided utility owner written confirmation to Roux personnel for review and project files documentation.
- Do not begin any intrusive activity until all utilities mark-out has been completed (i.e., did all utilities mark-out the site?) and any unresolved mark-out issues are finalized. Perform a site walk to review the existing utilities and determine if said utilities have been located by the utility locators.

  (Note: The Tolerance Zone is defined as two feet plus half of the diameter or half of the greatest dimension (for elliptical sewers, duct banks and other non-cylindrical utilities) of a utility and two feet from the outside edge of any subsurface structure.)
- Install Pre-Clearance exploratory test holes (e.g., hand-dug test holes or other soft digging techniques) for the first 5-ft below land surface (BLS) at each location prior to conducting mechanized intrusive activities. The size of the pre-clearance exploratory test hole should be at a minimum twice the diameter of any downhole tool or boring device. (Note: Pre-Clearance exploratory test holes should be defined in the SOW/proposal provided to the client to prevent project delays and to allow adequate time for PM and PP to evaluate alternative approaches for the project. Alternative approaches will need to be pre-approved by the OM.

- For excavations, all utilities need to be marked and then exposed by hand following the protocols in this program. Pre-clearing for excavations may be performed by the "moat" technique (i.e., soft digging around the perimeter). In these cases, dig in small lifts (<12" for first 5 feet) using a dedicated spotter.) For Tolerance Zone work, unless otherwise agreed upon with the Utility Operator, work within the tolerance zone requires verification by means of hand-dug test holes performed to expose the utility. Once structures have been verified a minimum clearance of two feet must be maintained between the utility and any powered equipment.
- In addition, the following activities should be conducted:
  - Review the work scope to be performed with the site owner/tenant to determine if it may impact any utilities;
  - Attempt to procure any utility maps or historic drawings of subsurface conditions of the site;
  - **Determine the need for utility owner companies to be contacted or to have their representatives on site**;
  - Where mark-outs terminate at the property boundary, consider the use of private utility locating / GPR / geophysical-type services which may be helpful in locating utilities. Use of private utility locating firms, however, does not eliminate the legal requirement for the Excavator firm to submit a request for Public Utility Mark-outs. Also, the information provided by the service may be inaccurate and unable to locate subsurface utilities and structures in urban areas, landfills, urban fill areas and below reinforced slabs, etc. They should not be relied upon as the only means of performing utility clearance;
  - Documented description of the dig site which is included in the projects Health and Safety Plan (HASP) and one call report will be maintained in the field and distributed amongst Roux personnel its contractors and subcontractors; and
  - Documentation of the actual placement of mark outs in the field shall be collected using dated pictures, videos and/or sketches with distance from markings to fixed objects. All documentation shall be maintained within the project file.

3.2 During Intrusive Activities

The PM, field team lead or personnel performing oversight is to:

- Ensure the mark-out remains valid. (In certain states there are limits regarding the duration of time after the mark-out was applied to the ground surface work can be started or interrupted.) Additionally, the mark-outs must be maintained, documented, and in many cases refreshed periodically to be considered valid, this will be accomplished through calls to the one call center.
- Ensure intrusive activities are only performed within the safe boundaries of the mark-out as detailed in the One-Call Report.
- Halt all work if intrusive activities have resulted in discovery of an unmarked utility. Roux personnel shall notify the facility owner/operator and the one call center. All incidents such as this will be reported as per Roux Incident Investigation and Reporting Management Program.
- Halt all work if intrusive activities must take place outside of the safe boundaries of a mark-out and only proceed after new mark-outs are performed.
- Halt the intrusive activities and immediately consult with the PP if an unmarked utility is encountered.
- Completing any subsurface utility clearance incident reports that are necessary.

- If a utility cannot be found as marked Roux personnel shall notify the facility owner/operator directly or through the one call center. Following notification, the excavation may continue, unless otherwise specified in state law.
- Contractors/subcontractors must contact the one-call center to refresh the ticket when the excavation continues past the life of the ticket. Ticket life shall be dictated by state law however at a maximum ticket life shall not exceed 20 working days.

3.3 Stop Work Authority

Each Roux employee has Stop Work Authority which he or she will execute upon determination of any imminent safety hazard, emergency situation, or other potentially dangerous situation, such as hazardous weather conditions. This Stop Work Authority includes subsurface clearance issues such as the adequacy of a mark-out or identification during intrusive operations of an unexpected underground utility. Authorization to proceed with work will be issued by the PM/PP after such action is reviewed and resolved. The PM will initiate and execute all management notifications and contact with emergency facilities and personnel when this action is appropriate.

Appendix A - Definitions

Intrusive Work Activities All activities such as digging or scraping the surface, including but not limited to, excavation, test pitting or trenching, soil vapor sampling or the installation of soil borings, soil vapor monitoring points and wells, or monitoring wells, and drilling within the basement slab of a recently demolished building.

Mark-out / Stake Out The process of contracting with a competent and qualified company to confirm the presence or absence of underground utilities and structures. This process will clearly mark-out and delineate utilities that are identified so that intrusive work activities can be performed without causing disturbance or damage to the subsurface utilities and structures. After utility mark-outs are completed the soft digging will be completed prior to intrusive work.

Tolerance Zone Defined as two feet on either side of the designated centerline of an identified utility, plus half of the diameter or half of the greatest dimension (for elliptical sewers, duct backs and other non-cylindrical utilities) of that utility and two feet from the outside edge of any subsurface structure.

Structure For the purpose of this program a structure is defined as any underground feature that may a present potential source(s) of energy such as, but not limited to, utility vaults, bunkers, piping, electrical boxes, wires, conduits, culverts, utility lines, underground tanks and ducts.

Soft Digging The safest way to remove material from unknown obstructions or services is by using tools such as a vactor or air knife, non-mechanical tools, or hand tools. The methods are clean and non-evasive and used for uncovering and exposing buried services, excavating and for providing a quick method of soil removal from sensitive areas.

Verification Exploratory test-hole dug with hand tools within the Tolerance Zone to expose and verify the location, type, size, direction-of-run and depth of a utility or subsurface structure. Vacuum excavation (soft dig) methods can further facilitate exposure of a subsurface utility and accurately provide its location and identification prior to intrusive work approaching the Tolerance Zone.

Appendix B - Example of Completed One Call Report

Example Completed One-Call Report

New York 811

Send To: C_EMAIL Seq No: 744

Ticket No: 133451007 ROUTINE

Start Date: 12/16/13 Time: 7:00 AM Lead Time: 20

State: NY County: QUEENS Place: QUEENS
Dig Street: 46TH AVE Address:
Nearest Intersecting Street: VERNON BLVD
Second Intersecting Street: 11TH ST

Type of Work: SOIL BORINGS
Type of Equipment: GEOPROBE
Work Being Done For: ROUX

In Street: X On Sidewalk: X Private Property: Other:
On Property Location if Private: Front: Rear: Side:

Location of Work: MARK THE ENTIRE NORTH SIDE OF THE STREET AND SIDEWALK OF:
46TH AVE BETWEEN VERNON BLVD AND 11TH STREET

Remarks:

Nad: Lat: Lon: Zone:
ExCoord NW Lat: 40.7475399 Lon: -73.9534811 SE Lat: 40.7457406 Lon: -73.9493680

Company : ZEBRA ENVIROMENTAL Best Time: 6AM-5PM
Contact Name: DAVID VINES Phone: (516)596-6300
Field Contact: DAVID VINES Phone: (516)596-6300
Caller Address: 30 N PROSPECT AVE Fax Phone: (516)596-4422
LYNBROOK, NY 11563
Email Address: david@zebraenv.com

Additional Operators Notified:
ATTNY01 AT&T CORPORATION (903)753-3145
CEQ CONSOLIDATED EDISON CO. OF N.Y (800)778-9140
MCINY01 MCI (800)289-3427
PANYNJ01 PORT AUTHORITY OF NY & NJ (201)595-4841
VZQ VERIZON COMMUNICATIONS (516)297-1602

Link to Map for C_EMAIL: http://ny.itic.occinc.com/XGMZ-DF2-L23-YAY

Original Call Date: 12/11/13 Time: 1:15 PM Op: webusr
IMPORTANT NOTE: YOU MUST CONTACT ANY OTHER UTILITIES DIRECTLY

Appendix C - Roux Subsurface Utility Clearance Checklist

Roux Subsurface Utility Clearance Checklist ***Date of Revision – 12/3/14***

Work site set-up and work execution

ACTIVITY	Yes	No	N/A	COMMENTS INCLUDING JUSTIFICATION IF RESPONSE IS NO OR NOT APPLICABLE
Daily site safety meeting conducted, SPSAs performed, JSAs reviewed, appropriate work permits obtained.				
HASP is available and reviewed by site workers / visitors.				
Subsurface Utility Clearance Procedure has been reviewed with all site workers.				
Work area secured; traffic control established as needed. Emergency shut-off switch located. Fire extinguishers / other safety equipment available as needed.				
Utility mark-outs (public / private) clear and visible. Provide Excavator's Stake-Out Reference Number / Request Date / Time.				
Tolerance zone work identified.				
Work execution plan reviewed and adhered to (ground disturbance methods, clearance depths, any special utility protection requirements, or any other execution requirements; especially for Tolerance Zone work).				
Verbal endorsement received from Roux PM for any required field deviations to work execution plan.				

