



TECHNICAL  
SERVICES

**PHASE II**  
**ENVIRONMENTAL SITE ASSESSMENT**

**Wallace Campus**  
**319, 325, 327-329, and 331 Main Street**  
**City of Poughkeepsie**  
**Dutchess County, New York**

**October 28, 2020**

**GBTS File: 20-0213**

---

22 IBM Road – Suite 101  
Poughkeepsie, NY 12601  
(845) 452-1658 [www.gallagherbassett.com](http://www.gallagherbassett.com)

**PHASE II**  
**ENVIRONMENTAL**  
**SITE ASSESSMENT**

**October 28, 2020**

**GBTS File: 20-0213**

**Prepared By:**

**Gallagher Bassett Technical Services  
22 IBM Road – Suite 101  
Poughkeepsie, New York 12601**

**Prepared For:**

**Urban Green Equities LLC  
93 Fourth Ave #1289  
New York, New York 10276**

Environmental investigation services were performed by Gallagher Bassett Technical Services (GBTS). The undersigned have reviewed this Phase II Environmental Site Assessment and certify to Urban Green Equities LLC that the information provided in this document is accurate as of the date of issuance by this office.



\_\_\_\_\_  
Erick Salazar  
Gallagher Bassett Technical Services  
Environmental Scientist



\_\_\_\_\_  
Scott Spitzer  
Gallagher Bassett Technical Services  
Technical Director – Environmental Consulting

## TABLE OF CONTENTS

<b>1.0</b>	<b>INTRODUCTION.....</b>	<b>1</b>
1.1	Purpose .....	1
1.2	Limitations .....	1
1.3	Site Location and Description .....	1
1.4	Previous Environmental Reports .....	2
<b>2.0</b>	<b>SUBSURFACE INVESTIGATION.....</b>	<b>3</b>
2.1	Summary of Services.....	3
2.2	Fieldwork Activities.....	3
	2.2.1 Site Preparation Services	
	2.2.2 Fieldwork Methodology	
2.3	Laboratory Analysis.....	6
	2.3.1 Standards, Criteria and/or Guidance	
	2.3.2 Sample Submission	
	2.3.3 Laboratory Results	
<b>3.0</b>	<b>CONCLUSIONS AND RECOMMENDATIONS.....</b>	<b>9</b>

## APPENDICES

<i>A</i>	<i>Figures</i>
<i>B</i>	<i>Boring Logs and Groundwater Sampling Logs</i>
<i>C</i>	<i>Data Summary Tables</i>
<i>D</i>	<i>Laboratory Reports</i>
<i>E</i>	<i>Previous Reports</i>

## **1.0 INTRODUCTION**

### **1.1 Purpose**

This Phase II Environmental Site Assessment (Report) documents environmental fieldwork performed by Gallagher Bassett Technical Services (GBTS) at the Wallace Campus property, located at 319, 325, 327-329, and 331 Main Street, Poughkeepsie, New York (Site). Note: For clarity of presentation, this Report references 319 Main Street as “Lot A”, 325 Main Street as “Lot B”, 327-329 Main Street as “Lot C” and 331 Main Street as “Lot D”. Investigative and analytical work were performed to address potential environmental liabilities on specified portions of the subject property, which were identified during a previous Phase I investigation (see Section 1.4). The specific purpose of this Report is to summarize the work performed by GBTS and GBTS’s subcontractors, and to identify any on-site conditions that may require further investigation and/or remedial actions.

This Report describes all fieldwork methodologies for the work conducted by GBTS, includes discussions of the resulting analytical data from collected samples and provides conclusions and recommendations drawn from the fieldwork and analytical data.

### **1.2 Limitations**

This written analysis summarizes the site characterization activities conducted on a specified portion of the above-referenced property and is not relevant to other portions of this property or any other property. It is a representation of those portions of the property analyzed as of the respective dates of fieldwork. This Report cannot account for activities or events resulting in contamination after the dates of fieldwork. Services summarized in this Report were performed in accordance with generally accepted practices and established New York State Department of Environmental Conservation (NYSDEC) protocols. Unless specifically noted, GBTS’s findings and conclusions must be considered not as scientific certainties, but as probabilities based on professional judgement.

### **1.3 Site Location and Description**

The Site is comprised of four, contiguous tax-lot parcels, totaling 2.48-acres. Lot A to the west and Lot D to the east comprise the majority of the property and extend northward from Main Street to Mill Street, with additional Lot D frontage on Catharine Street. Lots B and C are small parcels fronting Main Street. The southern portion of Lot A contains a two-story building (former restaurant and club), Lots B and C contain four-story buildings with rear two-story sections (former bookstore/residence, and active office building, respectively), and the southern/central portions of Lot D contain a four-story building with a three-story section to the east, utilized for offices and light manufacturing. The remaining northern portions of Lots A and D contain paved parking areas, walkways and yards. A Fieldwork Map indicating specific Site characteristics is provided in Appendix A.