Key reminders for execution:

The Subsurface Utility Clearance Protocol should be referenced to determine all requirements while executing subsurface work. The bullet points below are intended as general reminders only and should not be solely relied upon.

- Tolerance zone is defined as two feet plus half of the diameter or half of the greatest dimension (for elliptical sewers, duct banks and other non-cylindrical utilities) of a utility and two feet from the outside of any subsurface structure.
- Install Pre-Clearance exploratory test holes (e.g., hand-dug test holes or vacuum excavation) must be performed for the first five feet below land surface (BLS) at each location prior to conducting mechanized intrusive activities. The size of the pre-clearance exploratory test hole should be at a minimum twice the diameter of any downhole tool or boring device. (Note: Pre-clearance exploratory test holes should be defined in the SOW/proposal provided to the client to prevent project delays and to allow adequate time for PM and PP to evaluate alternative approaches for the project. Alternate approaches will need to be pre-approved by the OM.
- For excavations, all utilities need to be marked and then exposed by hand following the protocols in this program. Pre-clearing for excavations may be performed by the "moat" technique (i.e., soft

digging around the perimeter). In these cases, dig in small lifts (<12" for first five feet) using a dedicated spotter.) For Tolerance Zone work, unless otherwise agreed upon with the Utility Operator, work within the tolerance zone requires verification by means of hand-dug test holes to expose the utility. Once structures have been verified a minimum clearance of two feet must be maintained between the utility and any powered equipment.

Appendix D - Utility Verification/Site Walkthrough Record

Employee Name:_____

Date: _____

Instructions: For each utility suspected at the job site, indicate location on the job site, approximate burial depth, and means of detecting the utility. Leave blank if that utility is not believed to be present.

Utility	Description of Utility Location Identified Onsite	Approx. Depth (bls)	Method / Instrumentation used to determine Utility Location	Utility Owner Response (Date/Time)	Mark Out Indicates (Clear / Conflict)
Electrical Lines					
Gas Lines					
Pipelines					
Steam Lines					
Water Lines					
Sanitary and Stormwater Sewer lines					
Pressured Air-Lines					
Tank Vent Lines					
Fiber Optic Lines					
Underground Storage Tanks					
Phone Lines/ Other					

* bls - below land surface

Site Sketch Showing Utilities:

Other Comments / Findings:

Completed by: _____

Signature: _____ Date: _____

APPENDIX F

Personal Protective Equipment Management Program

PERSONAL PROTECTIVE EQUIPMENT MANAGEMENT PROGRAM

CORPORATE HEALTH AND SAFETY MANAGER	**:**	**Brian Hobbs, CIH, CSP**
EFFECTIVE DATE	**:**	**01/19**
REVISION NUMBER	**:**	**4**

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1. PURPOSE

Roux Associates, Inc. and its affiliated companies, Roux Environmental Engineering and Geology, D.P.C, and Remedial Engineering (collectively, "Roux") has instituted the following program to establish guidelines for the selection of personal protective equipment (PPE) for use by Roux personnel performing field activities in hazardous environments. PPE is not meant to be a substitute for engineering, work practice, and/or administrative controls, but PPE should be used in conjunction with these controls to protect the employees in the work place. Clothing, body coverings, and other accessories designed to prevent worker exposure to workplace hazards are all types of PPE. To ensure adequate PPE employee-owned PPE is evaluated on a case-by-case basis to insure its adequacy, maintenance and sanitation.

2. SCOPE AND APPLICABILITY

These guidelines apply to all PPE selection decisions to be made in implementing the Roux program. The foundations for this program are the numerous Occupational Health and Safety Administration (OSHA) standards related to PPE cited in 29 CFR 1910 Subpart I, 29 CFR 1926 Subpart E, and the hazardous environment work employee protection requirements under the OSHA Hazardous Waste Operations and Emergency Response (HAZWOPER) standard at 29 CFR 1910.120 and 1926.65. To ensure hazard assessments are documented the levels of protection, types of protection and tasks requiring protection are covered in site-specific Health and Safety Plans (HASPs) and Job Safety Analyses (JSAs).

3. PROCEDURES

Due to the varied nature of site activities and the different potential hazards associated with different sites, several aspects must be considered when selecting PPE. The following text describes PPE selection logic and provides guidelines and requirements for the appropriate selection and use of PPE.

3.1 Introduction

To harm the body, chemicals must first gain entrance. The intact skin and the respiratory tract are usually the first body tissues attacked by chemical contaminants. These tissues provide barriers to some chemicals but in many cases, are damaged themselves or are highly permeable by certain chemical compounds. Personal protective equipment therefore is used to minimize or eliminate chemical compounds coming into contact with these first barrier tissues.

The proper selection of equipment is important in preventing exposures. The PM making the selection will have to take several factors into consideration. The level of protection, type and kind of equipment selected depends on the hazardous conditions and in some cases cost, availability, compatibility with other equipment, and performance. An accurate assessment of all these factors must be made before work can be safely carried out.

3.1.1 Training

Training shall be provided to all field-based employees in the proper use and care of PPE. Training shall include but is not limited to the initial 40-hour HAZWOPER and annual 8-hour HAZWOPER refresher training. The training program includes, when PPE is necessary; what types of PPE are necessary; how to don, doff, adjust and wear PPE; the limitations of PPE; the proper care, maintenance, useful life and disposal of PPE. In addition, retraining shall be conducted when workplace changes require a change in PPE, when an employee demonstrates lack of knowledge or improper use of PPE. Training certifications are provided to employees which include date of training and certification subject.

3.2 Types of PPE

The type and selection of PPE must meet certain general criteria and requirements as required under OSHA 29 CFR 1910.132 and 1926.95. In addition to these general requirements, specific requirements and specifications exist for some types of PPE that form the basis of the protective clothing scheme. All PPE shall be maintained in a sanitary and reliable condition. Additionally, proper fit and/or size shall be evaluated to ensure adequate protection of all employees. Should PPE become defective it shall be immediately removed from service and discarded.

The following is a list of the common types of specific PPE and the specific requirements for the PPE type, where applicable:

1. Hard Hats - Regulated by 29 CFR 1910.135 and 1926.100; and, specified in ANSI Z89.1.
2. Face Shields and Safety Glasses - Regulated by 29 CFR 1910.133 and 1926.102; and, specified in ANSI Z87.1.
3. Respiratory Protection - Regulated by 29 CFR 1910.134 and 1926.103.
4. Hand Protection - Not specifically regulated.
5. Foot Protection - Regulated by 29 CFR 1910.136 and 1926.96; and, specified in ANSI Z41.1.
6. Protective Clothing (e.g., fully encapsulated suits, aprons) - Not specifically regulated.

3.3 Protective Clothing Selection Criteria

3.3.1 Chemicals Present

The most important factor in selecting PPE is the determination of what chemicals the employee may be exposed to. On field investigations, the number of chemicals may range from a few to several hundred. The exact chemicals or group of chemicals present at the site (certain groups tend to require similar protection) can be determined by collecting and analyzing samples of the air, soil, water, or other site media. When data are lacking, research into the materials used or stored at the site can be used to infer chemicals possibly on the site.

Once the known or suspected chemicals have been identified, and taking into consideration the type of work to be performed, the most appropriate clothing shall be selected.

Protective garments are made of several different substances for protection against specific chemicals. There is no universal protective material. All will decompose, be permeated by, or otherwise fail to protect under given circumstances. Fortunately, most manufacturers make guides to the use of their products (i.e., Dupont's Tyvek™ Permeation Guide). These guides are usually for gloves and coveralls and typically provide information regarding chemical degradation rates (failure of the material to maintain structural integrity when in contact with the chemical), and may provide information on the permeation rate (whether or not the material allows the chemical to pass through). When permeation tables are available, they shall be used in conjunction with degradation tables to determine the most appropriate protective material.

During most site work, chemicals are usually in mixed combinations and the protective materials are not in continuous contact with pure chemicals for long periods of time; therefore, the selected material may be adequate for the particular chemical and type of work being performed, yet not the "best" protecting material for all site chemicals and activities. Selection shall depend upon the most hazardous chemicals based on their hazards and concentrations. Sometimes layering, using several different layers of protective materials, affords the best protection.

3.3.2 Concentration of the Chemical(s)

One of the major criteria for selecting protective material is the concentration of the chemical(s) in air, liquid, and/or solid state. Airborne and liquid chemical concentrations should be compared to the OSHA standards and/or American Conference of Governmental Industrial Hygienists (ACGIH) and National Institute for Occupational Safety and Health (NIOSH) guidelines to determine the level of skin or other absorptive surface (e.g., eyes) protection needed. While these standards are not designed specifically for skin exposed directly to the liquid, they may provide skin designations indicative of chemicals known to have significant skin or dermal absorption effects. For example, airborne levels of PCB on-site may be low because it is not very volatile, so the inhalation hazard may be minimal; however, PCB-containing liquid coming in direct contact with the skin may cause overexposure. Thus, PCB has been assigned a skin designation in both the OSHA and ACGIH exposure limit tables.

3.3.3 Physical State

The characteristics of a chemical may range from nontoxic to extremely toxic depending on its physical state. Inorganic lead in soil would not be considered toxic to site personnel, unless it became airborne, since it is generally not absorbed through the intact skin. Organic lead in a liquid could be readily absorbed. Soil is frequently contaminated with hazardous materials. Concentrations will vary from a few parts per million to nearly one hundred percent. The degree of hazard is dependent on the type of soil and concentration of the chemical. Generally speaking, "dry" soils do not cause a hazard to site personnel if they take minimal precautions such as wearing some type of lightweight gloves.

3.3.4 Length of Exposure

The length of time a material is exposed to a chemical increases the probability of breakthrough. Determinations of actual breakthrough times for short-term exposures indicate that several different materials can be used which would be considered inadequate under long-term exposures. It should be kept in mind that during testing, a pure (100% composition) liquid is usually placed in direct contact with the material producing a worst-case situation.

3.3.5 Abrasion

When selecting protective clothing, the job the employee is engaged in must be taken into consideration. Persons moving drums or performing other manual tasks may require added protection for their hands, lower chest and thighs. The use of leather gloves and a heavy apron over the other normal protective clothing will help prevent damage to the normal PPE and thus reduce worker exposures.

3.3.6 Dexterity

Although protection from skin and inhalation hazards is the primary concern when selecting PPE, the ability to perform the assigned task must be maintained. For example, personnel cannot be expected to perform work that requires fine dexterity if they must wear a thick glove. Therefore, the PPE selection process must consider the task being performed and provide PPE alternatives or techniques that allow dexterity to be maintained while still protecting the worker (e.g., wearing tight latex gloves over more bulky hand protection to increase dexterity).

3.3.7 Ability to Decontaminate

If disposable clothing cannot be used, the ability to decontaminate the materials selected must be taken into consideration. Once a chemical contacts the material, it must be cleaned before it can be reused. If the chemical has completely permeated the material, it is unlikely that the clothing can be adequately decontaminated and the material should be discarded.

3.3.8 Climactic Conditions

The human body works best with few restraints from clothing. Protective clothing adds a burden by adding weight and restricting movement as well as preventing the natural cooling process. In severe situations, a modified work program must be used.

Some materials act differently when they are very hot and very cold. For example, PVC becomes almost brittle in very cold temperatures. If there are any questions about the stability of the protective materials under different conditions, the manufacturer should be contacted.

3.3.9 Work Load

Like climactic conditions, the type of work activity may affect work duration and the ability or personnel to perform certain tasks. Similarly, the amount of protective materials a person wears will affect their ability to perform certain tasks. For example, a person in a total encapsulating suit, even at 72 ^{o}F, cannot work for more than a short period of time without requiring a break.

The work schedule should be adjusted to maintain the health of the employees. Special consideration should be given to the selection of clothing that both protects and adds the least burden when personnel are required to perform strenuous tasks. Excessive bodily stress frequently represents the most significant hazard encountered during field work.

3.4 Types of Protective Materials

1. Cellulose or Paper
2. Natural and Synthetic Fibers
    a. Tyvek™
    b. Nomex™
3. Elastomers
    a. Polyethylene
    b. Saran
    c. Polyvinyl Chloride (PVC)
    d. Neoprene
    e. Butyl Rubber
    f. Viton

3.5 Protection Levels

3.5.1 Level A Protection

Level A protection (a fully encapsulated suit) is used when skin hazards exist or when there is no known data that positively rule out skin and other absorption hazards. Since Level A protection is extremely physiologically and psychologically stressful, the decision to use this protection must be carefully considered. At no time will Level A work be performed without the consent of the OM. The following conditions suggest a need for Level A protection:

- confined facilities where probability of skin contact is high;
- sites containing known skin hazards;
- sites with no established history to rule out skin and other absorption hazards;
- atmosphere immediately dangerous to life and health (IDLH) through the skin absorption route;
- site exhibiting signs of acute mammalian toxicity (e.g., dead animals, illnesses associated with past entry into site by humans);
- sites at which sealed drums of unknown materials must be opened;
- total atmospheric readings on the Photoionization Detector (PID), Flame Ionization Detector (FID), and similar instruments indicate 500 to 1,000 ppm of unidentified substances; and
- extremely hazardous substances (e.g., cyanide compounds, concentrated pesticides, Department of Transportation Poison "A" materials, suspected carcinogens and infectious substances) are known or suspected to be present and skin contact is possible.

The following items constitute Level A protection:

- open circuit, pressure-demand self-contained breathing apparatus (SCBA);
- totally encapsulated suit;
- gloves, inner (surgical type);
- gloves, outer;
- chemical protective;
- boots, chemical protective, steel toe and shank;
- radiation detector (if applicable); and
- communications.

3.5.2 Level B Protection

Level B protection is utilized when the highest level of respiratory protection is needed but hazardous material exposure to the few unprotected areas of the body is unlikely.

The following conditions suggest a need for Level B protection:

- the type and atmospheric concentration of toxic substances have been identified and they require the highest level of respiratory protection;
- IDLH atmospheres where the substance or concentration in the air does not present a severe skin hazard;
- the type and concentrations of toxic substances do not meet the selection criteria permitting the use of air purifying respirators; and

- it is highly unlikely that the work being done will generate high concentrations of vapors, gases or particulates, or splashes of materials that will affect the skin of personnel.

Personal protective equipment for Level B includes:

- open circuit, pressure-demand SCBA;
- chemical protective clothing:
- overalls and long-sleeve jacket; or
- coveralls;
- gloves, inner (surgical type); gloves, outer, chemical protective;
- boots, chemical protective, steel toe and shank; and
- communications optional.

3.5.3 Level C Protection

Level C protection is utilized when both skin and respiratory hazards are well defined and the criteria for the use of negative pressure respirators have been fulfilled (i.e., known contaminants and contaminant concentrations, acceptable oxygen levels, approved filter/cartridge available, known cartridge service life, etc.). Level C protection may require carrying an emergency escape respirator during certain initial entry and site reconnaissance situations, or when applicable thereafter.

Personal protective equipment for Level C typically includes:

- full facepiece air-purifying respirator;
- emergency escape respirator (optional);
- chemical protective clothing:
  - overalls and long-sleeved jacket; or
  - coveralls;
- gloves, inner (surgical type);
- gloves, outer, chemical protective; and
- boots, chemical protective, steel toe and shank.

3.5.4 Level D Protection

Level D is the basic work uniform. Personal protective equipment for Level D includes:

- coveralls;
- safety boots/shoes;
- eye protection;
- hand protection;
- reflective traffic safety vest (mandatory for traffic areas or railyard);
- hard hat (with face shield is optional); and
- emergency escape respirator is optional.

3.5.5 Level E Protection

Level E protection is used when radioactivity above 10 mr/hr is detected at the site. Personal protective equipment for Level E includes:

- coveralls;
- air purifying respirator;
- time limits on exposure;
- appropriate dermal protection for the type of radiation present; and
- radiation dosage monitoring.