#### 1.4 Previous Environmental Reports

GBTS reviewed the following environmental reports, prepared for portions of the property:

- Phase I ESA of 327-329 Main Street (“Lot C ESA”), John R. Bien, P.E., December 2005;
- Phase I ESA of 331 Main Street (“Lot D ESA”), Ecosystems Strategies, Inc., June 2013;
- Limited Phase II Subsurface Investigation for 331 Main Street (Lot D, “Phase II SSI”), Greenstar Environmental Solutions, LLC, August 2013; and,
- Geotechnical report for Wallace Campus Buildings (“Geotech Report”), Daniel G. Loucks, P.E. Geotechnical Engineering, September 8, 2020.

No notable environmental conditions were indicated in the Lot C ESA; the Lot D ESA, however, identified former automotive repair activities and a historical gasoline underground storage tank (UST) as Recognized Environmental Conditions. According to a conversation with an employee for the City of Poughkeepsie Fire Department, an “unofficial notation in a log book” indicated that Lot D had two, 1,000-gallon tanks removed on June 15, 1979 (location unknown).

The Phase II SSI was conducted on the northeastern portion of Lot D along Catharine Street. Fieldwork included a ground penetrating radar (GPR) survey, advancement of six soil borings in the vicinity of the former automotive repair facility (SB-01 and SB-02) and the suspect UST (SB-03 through SB-06), and collection of groundwater samples from two borings (SB-04 and SB-06) converted to temporary monitoring wells.

The GPR survey did not indicate the presence of any USTs. No field evidence of petroleum contamination was encountered at any boring location, and laboratory analysis of three soil samples (SB-02, SB-04 and SB-06) did not document the presence of any volatile organic compounds (VOCs) or semi-volatile organic compounds (SVOCs). Low levels of lead were detected in one groundwater sample; however, the report notes that the lead detection is likely due to suspended soil particles. No VOCs or significant levels of SVOCs were detected in groundwater (one sample).

The Geotech Report documents subsurface site conditions on several portions of the property. Subsurface soils throughout the site are generally comprised of an upper layer of fill extending from between 1 and 7 feet below surface grade (bsg). A sandy-gravelly layer underlies the fill layer to depths ranging between 17 to 23 feet bsg, which is underlain by a layer of dense silty clayey soils to depths ranging between 23 to 51 feet bsg. Weathered shale bedrock is reported to be at depths ranging between 41 to 62 feet bsg.

Excerpts from these report are provided in Appendix E.

## **2.0 SUBSURFACE INVESTIGATION**

### **2.1 Summary of Services**

GBTS conducted the following services at the Site on September 10, 11 and 21, and October 2 and 12, 2020:

- Coordinated and provided oversight during a GPR survey in order to determine the location of subsurface utilities and to scan for any subsurface anomalies;
- Installed six (6) temporary soil vapor probes;
- Advanced twenty-four (24) soil borings on the Site to a maximum depth of fifteen feet bsg in areas of the property potentially impacted by historical site usage;
- Coordinated and supervised the installation of three (3) permanent groundwater monitoring wells; and,
- Documented the presence or absence of contamination through sampling and laboratory analysis of subsurface soil, soil vapor and groundwater samples. Soil and groundwater samples were analyzed for VOCs, SVOCs, and Target Analyte List (TAL) metals, and soil vapor was analyzed for VOCs.

This Report is divided into sections that document fieldwork methodology (Section 2.2) and laboratory results (Section 2.3), and present GBTS's conclusions and recommendations (Section 3.0). A map indicating fieldwork locations and selected Site features is provided in Appendix A.

### **2.2 Fieldwork Activities**

#### **2.2.1 Site Preparation Services**

GBTS requested a complete utility markout (as required by New York State Department of Labor regulations) and on-site personnel reviewed the markout and underground utility locations prior to the initiation of fieldwork. A geophysical survey was performed by Underground Surveying, LLC on September 10, 2020 in order to document the presence or absence of any potential on-site USTs and to determine the location of any other subsurface utilities. No overt evidence of USTs or subsurface anomalies was detected.

#### **2.2.2 Fieldwork Methodology**

##### General Protocols

Encountered material was screened (as appropriate) with a calibrated MiniRAE Lite (Model PGM 7300) photo-ionization detector (PID) for volatile organic vapors. Fieldwork observations were documented in log books, including specific characteristics, the presence of foreign materials, and any indications of contamination). Relevant information from GBTS logs for each fieldwork location is summarized in Appendix B.

GBTs collected samples in general conformance with NYSDEC and NYSDOH fieldwork protocols. All field personnel wore dedicated, disposable gloves during relevant fieldwork activities, and any non-dedicated sampling instruments were decontaminated prior to media collection.

All samples were collected into appropriately-sized containers provided by the laboratory (with preservatives as required for the specific analysis), and were maintained at proper temperatures (using ice-packs and coolers as needed) while in GBTs's custody. Samples were transported via courier to York Analytical Laboratories, Inc., and Alpha Analytical Laboratories, both New York State Department of Health-certified laboratories (ELAP Certification Numbers 10854, 11148, respectively) for chemical analyses. Appropriate chain-of-custody procedures were followed.