3.5.6 Additional Considerations

Field work will contain a variety of situations due to chemicals in various concentrations and combinations. These situations may be partially ameliorated by following the work practices listed below:

1. Some sort of foot protection is needed on a site. If the ground to be worked on is contaminated with liquid and it is necessary to walk in the chemicals, some sort of protective "booties" can be worn over the boots. This cuts down on decontamination requirements. They are designed with soles to help prevent them from slipping around. If non-liquids are to be encountered, a Tyvek™ bootie could be used. If the ground contains any sharp objects, the advantage of booties is questionable. Boots should be worn with either cotton or wool socks to help absorb the perspiration.
2. If the site situation requires the use of hard hats, chin straps should be used if a person will be stooping over where his/her hat may fall off. Respirator straps should not be placed over the hard hats. This will affect the fit of the respirator.

   Some types of protective materials conduct heat and cold readily. In cold conditions, natural material clothing should be worn under the protective clothing. Protective clothing should be removed prior to allowing a person "to get warm". Applying heat, such as a space heater, to the outside of the protective clothing may drive the contaminants through. In hot weather, under clothing will absorb sweat. It is recommended that workers use all cotton undergarments.
3. Body protection should be worn and taped to prevent anything from running into the top of the boot. Gloves should be worn and taped to prevent substances from entering the top of the glove. Duct tape is preferred, but masking tape can be used. When aprons are used, they should be taped across the back for added protection. However, this should be done in such a way that the person has mobility.
4. Atmospheric conditions such as precipitation, temperature, wind direction, wind velocity, and pressure determine the behavior of contaminants in air or the potential for volatile material getting into the air. These parameters should be considered in determining the need for and the level of protection.
5. A program must be established for periodic monitoring of the air during site operations. Without an air monitoring program, any changes would go undetected and might jeopardize response personnel. Monitoring can be done with various types of air pumps and filtering devices followed by analysis of the filtration media; personnel dosimeters; and periodic walk-throughs by personnel carrying real-time survey instruments.
6. For operations in the exclusion zone, different levels of protection may be selected, and various types of chemical-resistant clothing may be worn. This selection should be based on the job function, reason for being in the area, and the potential for skin contact with, or inhalation of, the chemicals present.

7. Escape masks must be readily available when levels of respiratory protection do not include a SCBA and the possibility of an IDLH atmosphere exists. Their use can be made on a case-by-case basis. Escape masks could be strategically located at the site in areas that have higher possibilities of vapors, gases or particulates.

APPENDIX G

Generic Community Air Monitoring Plan (CAMP)

APPENDIX G

New York State Department of Health
Generic Community Air Monitoring Plan

Overview

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical-specific monitoring with appropriately sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for VOCs and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate DEC/NYSDOH staff.

Continuous monitoring will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. "Periodic" monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

4. All 15-minute readings must be recorded and be available for State (DEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

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

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.

2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

3. All readings must be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.

APPENDIX H

COVID-19 Interim Health and Safety Guidance

COVID-19 INTERIM HEALTH AND SAFETY GUIDANCE

CORPORATE HEALTH AND SAFETY MANAGER	**:**	**Brian Hobbs, CIH, CSP**
EFFECTIVE DATE	**:**	**03/2020**
REVISION DATE	**:**	**10/08/2020**
REVISION NUMBER	**:**	**5**

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1. PURPOSE

This guidance has been implemented to establish work practices, administrative procedures, and engineering controls to minimize potential exposure to SARS-CoV-2, the virus that causes COVID-19. The following guidance has been developed based on local, state and federal recommendations/requirements regarding COVID-19. The purpose of this document is to supplement existing site-specific Health and Safety Plans (HASPs) and provide interim health and safety guidance to minimize potential exposure to SARS-CoV-2. Should additional scientific information or regulatory information change, this document shall be updated accordingly.

2. SCOPE AND APPLICABILITY

This guidance covers all Roux employees and the subcontractors that Roux oversees. Site specific HASPs shall be developed to incorporate elements of mitigative measures against COVID-19 exposure. If work cannot be carried out in compliance with this guidance, the project shall be further evaluated by the Project Principal (PP), Office Manager (OM), and Corporate Health and Safety Manager (CHSM) prior to work authorization.

Roux subcontractors are required to review, comply with, and implement Roux's COVID-19 Interim Health and Safety Guidance while on site. Subcontractors may implement additional preventative measures as they see fit. All work shall be conducted in a manner consistent with the federal, state, and local guidance as it relates to COVID-19.

3. BACKGROUND

What is COVID-19?

COVID-19 is a respiratory illness that can spread from person to person. The virus that causes COVID-19 is a novel coronavirus that was first identified during an investigation into an outbreak in Wuhan, China. This virus continues to spread internationally and within the United States. There is currently no vaccine to prevent COVID-19.

What are the symptoms of COVID-19?

Reported illnesses have ranged from mild symptoms to severe illness and death for confirmed COVID-19 cases. Symptoms may appear 2 to 14 days following exposure to the virus. People with these symptoms or combinations of symptoms may have COVID-19:

- Fever or chills
- Cough
- Shortness of breath or difficulty breathing
- Fatigue
- Muscle or body aches
- Headache
- New loss of taste or smell
- Sore throat
- Congestion or runny nose
- Nausea or vomiting
- Diarrhea

This list is not all possible symptoms. The CDC will continue to update this list as they learn more about the virus. For an updated symptom list please reference the following link for CDC Symptoms of Coronavirus.

If someone develops emergency warning signs for COVID-19, they should be instructed to get medical attention immediately. Emergency warning signs can include those listed below; however, this list is not all inclusive. Please consult your medical provider for any other symptoms that are severe or concerning.

- Trouble breathing
- Persistent pain or pressure in the chest
- New confusion
- Inability to wake or stay awake
- Bluish lips or face

How does COVID-19 spread?[1]

SARS-COV-2 spreads very easily from person to person during close contact.

Individuals who are within close contact (within 6 feet) of a person with COVID-19 or have direct contact with that person are at greatest risk of infection.

- When people with COVID-19 cough, sneeze, sing, talk, or breathe they produce respiratory droplets. These droplets can range in size from larger droplets (some of which are visible) to smaller droplets. Small droplets can also form particles when they dry very quickly in the airstream.
- Infections occur mainly through exposure to respiratory droplets when a person is in close contact with someone who has COVID-19.
- Respiratory droplets cause infection when they are inhaled or deposited on mucous membranes, such as those that line the inside of the nose and mouth.
- As the respiratory droplets travel further from the person with COVID-19, the concentration of these droplets decreases. Larger droplets fall out of the air due to gravity. Smaller droplets and particles spread apart in the air.
- With passing time, the amount of infectious virus in respiratory droplets also decreases.

SARS-CoV-2 can sometimes spread by airborne transmission under certain circumstances.

Some infections can be spread by exposure to virus in small droplets and particles that can linger in the air for minutes to hours. These viruses may be able to infect people who are further than 6 feet away from the person who is infected or after that person has left the space. This kind of spread is referred to as **airborne transmission** and is an important way that infections like tuberculosis, measles, and chicken pox are spread.

- There is evidence that under certain conditions, people with COVID-19 seem to have infected others who were more than 6 feet away. These transmissions occurred within enclosed spaces that had inadequate ventilation. Sometimes the infected person was breathing heavily, for example while singing or exercising.
    - Under these circumstances, scientists believe the amount of infectious smaller droplet and particles produced by the people with COVID-19 became concentrated enough to spread the virus to other people. The people who were infected were in the same space during the same time or shortly after the person with COVID-19 had left.
- Available data indicate it is much more common for the virus that causes COVID-19 to spread through close contact with a person who has COVID-19 than through airborne transmission.[2]

Spread from contact with contaminated surfaces or objects is less common.

Respiratory droplets can also land on surfaces and objects. It is possible that a person could get COVID-19 by touching a surface or object that has the virus on it and then touching their own mouth, nose, or eyes. Spread from touching surfaces is not thought to be a common way that COVID-19 spreads.

4. TRAINING REQUIREMENTS

All employees with potential exposure to COVID-19 shall be provided training that incorporates COVID-19 exposure mitigation strategies, such as implementation of proper social distancing, personal hygiene (e.g., handwashing), as well as disinfection procedures, as outlined by CDC guidelines.

5. EXPOSURE RISK POTENTIAL

Worker risk of occupational exposure to COVID-19 can vary from very high, high, medium, or lower (caution) risk. This level of exposure is dependent on several factors, which can include industry type; need for contact within

1 How COVID-19 Spreads https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/how-covid-spreads.html#edn1

2 Scientific Brief: SARS-CoV-2 and Potential Airborne Transmission | CDC https://www.cdc.gov/coronavirus/2019-ncov/more/scientific-brief-sars-cov-2.html

6 feet of people known to be or suspected of being infected with COVID-19; density of work environment; and industrial setting (i.e., healthcare building, occupied interior work area, minimal ventilation).

Provided below is background risk level information taken from the U.S. Department of Labor Occupational Safety and Health Administration Guidance on preparing workplaces for COVID-19. Risk evaluations for each project shall be conducted by the PP and OM in consultation with the CHSM to ensure Roux employees and subcontractors remain within the lower exposure (caution) category. If it is identified there is a medium exposure risk or higher, further evaluation and mitigative measures shall be evaluated to reduce overall exposure risk prior to work authorization.

Very High Exposure Risk (Activities not conducted by Roux)

Very high exposure risk includes occupations/work activities with high potential for exposure to known or suspected sources of COVID-19 during specific medical, postmortem, or laboratory procedures. This can include but is not limited to:

- Healthcare workers (e.g., doctors, nurses, dentists, paramedics, emergency medical technicians) performing aerosol-generating procedures (e.g., intubation, cough induction procedures, bronchoscopies, some dental procedures and exams, or invasive specimen collection) on known or suspected COVID-19 patients.
- Healthcare or laboratory personnel collecting or handling specimens from known or suspected COVID-19 patients (e.g., manipulating cultures from known or suspected COVID-19 patients).
- Morgue workers performing autopsies, which generally involve aerosol-generating procedures on the bodies of people who are known to have, or suspected of having, COVID-19 at the time of their death.

High Exposure Risk (Activities not conducted by Roux)

High exposure risk occupations/work activities include exposure to known or suspected COVID-19 positive individuals. This can include but not limited to:

- Healthcare delivery and support staff (e.g., doctors, nurses, and other hospital staff who must enter patients' rooms) exposed to known or suspected COVID-19 patients. (Note: when such workers perform aerosol-generating procedures, their exposure risk level becomes very high.)
- Medical transport workers (e.g., ambulance vehicle operators) moving known or suspected COVID-19 patients in enclosed vehicles.
- Mortuary workers involved in preparing (e.g., for burial or cremation) the bodies of people who are known to have, or suspected of having, COVID-19 at the time of their death.

Medium Exposure Risk

Medium exposure risk occupations/work activities include those that require frequent and/or close contact with (i.e., within 6 feet of) people who may be infected with COVID-19, but who are not known or suspected to be COVID-19 positive. For most of our worksites, it is assumed there is on-going community transmission for COVID-19. Therefore, workers who work at sites and may have contact with the general public, other contractors, high-population-density work environments (i.e., greater than 10 people) fall within medium exposure risk group category. This can include, but is not limited to, sampling events that require two or more workers to collect and log samples in close contact or work occurring in an interior space with limited ventilation and several workers present.

Lower Exposure Risk (Caution)

Lower exposure risk (caution) occupations/work activities are those that do not require contact with people known to be or suspected of being COVID-19 positive. During these activities, there is limited contact (i.e., within 6 feet of) the general public or other workers. Workers in this category have minimal occupational contact with the public and other coworkers. This can include construction oversight that does not require close contact as well as sampling or gauging events performed by one worker.

6. COVID-19 HEALTH SCREENING

6.1 Roux Employees

All Roux employees are required to self-attest to a COVID-19 Daily Health Questionnaire which is to be completed at home through a mobile application on scheduled workdays. The purpose of this program is to ensure business continuity as well as mitigate any potential exposure to our employees and others if it is determined employees are at-risk for contracting COVID-19. As part of this self-attestation, all employees are required to take their temperatures daily at home to confirm they do not have a fever (≥ 100.4). Employees who answer yes to any of these questions are instructed to contact their Office Manager and/or Department Head immediately and should not enter the office or go to a field site. Information shall be used to determine appropriate internal response in consultation with the Human Resources Director and Corporate Health and Safety Manager.

Below, you will find our COVID-19 Daily Health Questionnaire that all Roux employees are required to self-attest to **every scheduled workday by 9:30 am.** If employees do not promptly fill out the questionnaire by the time listed above, there will be additional follow up by HR, H&S, and/or OMs.

According to the U.S. Centers for Disease Control and Prevention & the World Health Organization, COVID-19 Symptoms include:

- *Fever (≥100. 4ºF) or chills*
- *Cough*
- *Shortness of breath or difficulty breathing*
- *Fatigue*
- *Muscle or body aches*
- *Headache*
- *New loss of taste or smell*
- *Sore throat*
- *Congestion or runny nose*
- *Nausea or vomiting*
- *Diarrhea*

Have you experienced any of the COVID-19 related symptoms noted above in the last 14 days? Please Note: We do not expect employees to answer "yes" to the symptoms question if these are symptoms you normally experience due to another condition or medication.

- *Yes*
- *No*

Have you been in close contact with someone who is suspected or confirmed to have COVID-19 or who is under investigation for COVID-19 within the last 14 days? *Close contact is defined as someone who was within 6 feet of an infected person for at least 15 minutes or coming into direct contact with secretions (e.g., sharing utensils, being coughed on) from an infected person.*

- *Yes*
- *No*

Have you traveled outside of the country, been on a cruise ship and/or traveled to areas within the United States which have state mandated travel restrictions in the last 14 days?

- *Yes*
- *No*

Have you tested positive for COVID-19 within the last 14 days?

- *Yes*
- *No*

6.2 Subcontractors

In an effort to mitigate the risk of transmission of COVID-19, Subcontractors who shall perform work on-site are required to attest to the fitness of their work crew on a daily basis. This requires each worker to self-assess by asking themselves the four questions listed in the section above and also contained within the Roux Subcontractor Work Crew COVID-19 Daily Health Attestation. If any crew member answers "yes" to any of the questions, that worker is not to report to the field site and should seek proper medical advice, in accordance with local, state and federal guidelines.

On a daily basis, the subcontractor supervisor must provide the Subcontractor Work Crew COVID-19 Daily Health Attestation complete with the names of all work crew fit to be on the site for that day (i.e., who have answered "no" to all questions on the self-assessment) to Roux's Project Manager. The Subcontractor must notify Roux if there have been any "yes" responses daily. Subcontractors shall not be required to provide the name or any other personal information of any employee who has answered "yes" to any of the self-assessment questions, however, the subcontractor should provide the date and times that employee has been onsite in the prior 14 days. Records shall be maintained within the project files indicating health screening has been performed, records shall be retained for not less than 14 days following the date of submission. The Roux Subcontractor Work Crew COVID-19 Daily Health Check Attestation can be found within Appendix A.

7. SELF-ISOLATION & QUARANTINE

7.1 Self-Isolation

What if I am asked to self-isolate at home and when can I return from home isolation?

Depending on the situation, if you are COVID-19 positive or suspected to have COVID-19, employees may be required to self-isolate in their homes as per CDC or local health department guidelines. As per CDC guidance, return from isolation has been broken out into two categories. The first includes confirmed or suspected COVID-19 individuals exhibiting symptoms and the second includes those who have not had COVID-19 symptoms (i.e., asymptomatic) but tested positive and are under self-isolation. Both categories, along with strategies to return from home isolation, are outlined below.

People with COVID-19 under home isolation:

Accumulating evidence supports ending isolation and precautions for persons with COVID-19 using a symptom-based strategy. Specifically, researchers have reported that people with mild to moderate COVID-19 remain infectious no longer than 10 days after their symptoms began, and those with more severe illness or those who are severely immunocompromised remain infectious no longer than 20 days after their symptoms began. Therefore, CDC has updated the recommendations for discontinuing home isolation as follows:

1. **Persons with COVID-19 who have symptoms** and were directed to care for themselves at home may discontinue isolation under the following conditions:
   a. At least 10 days* have passed since symptom onset;
   b. at least 24 hours have passed since resolution of fever without the use of fever-reducing medications; and
   c. other symptoms have improved.

* *A limited number of persons with severe illness may produce replication-competent virus beyond 10 days, which may warrant extending the duration of isolation for up to 20 days after symptom onset. Consultation with your healthcare provider will be warranted in such cases of severe illness.*

2. **Persons infected with SARS-CoV-2 who never develop COVID-19 symptoms** may discontinue isolation and other precautions 10 days after the date of their first positive RT-PCR test for SARS-CoV-2 RNA.

7.2 Quarantine

Employees may be required to self-quarantine due to potential exposure with a suspected and/or confirmed COVID-19 positive individual as well as recent travel as per local/state guidelines. People in quarantine should stay home, separate themselves from others, monitor their health, and follow directions from their state or local health department. If Roux employees meet the criteria to self-quarantine based on potential exposure/travel, they are required to self-quarantine for 14 days regardless of local/state exemptions. Even if you test negative for COVID-19 or feel healthy, symptoms may still appear 2 to 14 days after exposure to the virus.