#### Collection of Soil Vapor

GBTs constructed temporary soil vapor probes (SV-01 through SV-06) by drilling a ½-inch diameter holes through basement floors to depths of approximately 6 inches below the concrete slabs. An air-stone attached to ¼" Teflon tubing was inserted to the invert of the boring and the hole was backfilled with clean #2 silica sand. The top of each hole was sealed using hydrated bentonite clay in order to prevent the infiltration of surface air. Each soil-gas boring was purged prior to sampling for at least a period of five minutes, using a GilAir 3 air-sampling pump, at a rate of approximately 0.2 liters/minute. Soil vapor samples were collected into 2.5-liter Summa Canisters equipped with two-hour flow controllers.

#### Extension of Soil Borings

GBTs advanced sixteen (16) exterior mechanized soil borings in parking areas throughout the Site on September 10 and 11, 2020 and eight (8) interior manual soil borings through basement slabs of on-site buildings on September 11, 2020. All borings were advanced by personnel from Core Down Drilling, LLC (CDD) using Geoprobe equipment utilizing disposable acetate sleeves (to prevent the cross contamination of soil samples)

Exterior Borings were generally located in areas formerly containing buildings as follows:

#### Lot A Parking Lot

- Western portion (GSB-01 through GSB-03 and GSB-08);
- Central portion (GSB-04);
- Eastern portion (GSB-05, GSB-06 and GSB-09); and,
- Northern portion (GSB-07);

#### Lot D Parking Lot

- Northern portion (GSB-10);
- Northeastern portion (GSB-11 through GSB-14); and,
- North and east of loading (UST location; GSB 15 and GSB-16, respectively).

Interior borings were located as follows (SV series collocated at soil vapor sampling points):

- Northeastern portion of Lot A basement (SV-06);
- Northern and southern portions of Lot B Basement (HB-01 and HB-02, respectively);
- Eastern and western portions of Lot C basement (SV-04 and SV-05, respectively); and,
- Northern, central and southern portions of Lot D basement (SV-01, SV-02, SV-03, respectively).

A track-mounted direct-push corer with 5-foot barrel was utilized at exterior areas and a manual corer with 2-foot barrel was used at interior locations (concrete slabs were first breached with a rotary hammer). Maximum depth was 15 feet bsg at exterior borings and 4 feet below the slab at interior borings.

Subsurface soils encountered at the Site during the extension of exterior soil borings generally consisted of fill (unsorted sand containing debris, primarily brick and concrete with some coal, ash and glass) to depths of approximately 1 to 7 feet bsg, underlain by sands with gravel to depths of 15 feet bsg, with two borings showing layers of clayey-silt below 12 feet bsg. Soils generally below 8 feet bsg appeared to be native, undisturbed material.

Subsurface soils encountered at interior borings generally consisted of fine sands.

No field evidence of petroleum contamination was observed at any boring sampling.

Groundwater was not encountered during the extension of the soil borings.

Soil samples were collected directly from the acetate sleeves, utilizing clean, disposable equipment. Soil collection for VOC analysis was conducted according to USEPA Method 5035 fieldwork protocols, utilizing laboratory sampling kits.

#### Monitoring Well Installation, Development and Sampling

Soil borings SB-03 and SB-10 were completed as permanent monitoring wells (MW-01 and MW-02, respectively) by over-drilling the soil boring and MW-03 was directly installed by CDD as a permanent monitoring well on October September 21, 2020 (no soil was collected). Each well was constructed of two-inch PVC casing and 0.01-inch slotted PVC well screening (screen interval from 14 to 24 feet below grade). The annular space between the well screen and the borehole was backfilled with clean #1 silica sand and a one-foot thick bentonite seal was poured above the sand. The annular space above the bentonite seal was then grouted with cement. Well casings were equipped with gripper caps and were finished with steel "drive-over" covers.

Monitoring well development was conducted on October 2, 2020 in order to clear fine-grained material that might have settled around the well screen and to enhance the natural hydraulic connection between the well screen and the surrounding soils. Prior to development, each monitoring well casing was opened and the well column was immediately screened with a PID to document the presence of any volatile organic vapors. Water removed from each monitoring

well was visually inspected for indications of contamination. Development was conducted using a dedicated plastic tubing and a peristaltic pump, and was considered complete when purged water no longer appeared to be turbid.

Monitoring wells were sampled on October 12, 2020. Water samples were collected following USEPA "Low Stress" (low flow) methodology, after field parameters stabilized during purging. No groundwater samples were filtered prior to submission to the laboratory.

No significant field evidence of contamination was observed at any monitoring wells (a PID reading of 0.3 ppm was recorded at MW-02).

#### Determination of Groundwater Flow

Groundwater depth (from the top of the well casing), measured prior to sample collection using an electronic depth meter accurate to the nearest 0.01-foot, was recorded at 16.32 feet bsg (MW-01), 15.25 feet bsg (MW-02) and 16.71 feet bsg (MW-03). These data were compared to the relative heights of the well casings (measured by GBTS using a surveyor's transit) in order to generate approximate water-table contours, and the approximate direction of groundwater flow was determined to be in an easterly direction (see the map provided as Appendix A).