7.2.1 Close Contact Quarantine

Employees who have come into close contact with someone who has COVID-19 are required to self-quarantine for 14 days following their last contact with the COVID-19 positive person. Close contact can be defined as being within 6 feet of someone who has COVID-19 for a total of 15 minutes or more, providing care at home to someone who is sick with COVID-19, having direct physical contact with COVID-19 individual, sharing utensils with COVID-19 individual, and being sneezed/coughed on by someone with COVID-19.

7.2.2 Travel Related Quarantine

All travel out of state must be communicated with the OM and/or Department Head prior to departure. Please note, some state/local entities require submissions of traveler health forms. It is expected all Roux employees will comply with such state/local travel requirements. All employees returning from international and/or cruise ship travel must quarantine for 14 days from the time they have returned home.

Personal Travel

Employees who will be traveling out of state are responsible for checking the local/state quarantine guidance for the regions they are traveling from and to in advance of travel and notifying their OM prior to traveling in order to evaluate the impact on the business. Based on state/local guidelines you may be required to quarantine for 14 days from the time you have returned home.

Work-Related Travel

The Project Team (i.e., PM & PP) and field staff who will be traveling are responsible for checking the local/state quarantine guidance for the regions they are traveling from and to in advance of travel and notifying their OM prior to traveling in order to evaluate the impact to the business. Additionally, health and safety considerations shall be reviewed by the OM in consultation with the CHSM regarding logistics and overnight accommodations. Based on state/local guidelines, you may be required to quarantine for 14 days from the time you have returned home.

8. WORKPLACE CONTROLS

During the project planning phase, worksite evaluations shall be carried out by the PP and OM in consultation with the CHSM to determine risk exposure levels for work activities. If it is determined there is a medium exposure risk level or higher, additional workplace controls shall be evaluated and implemented as required in addition to the basic infection prevention measures outlined below in Section 8. Additional workplace controls can include engineering controls (i.e., ventilation, physical barriers), administrative controls (i.e., minimizing contact between workers, rotating shifts, site specific training), and additional personal protective equipment (i.e., respiratory protection). If exposure risk cannot be mitigated, potential project postponement may be necessary at the discretion of the OM in consultation with the CHSM.

A Job Safety Analysis (JSA) has been developed and is provided in Appendix B, which summarizes and applies concepts within this guidance including the infection prevention measures listed below. This JSA shall be required for all field work in areas where there is community-based transmission of COVID-19.

9. INFECTION PREVENTION MEASURES

The following is basic infection prevention and personal hygiene practices which shall be implemented for all Roux field activities as well as in the office setting.

- ***Personal Hygiene***
  - Wash your hands often with soap and water for at least 20 seconds.
    - If soap and water are not available, use an alcohol-based sanitizer that contains at least 60% ethanol or 70% isopropanol.
    - Key times to wash your hands include after blowing your nose, coughing or sneezing, after using the restroom, and before eating or preparing food.
  - Do not touch your eyes, face, nose and mouth with unwashed hands.
  - Cover your mouth and nose with a tissue when you cough or sneeze or use the inside of your elbow.
  - Throw potentially contaminated items (e.g., used tissues) in the trash.
- ***Avoid Close Contact/Secondary Contact with People and Potentially Contaminated Surfaces***
  - Apply appropriate social distance (6+ feet).
  - Stop handshaking—use and utilize other noncontact methods for greeting.
  - Do not work in areas with limited ventilation with other Site workers (e.g., small work trailer which lacks HVAC system). If working in a trailer, the following conditions must be met: limited to 4 workers, large enough to have the ability to apply social distance and has open windows and/or operational HVAC to ensure proper ventilation of the workspace.
  - Morning tailgate/safety meetings shall occur outside and not within work trailers.
    - Do not require employees or subcontractors to sign in using the same tailgate form. The Site Supervisor/SHSO should record names of those in attendance on the form.
    - If the Site has more than 10 workers, separate tailgate meetings should be performed in smaller groups.
  - Do not share equipment or other items with co-workers and subcontractors unless wearing appropriate PPE (e.g., nitrile gloves). Assume equipment and other surfaces are potentially contaminated and remove gloves aseptically.
  - If receiving labware or other equipment disinfect to the extent feasible. If there are concerns for contaminating labware please wear appropriate PPE (e.g., gloves) to minimize contact.
  - Contact your lab/equipment vendor to confirm equipment is properly disinfected prior to being shipped.
  - Do not carpool with others (e.g., clients, coworkers).
  - For company owned vehicles limit sharing of vehicles with coworkers. If unable to limit sharing of company owned vehicles, properly disinfect vehicle before driving with a focus on commonly touched surfaces (e.g., steering wheels, shifters, buttons, etc.).
  - Use caution when using public restrooms, portable toilets. Use paper towel as a barrier when touching door handles and faucets.
- ***Cleaning and Disinfecting***
  - Clean and disinfect frequently touched surfaces daily. Commonly touched items can include but are not limited to tables, doorknobs, light switches, countertops, handles, desks, phones, keyboards, toilets, faucets, sinks, and field equipment (i.e., photo-ionization detector, field equipment).
  - **Hard (Non-porous) Surfaces**
    - If surfaces are dirty, they should be cleaned with a detergent/soap and water prior to disinfection.

- Refer to the manufacturer's instructions to ensure safe and effective use of the product and wear appropriate personal protective equipment (e.g., gloves, safety glasses, face shield).
- Many products require:
  - Keeping surface wet for a period of time (i.e., contact time)
    - Refer to manufacturer's instructions outlining adequate contact time.
  - Precautions such as wearing gloves and making sure you have good ventilation during use of the product.
- Disposable gloves should be removed aseptically and discarded after cleaning. Wash hands immediately following removal of gloves. Refer to Appendix C for how to remove gloves aseptically.
- For disinfection, diluted household bleach solutions, alcohol solutions with at least 70% alcohol, and most common EPA-registered household disinfectants should be effective.
  - Diluted household bleach solutions can be used if appropriate for the surface. Follow manufacturer's instructions for application and proper ventilation. Check to ensure the product is not past its expiration date. Never mix household bleach with ammonia or any other cleanser. Unexpired household bleach will be effective against coronaviruses when properly diluted. Leave the solution on the surface for at least 1 minute.
    - Prepare a bleach solution by mixing:
      - 5 tablespoons (1/3 cup) bleach per gallon of water or
      - 4 teaspoons bleach per quart of water
- Products with EPA-approved emerging viral pathogen claims are expected to be effective against COVID-19. Follow the manufacturer's instructions for all cleaning and disinfecting products (e.g., concentration, application method and contact time, etc.).

- **Soft (Porous) Surfaces**
  - For soft (porous) surfaces, remove visible contamination if present and clean with appropriate cleaners indicated for use on the surfaces. After cleaning:
    - Launder items as appropriate in accordance with the manufacturer's instructions. If possible, launder using the warmest appropriate water setting for the item and dry items completely; or
    - Use products with the EPA-approved emerging viral pathogens that claim they are suitable for porous surfaces.
- **Electronics**
  - For electronics such as tablets, touch screens, keyboards, remote controls, etc. remove visible contamination if present.
    - Follow the manufacturer's instructions for all cleaning and disinfection products.
    - Consider use of wipeable covers for electronics.
    - If no manufacturer guidance is available, consider the use of alcohol-based wipes or sprays containing at least 70% alcohol to disinfect touch screens. Dry surfaces thoroughly to avoid pooling of liquids.
- ***Linens, Clothing, and Other Items that Go in the Laundry***
  - Although it is unlikely field clothing would become potentially contaminated with COVID-19, it is recommended that field staff regularly launder field clothing following any field event upon returning home.
  - In order to minimize the possibility of dispersing the virus from potentially contaminated clothing, do not shake dirty laundry.
  - Wash items as appropriate in accordance with the manufacturer's instructions. If possible, launder items using the warmest appropriate water setting for the items and dry items completely.
  - Clean and disinfect hampers or other containers used for transporting laundry according to guidance listed above.

10. CLOTH FACE COVERINGS

The CDC recommends the use of cloth face coverings in public settings where other social distancing measures are difficult to maintain, such as grocery stores and pharmacies, and especially in areas of significant community-based transmission. This recommendation is based on recent studies and an understanding that a significant portion of asymptomatic, as well as pre-symptomatic, individuals can shed the virus to others before showing symptoms. Studies indicate that COVID-19 can spread among people interacting in close proximity through speaking, coughing, or sneezing. The purpose of the cloth covering is NOT to provide protection to the wearer, but to protect the wearer from unknowingly infecting others if they are asymptomatic/pre-symptomatic. The use of cloth face coverings is to supplement and NOT replace the existing practices outlined above.