### **2.3 Laboratory Analysis**

#### **2.3.1 Standards, Criteria and/or Guidance**

##### Vapor

The State of New York does not have any standards, criteria or guidance values for volatile chemicals in subsurface vapors (either soil vapor or sub-slab vapor). In the absence of SCG, soil vapor results were reviewed as a whole and compared to the results of all other environmental sampling. Note: NYSDOH utilizes three generic decision matrices for evaluating potential soil vapor intrusion into buildings under specific circumstances (see NYSDOH website updates and Guidance for Evaluating Soil Vapor Intrusion in the State of New York [October 2006]).

##### Soil

Laboratory results for soils are compared to NYSDEC Remedial Program Soil Cleanup Objectives (SCOs) for Unrestricted Use (UU) and Restricted-Residential Use (RRU) as provided in 6 NYCRR Subpart 375, Tables 375-6.8(a) and 375-6.8(b), and (as needed) Soil Cleanup Levels (for gasoline and fuel oil contaminated Soils) in NYSDEC CP-51 (Soil Cleanup Guidance, October 2010) Tables 2 through 3.

##### Groundwater

Laboratory results for groundwater are compared to NYSDEC Ambient Water Quality Standards and Guidance Values (AWQS) in Technical and Operational Guidance Series 1.1.1.

### 2.3.2 Sample Submission

Soil vapor samples were analyzed for VOCs using USEPA Method TO-15.

Soil and groundwater samples were analyzed for VOCs using USEPA Method 8260, SVOCs using USEPA Method 8270, Target Analyte List (TAL) metals using USEPA Method 6010/7043, and pesticides and PCBs using USEPA method 8081/8082.

Submission of soil samples was biased (as warranted) based on field observations, including the presence or absence of elevated PID readings, odors, discoloration, or any unusual patterns.

### 2.3.3 Laboratory Results

A summary of the results of the laboratory analyses is presented below. Results are referenced as parts per million (ppm, equivalent to milligrams per kilogram) for soil, parts per billion (ppb, equivalent to micrograms per liter) for groundwater and micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) for vapor. Data tables and laboratory reports are provided as Appendices C and D, respectively.

#### SOIL VAPOR

Multiple VOCs, including chlorinated and non-chlorinated solvents, and petroleum constituents, were detected in all samples, at low-level concentrations typically found in urban environments. VOCs included tetrachloroethene (PCE) in all samples (ranging from 1.97 to 12.1  $\mu\text{g}/\text{m}^3$ ) and trichloroethene (TCE) at SV-01 (1.37  $\mu\text{g}/\text{m}^3$ ).

#### SOIL

##### VOCs

Trace acetone was detected in four of five samples, with the highest concentration detected at GSB-05 1 (0.017 ppm, UU SCO 0.05 ppm). No other VOCs were detected in any sample.

##### SVOCs

Seven (7) SVOCs were detected above RRU SCOs or UU SCOs in three out of seventeen (17) samples. The highest concentrations generally occurred at GSB-05 0-2. SVOC exceedances were limited to polycyclic aromatic hydrocarbons (PAHs), including the following peak concentrations: benzo(a)anthracene (5.96 ppm, RRU SCO 1 ppm); benzo(a)pyrene (5.15 ppm, RRU SCO 1 ppm); benzo(b)fluoranthene (3.24 ppm, RRU SCO 1 ppm); benzo(k)fluoranthene (3.62 ppm, UU SCO 0.8 ppm, RRU SCO 3.9 ppm), chrysene (6.67 ppm, RRU SCO 3.9 ppm); dibenzo(a,h)anthracene (0.964 ppm, RRU SCO 0.33 ppm); and, indeno(1,2,3-cd)pyrene (2.72 ppm, RRU SCO 0.5 ppm). PAHs were also detected in twelve (12) other samples, at trace- to low-levels. No SVOCs were detected at two sample locations (SV-02 and SV-03).

##### Pesticides and PCBs

No pesticides or PCBs were detected in any sample.

### TAL Metals

Lead was detected above the RRU SCO (400 ppm) in two (2) of twenty-four (24) samples, with a peak concentration of 829 ppm at GSB-07 0-5. Lead was also detected above the UU SCO (63 ppm) in eight (8) other samples. Mercury was detected above the RRU SCO (0.81 ppm) in four (4) samples, with a peak concentration of 3.33 ppm at GSB-13 0-2, and was detected above the UU SCO (0.18 ppm) in eight (8) other samples. Zinc was detected above the UU SCO (109 ppm) in four (4) samples, with a peak concentration of 249 ppm at SV-04.

### **GROUNDWATER**

#### VOCs

No VOCs were detected in any sample.

#### SVOCs

No SVOCs were detected above AWQS. Trace- to low-level concentrations of six (6) SVOCs were detected in MW-02.

#### Pesticides and PCBs

No pesticides or PCBs were detected in any sample.

#### TAL Metals (total and dissolved)

Sodium was detected above AWQS (20,000 ppb) in all three samples, with peak concentrations at MW-03 (total 529,000 ppb, dissolved 575,000 ppb). Manganese was also detected above AWQS (300 ppb) at MW-03 (total 812.1 ppb, dissolved 893.2 ppb). Total iron was detected above AWQS (300 ppb) in two samples, with a peak concentration of 850 ppb at MW-02; dissolved iron was not detected in any sample.

### 3.0 CONCLUSIONS AND RECOMMENDATIONS

GBTs has completed the services summarized in Section 2.0 on specified portions of the Wallace Campus property, 319, 325, 327-329, and 331 Main Street, City of Poughkeepsie, Dutchess County, New York.

Fieldwork (conducted to document the presence or absence of subsurface contamination resulting from historical commercial use) included: a geophysical survey to identify underground tanks and other features; extension of twenty-four (24) soil borings and installation of three (3) permanent groundwater monitoring wells; installation of six (6) soil vapor implants; and collection of soil, groundwater and soil vapor samples.

Conclusions and recommendations (in **bold**), based on the fieldwork services and laboratory data, are as follows:

Soils located along the eastern and northern portions of Lot A, within a layer of fill materials that extends to approximately 7 feet below surface grade, are impacted by high levels of polycyclic aromatic hydrocarbons (PAHs), at concentrations that exceed NYSDEC Part 375 Soil Cleanup Objectives for Restricted-Residential Use (RRU SCOs). Lead was detected at elevated concentrations at the northern portion of Lot A (GSB-07) and the eastern portion of Lot C (SV-04). Elevated concentrations of mercury were detected at interior samples from Lot B and from two exterior samples at the northern portion of Lot D.

Multiple VOCs, including chlorinated and non-chlorinated solvents, and petroleum constituents, were detected in all samples, at low-level concentrations typically found in urban environments.

No significant levels of volatile organic compounds (VOCs), pesticides or PCBs were found in soil samples collected for general screening purposes, and no significant levels of VOCs were found in soil vapor samples. No significant levels of VOCs, SVOCs, pesticides or PCBs were detected in groundwater samples. Elevated levels of iron, manganese and sodium in groundwater are likely related to poor-quality local groundwater.

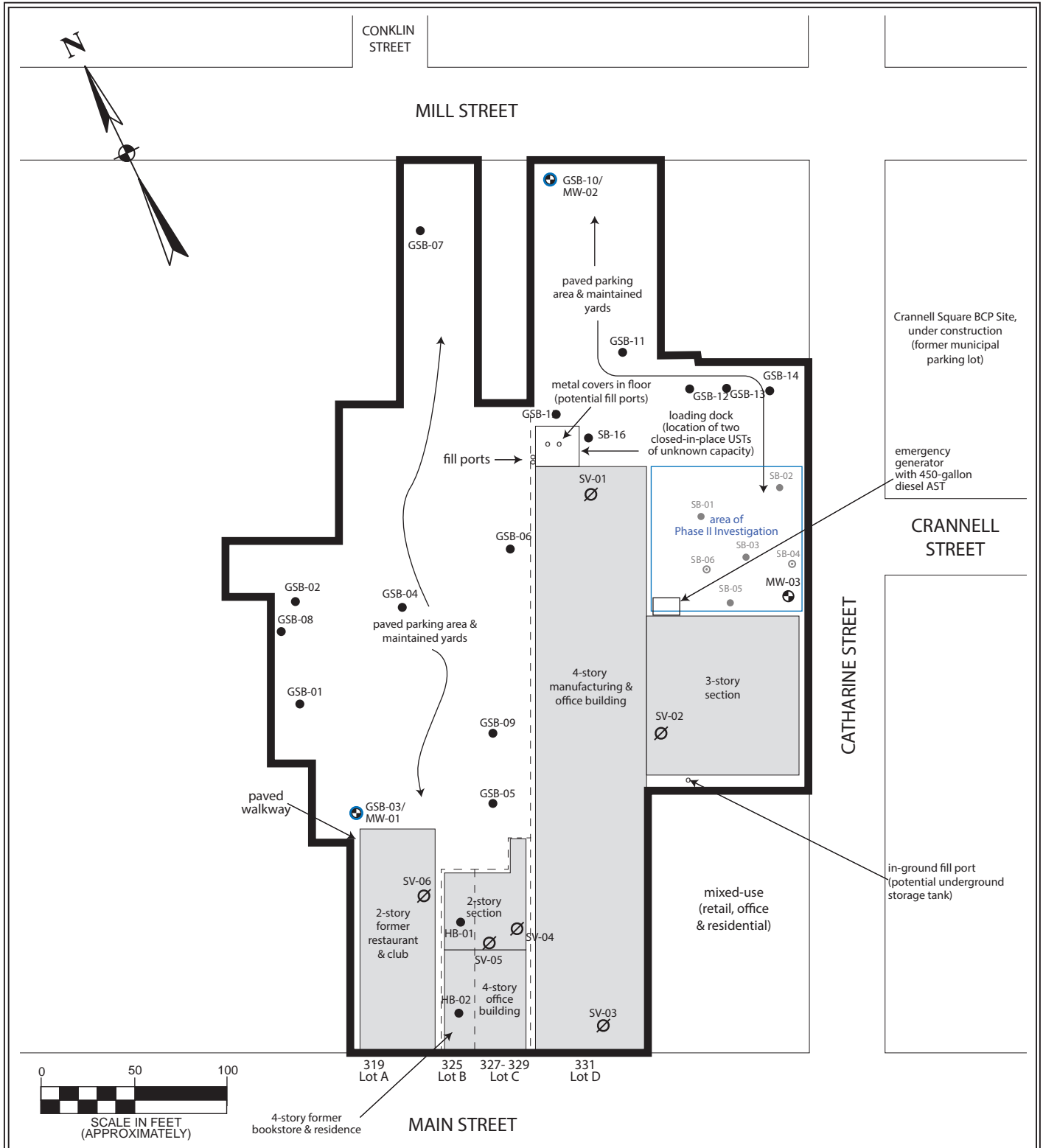
These findings support the conclusion that on-site contamination is limited to PAH and metal impacts to Site soil. The source of this contamination is unknown, but may be related to former commercial uses and impacts from building demolition.