Based on existing studies and on-going recommendations and/or requirements from federal, state, and local entities, Roux is recommending the use of cloth face coverings, when appropriate. Appropriate use is defined when local authorities or clients require the use of cloth face coverings in conjunction with established social distancing, or if an employee elects to use a cloth covering on their own accord. Roux will provide cloth face coverings that shall meet the basic requirements outlined by the CDC guidance.

Cloth Face Coverings should:

- Fit snugly but comfortably against the side of the face;
- Be secured with ties or ear loops, when possible;
- May include multiple layers of fabric;
- Allow for breathing without restriction; and
- Be able to be laundered and machine dried with no damage or change to shape.

When donning and doffing the cloth face covering, individuals should avoid touching their eyes, nose, and mouth. Following removal of the cloth face covering, employees should wash their hands immediately using the guidelines described in Section 8 above. Cloth face coverings should be routinely washed depending on the frequency of use.

The use of existing cloth covering products/materials, such as a scarf, neck gaiter, or bandana, is deemed acceptable by the CDC. Note, the cloth face coverings recommended are not surgical masks or N-95 respirators. Those are critical supplies that must continue to be reserved for healthcare workers and other medical first responders, as recommended by current CDC guidance. Should there be a requirement for workers to be in respiratory protection (e.g., full-face respirator w/cartridges, P100, N95 respirators), it shall be addressed during the project pre-planning phase, which includes discussions with the PP and OM in consultation with CHSM.

11. HOTEL SELECTION PROCESS AND OVERNIGHT/REMOTE WORK

Hotel Selection

Due to the current COVID-19 situation, Roux is recommending overnight travel be limited to the extent possible. If there is a project requiring the overnight stay at a hotel, accommodations shall be made only after the hotel and hotel's location have been vetted in accordance with Roux's established guidance as defined below. The Project Team, which includes the Project Manager (PM) and PP along with the OM, in consultation with the CHSM, shall verify the hotel has appropriate protocols in place to limit the potential exposure and spread of COVID- 19 through proper cleaning and disinfection practices. Discussions with the hotel shall include, but are not limited to, measures taken to keep guests safe during their stay, guest room sanitization schedule, training of staff regarding disinfecting protocols using EPA-approved disinfectants, hotel staff fitness for duty requirements, etc. Some example questions are listed below. Following the initial hotel assessment by the Project Team, the OM and the CHSM shall review the hotel assessment findings prior to the CHSM's authorization that the hotel may be used by any Roux employees.

Sample Questions for Evaluating Hotels

1. Is there an established COVID-19 guidance/policy your location is following?
2. What additional measures are being implemented to keep workers and customers safe?; (e.g. signs/placards, social-distancing/mask reminders)
3. Is there a guest room sanitization schedule?
4. Have staff been trained on properly cleaning/disinfecting areas?
5. What types of disinfectants are in use at your location?
6. How are you evaluating staff fitness for duty? (e.g., temperature checks, not reporting to work when sick, etc.)

Employees staying overnight should abide by the following guidance:

- Ensure you properly disinfect your room upon arrival. This should include a wipe down of all commonly touched surfaces with an approved disinfectant. Use appropriate PPE (e.g., nitrile gloves) when disinfecting surfaces.
- Place the "Do Not Disturb" placard on the room while away and consider limiting hotel housekeeping service to the extent feasible (e.g., not having the room cleaned each day) to minimize potential secondary contact with others.
- Do not spend any more time in hotel common areas (i.e., lobby, hallways, etc.) than is necessary.
- Follow proper Infection Prevention Measures found within Section 8 above.
- Have meals in your hotel room after disinfecting outer package surfaces, as outlined in Section 8 above. Do not eat in public spaces or restaurants.
- If the hotel has a restaurant or café, do not have your meal in a common area; instead order food to be picked up or delivered to your room. If delivered, opt for contactless delivery (left outside the door, delivery person knocks and leaves). Always use your own pen if you need to sign something.
- Employees may also pick up food from takeout locations, order groceries or food for delivery to the hotel. Call local restaurants to order food for delivery (call the hotel lobby for recommendations) or use food ordering apps. Some apps have options for contactless delivery.

12. TRANSPORTATION-RENTAL CARS AND ROUX-OWNED VEHICLES

Rental Cars

Due to the current COVID-19 situation, Roux recommends rental car usage be limited to the extent possible. If there is a project requiring the use of a rental car (e.g. truck/van), accommodations shall be made only after the rental car company and their store's location have been vetted in accordance with Roux's established guidance, as defined below. The Project Team (PM and PP) and OM in consultation with the CHSM shall verify the rental company where you are picking up your vehicle has appropriate protocols in place to limit the potential exposure and spread of COVID- 19 through proper cleaning and disinfection practices. Discussions with the rental car company shall include, but are not limited to, measures to be taken to keep customers safe during pickup/drop-off, rental car disinfection protocols, training of staff regarding disinfecting protocols using EPA-approved disinfectants, rental car company staff fitness for duty requirements, etc. Some example questions are listed below. Following the initial rental car company store assessment by the Project Team, the OM and the CHSM shall review the rental car company assessment findings prior to the CHSM's authorization that the rental car company store may be used by any Roux employees.

Sample Questions for Evaluating Rental Car Companies

1. Is there an established COVID-19 guidance your location is following?
2. What additional measures are being implemented to keep workers and customers safe?
3. Is there a car sanitization schedule?

4. Have staff been trained on properly cleaning/disinfecting vehicles?
5. What types of disinfections are in use at your location?
6. How are you evaluating staff fitness for duty? (e.g., temperature checks, not reporting to work when sick, etc.)

Upon vehicle pickup, employees shall don nitrile gloves and safety glasses and clean/disinfect all high-touch surfaces (steering wheel, knobs, door handles, turn signals, radio, etc.) by wiping thoroughly with approved disinfectants (following manufacturer's instructions). Aseptically remove gloves and dispose of them along with rags/wipes, appropriately. Wash hands or use hand sanitizer immediately after each episode of cleaning. Due to social distancing requirements, personnel shall not carpool to destinations.

Roux-Owned Vehicles

Due to the current COVID-19 situation, Roux-owned vehicles should be dedicated to individual employees to the extent feasible, and if authorized by the OM. In the case this cannot be accommodated, employees shall don nitrile gloves and safety glasses, and clean/disinfect all high-touch surfaces (steering wheel, knobs, door handles, turn signals, radio, etc.) by wiping thoroughly with approved disinfectants (following manufacturer's instructions). This cleaning and disinfection shall occur before and after each use of the vehicle. Aseptically remove gloves and dispose of them along with rags/wipes, appropriately. Wash hands or use hand sanitizer immediately after each episode of cleaning. Due to social distancing requirements, personnel shall not carpool to destinations.

APPENDIX A

Roux Subcontractor Work Crew

COVID-19 Daily Health Screening Questionnaire

ROUX

Subcontractor Work Crew
COVID-19 Daily Health Attestation

Date:	
Company Name:	
Supervisor Name:	Signature:
Project Name:	
Site Address:	
Number of Workers on site:	

Prior to entry onto a field site, the following questions shall be asked by the Subcontractor Supervisor to their work crew.

It is preferred this questionnaire is completed for each individual prior to their arrival at the field site. If the answer to any of these questions is YES, the worker is not to report to the field site and seek proper medical advice, in accordance with CDC Guidelines.

The Subcontractor Supervisor must provide this form on a daily basis to the Roux primary contact for the project and notify Roux of any YES responses.

1. Have you experienced any signs/symptoms of COVID-19 such as fever (≥100.4ºF), cough, shortness of breath, chills, fatigue, muscle/body aches, headache, new loss of taste or smell, sore throat, congestion or runny nose, nausea/vomiting or diarrhea in the last 14 days?

2. Have you been in close contact* with someone who is suspected or confirmed to have COVID-19 or who is under investigation for COVID-19 within the last 14 days?

*Close contact is defined as someone who was within 6 feet of an infected person for at least 15 minutes or coming into direct contact with secretions (e.g. sharing utensils, being coughed on) from an infected person.

3. Have you traveled outside of the country, been on a cruise ship and/or traveled to areas within the United States which have state mandated travel restrictions in the last 14 days?

4. Have you tested positive for COVID-19 within the last 14 days?

Please list the crew member's names on site for the day.

1.	9.
2.	10.
3.	11.
4.	12.
5.	13.
6.	14.
7.	15.
8.	16.