**Soil contaminated by PAHs and metals above RRU SCOs should be removed during future Site development. Additional investigation may be warranted based on intended future uses.**



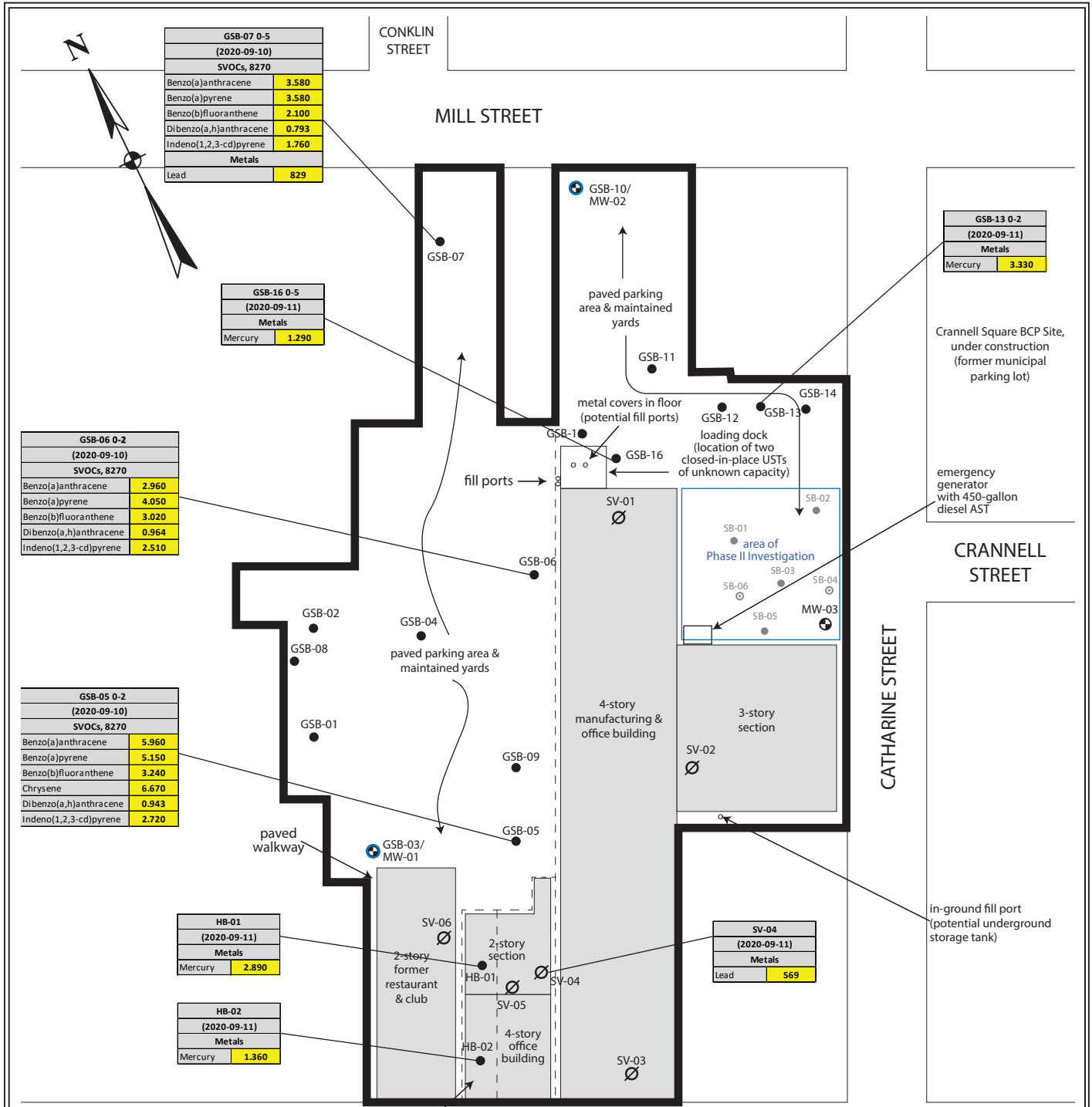
## APPENDIX A

### Figures



All feature locations are approximate. This map is intended as a schematic to be used in conjunction with the associated report, and it should not be relied upon as a survey for planning or other activities.

<p><b>Fieldwork Map</b></p> <p>319, 325, 327-329 and 331 Main Street City of Poughkeepsie Dutchess County, New York</p>	<p>Legend: <span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span> subject property border    - - - - lot line</p> <ul style="list-style-type: none"> <li>● soil boring location (2013)</li> <li>○ soil boring/temporary well location (2013)</li> <li>⊗ soil vapor location (2020)</li> <li>● soil boring location (2020)</li> <li>⊕ soil boring and monitoring well location (2020)</li> <li>⊕ monitoring well location (2020)</li> </ul>	<p>File: 20-0213.03</p>
		<p>October 2020</p>
		<p>Scale as shown</p>
		<p>Appendix A</p>



All feature locations are approximate. This map is intended as a schematic to be used in conjunction with the associated report, and it should not be relied upon as a survey for planning or other activities.

**Soil Exceedances**

319, 325, 327-329 and 331 Main Street  
City of Poughkeepsie  
Dutchess County, New York

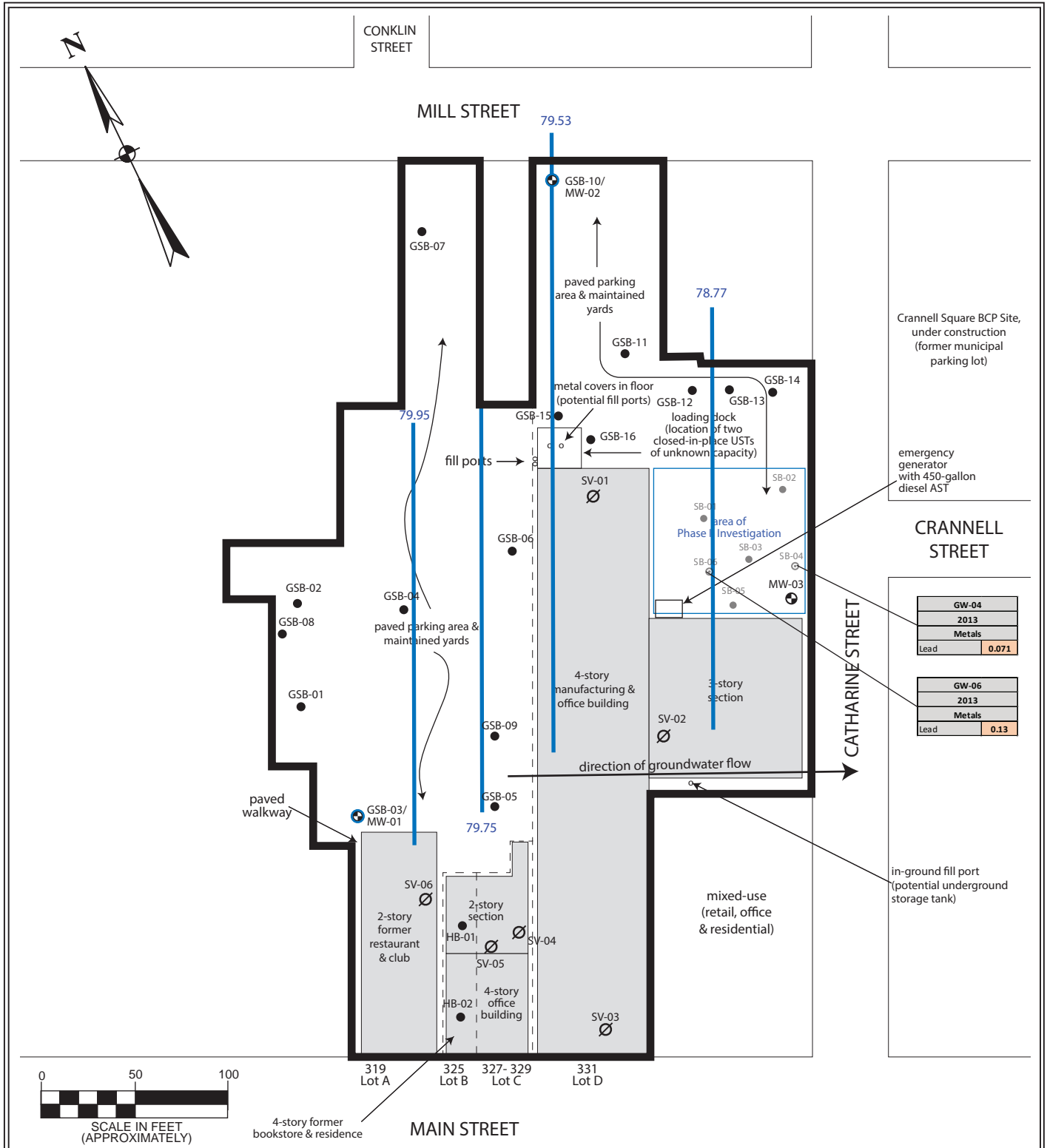
- Legend:  subject property border  lot line
- soil boring location (2013)
  - soil boring/temporary well location (2013)
  - soil vapor location (2020)
  - soil boring location (2020)
  - ⊕ soil boring and monitoring well location (2020)
  - ⊕ monitoring well location (2020)
- All results in mg/kg  
exceedances of RRSCO