APPENDIX B

Job Safety Analysis-Working in Areas Affected by COVID-19

JOB SAFETY ANALYSIS	Ctrl. No. CVD-19	DATE: 04/16/2020	☒ NEW ☐ REVISED	PAGE 1 of 2

JSA TYPE CATEGORY	WORK TYPE	WORK ACTIVITY (Description)
Generic	**Fieldwork**	**Working in Areas Affected by Coronavirus**

DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE
Kristina DeLuca	Health and Safety Specialist	Brian Hobbs	CHSM

REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

☐ LIFE VEST	☐ GOGGLES	☐ AIR PURIFYING RESPIRATOR	☒ GLOVES – Leather/cut-resistant in field and nitrile as needed
☒ HARD HAT – In field	☐ FACE SHIELD	☐ SUPPLIED RESPIRATOR	☐ OTHER
☐ LIFELINE / BODY HARNESS	☐ HEARING PROTECTION	☒ PPE CLOTHING – High visibility vest in field	
☒ SAFETY GLASSES – In field	☒ SAFETY SHOES – Steel/composite toe in fie		

REQUIRED AND / OR RECOMMENDED EQUIPMENT

Cloth face covering, nitrile gloves, hand soap, water source, hand sanitizer, disinfectant spray and disinfectant wipes.

Commitment to Safety – All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.

SOCIAL DISTANCING: Maintain 6' of distance between yourself and all other people at all times. If you do not believe the scope of work can be conducted while maintaining this distance, contact your Project Manager immediately.

Assess [1]JOB STEPS	Analyze [2]POTENTIAL HAZARDS	Act [3]CRITICAL ACTIONS
1. Project Preplanning	N/A	• Review and follow COVID-19 CDC, Roux, Client and local orders/protocols. • Ensure all workers are fit for duty - anyone feeling sick should remain at home even if symptoms do not align with COVID-19. If a worker has been in contact with someone potentially positive or positive for COVID-19, contact your Office Manager. • Determine PPE needs and ensure adequate supply of disinfectant wipes/spray, soap and water or hand sanitizer at Site. Due to high demands and limited supply, plan ahead. • Use the minimum number of employees necessary to safely complete the work.
2. Mobilization	**Exposure:** Becoming infected or infecting co-workers	**Personal/Rental/Roux Owned Vehicle** • Do not carpool. • Use the same vehicle every day and do not share with co-workers. • Verify workers/other people are not approaching vehicle prior to exiting the vehicle. Maintain 6' of distance from others. • DO not valet your car or allow others to use your car. If necessary, don nitrile gloves and safety glasses and clean/disinfect all high touch surfaces (steering wheel, knobs, door handles, turn signals, radio, etc.) by wiping thoroughly with approved disinfectants (follow manufacturer's instructions). This cleaning and disinfection shall occur before and after each use of the vehicle. Aseptically remove gloves and dispose of them along with rags/wipes, appropriately. Wash hands or use hand sanitizer immediately after each episode of cleaning. **Public Transportation** • Public transit should not be used unless absolutely necessary. Consider renting a car rather than taking public transit. If public transit is required, wear appropriate PPE and apply social distancing (6 ft). Use proper donning and doffing procedures for nitrile gloves. Wash hands or use hand sanitizer immediately after. **Hotel Stay (Refer to COVID-19 H&S Guidance for more info)** • If a hotel stay is deemed necessary for the given field work, ensure that you disinfect your room upon initial arrival and returning each day. Disinfect all surfaces of your room with an appropriate disinfectant using nitrile gloves. Use proper donning and doffing procedures for nitrile gloves. • Place the "Do Not Disturb" placard on the room while away and limit housekeeping services to the extent feasible during your stay to minimize the reintroduction and spread of the virus from others. Minimize, or avoid entirely, time spent in hotel common areas (i.e., the lobby, dining areas, gyms, etc.). Wash hands or use hand sanitizer often.

[1] Each Job or Operation consists of a set of tasks / steps. Be sure to list all the steps needed to perform job.
[2] A hazard is a potential danger. Break hazards into six types: Contact - victim is struck by or strikes an object; Caught - victim is caught on, caught in or caught between objects; Fall - victim falls to ground or lower level (includes slips and trips); Exertion - excessive strain or stress / ergonomics / lifting techniques; Exposure - inhalation/skin hazards, energy source; Energy Source – electricity, pressure, compression/tension.
[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

3. Tailgate Meeting	**Exposure:** Becoming infected or infecting co-workers	• Must occur outside or remotely (i.e. video or conference call). • Maintain at least a 6+ ft distance between you and others. • Discuss primary infection prevention measures listed below. • Do not require employees or subcontractors to sign in, the Site Supervisor shall record names on the attendance form. • If the Site has more than 10 workers, separate tailgate meetings should be performed. • Discuss COVID-19 symptoms with coworkers and subcontractors to ensure fitness for duty. Anyone exhibiting signs or symptoms should be instructed to leave the Site, contact your Project Manager.
4. Site Activities	**Exposure:** Becoming infected or infecting co-workers	• Coordinate field activities at the beginning of the day (i.e. Tailgate meeting) to minimize time spent in crowded spaces or overlap while completing job tasks. • Don cloth face coverings as appropriate. • Apply social distancing (6+ ft) when interacting with others. If anyone comes within 6 ft of you while conducting work and your work prevents you from moving away, politely ask them to move back. If others are unable to move from your space, stop work and leave area. • Do not shake hands or touch others. • Do not share equipment or other items with co-workers and subcontractors unless wearing appropriate PPE (e.g. nitrile gloves). Assume equipment and other surfaces are potentially contaminated and remove gloves aseptically. • If anyone is coughing or sneezing in your vicinity, stop work and leave the area. • Do not work in areas with limited ventilation with others. • Cover your mouth and nose with tissue or paper towel or with your elbow when coughing or sneezing and wash hands or use hand sanitizer immediately after. If sick contact SHSO/PM and leave Site immediately. • Disinfect work surfaces/areas with approved disinfectant you're responsible for (ex: desk, office doorknob, computer, etc.) at least once at the beginning of your shift and at least once at the end of your shift with either sanitizing wipes or disinfectant spray. • Phones should be operated hands free to extent feasible. Sanitize your phone on a regular basis. Disinfection should also take place whenever suspected contaminated material comes in contact with any work surfaces/areas. Wash hands or use hand sanitizer immediately after. • Avoid public spaces and going out to eat by bringing your own lunch to the Site. If performing work in high density urban areas, it is recommended all food must be consumed at or in your vehicle. Wash hands or use hand sanitizer before eating and immediately after.

Primary Infection Prevention Measures

- Wash your hands often with soap and water for at least 20 seconds.
  - If soap and water are not available, use an alcohol-based sanitizer that contains at least 60% ethanol or 70% isopropanol. Key times to wash hands include after blowing your nose, coughing or sneezing, after using the restroom, and before eating or preparing food.
- Do not touch your eyes, face, nose and mouth with unwashed hands.
- Cover your mouth and nose with a tissue when you cough or sneeze or use the inside of your elbow. Throw potentially contaminated items (e.g. used tissues) in the trash.
- Avoid close contact/secondary contact with people and potentially contaminated surfaces.
  - Apply appropriate social distance (6+ feet).
  - Stop handshaking/touching others and use caution when accessing public spaces.
- Clean and disinfect frequently touched surfaces daily. Commonly touched items can include but are not limited to tables, doorknobs, light switches, countertops, handles, desks, phones, keyboard, toilets, sinks and field equipment. If surfaces are dirty, they should be cleaned with soap and water prior to disinfection. If surface cannot be cleaned/disinfected, then wash hands or use sanitizer as soon as possible.

[1] Each Job or Operation consists of a set of tasks / steps. Be sure to list all the steps needed to perform job.
[2] A hazard is a potential danger. Break hazards into six types: Contact - victim is struck by or strikes an object;
Caught - victim is caught on, caught in or caught between objects; Fall - victim falls to ground or lower level (includes slips and trips); Exertion - excessive strain or stress / ergonomics / lifting techniques; Exposure - inhalation/skin hazards; Energy source – electricity, pressure, compression/tension.
[3] Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

APPENDIX C

How to Remove Gloves

How to Remove Gloves

To protect yourself, use the following steps to take off gloves

1

Grasp the outside of one glove at the wrist. Do not touch your bare skin.

2

Peel the glove away from your body, pulling it inside out.

3

Hold the glove you just removed in your gloved hand.

4

Peel off the second glove by putting your fingers inside the glove at the top of your wrist.

5

Turn the second glove inside out while pulling it away from your body, leaving the first glove inside the second.

6

Dispose of the gloves safely. Do not reuse the gloves.

7

Clean your hands immediately after removing gloves.