File: 20-0213.03

October 2020

Scale as shown

Appendix A



Crannell Square BCP Site, under construction (former municipal parking lot)

emergency generator with 450-gallon diesel AST

CRANNELL STREET

GW-04	
2013	
Metals	
Lead	0.071

GW-06	
2013	
Metals	
Lead	0.13

in-ground fill port (potential underground storage tank)

All feature locations are approximate. This map is intended as a schematic to be used in conjunction with the associated report, and it should not be relied upon as a survey for planning or other activities.

<p><b>Groundwater Exceedances</b></p> <p>319, 325, 327-329 and 331 Main Street</p> <p>City of Poughkeepsie</p> <p>Dutchess County, New York</p>	<p>Legend: <span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span> subject property border</p> <p><span style="border-bottom: 1px dashed black; width: 10px; display: inline-block;"></span> lot line</p> <p><span style="color: grey;">●</span> soil boring location (2013)</p> <p><span style="color: grey;">⊙</span> soil boring/temporary well location (2013)</p> <p><span style="color: grey;">○</span> soil vapor location (2020)</p> <p><span style="color: black;">●</span> soil boring location (2020)</p> <p><span style="color: blue;">⊕</span> soil boring and monitoring well location (2020)</p> <p><span style="color: blue;">⊕</span> monitoring well location (2020)</p> <p><span style="color: blue;">—</span> groundwater contour lines</p>	<p>File: 20-0213.03</p> <p>October 2020</p> <p>Scale as shown</p> <p>Appendix A</p>				
	<table border="1"> <tr><td colspan="2">All groundwater results in ug/L</td></tr> <tr><td colspan="2">exceedance of AWQS</td></tr> </table>	All groundwater results in ug/L		exceedance of AWQS		
	All groundwater results in ug/L					
	exceedance of AWQS					

## APPENDIX B

# Boring Logs and Groundwater Sampling Logs

BORING LOG

Boring ID: **GSB-01**

Project Name: **Walker Campus**  
Project Number: 20-0213  
Address:  
Logged By: **ES**  
Start/End Date: **9/10/20**  
Weather:

Driller: **CPD**  
Drill Rig:  
Drilling Method:  
Sample Method:  
Surface Material: **Asphalt**  
Total Depth: **15'**

Boring Interval (feet)	Depth (ft bgs)	Recovery (inches)	Moisture Content	Staining/Odor/ NAPL	PID Reading (ppm)	Material Description	Sample ID/ Interval
0-5	1	50% wet		None	0.0	Crushed stone subbase	0-2
	2			↓	↓	Light brown F SAND w/ some silt to 4.5	
	3						
	4						
	5						
5-10	6	50% wet		None	0.0	Brown F-M SAND & rounded stones to ~ 9 then F-M SAND	
	7			↓	↓		
	8						
	9						
	10						
10-15	11	55% to wet		None	0.0	Brown F-M SAND layer of light brown SILT @ ~ 12 transition to unsorted SANDS	
	12			↓	↓		
	13						
	14						
	15						
15-20	16						
	17						
	18						
	19						
	20						

Abbreviations:

NR = No Recovery	O = Odor	and = 36-50%	Grain size:	Moisture Content:
SAA = Same As Above	S = Staining	some = 21-35%	F = Fine	D = Dry W = Wet
	ND = Not Detected	little = 11-20%	M = Medium	M = Moist S = Saturated
	(i.e., no odor/staining)	trace = 1-10%	C = Coarse	

**BORING LOG**

Boring ID: **G5B-02**

Project Name: **Wallace Campus**

Driller: **CDD**

Project Number: 20-0213

Drill Rig:

Address:

Drilling Method:

Logged By: **ES**

Sample Method:

Start/End Date: **4/10/20**

Surface Material: **Asphalt**

Weather:

Total Depth: **15'**

Boring Interval (feet)	Depth (ft bgs)	Recovery (inches)	Moisture Content	Staining/Odor/NAPL	PID Reading (ppm)	Material Description	Sample ID/Interval
0-5	1	45		None	0.0	SAA (G5B-01)	
	2			↓	↓		
	3			↓	↓		
	4			↓	↓		
	5			↓	↓		
5-10	6	50		↓	↓	SAA (G5B-01)	
	7			↓	↓		
	8			↓	↓		
	9			↓	↓		
	10			↓	↓		
10-15	11	55		↓	↓	SAA (G5B-01)	
	12			↓	↓		
	13			↓	↓		
	14			↓	↓		
	15			↓	↓		
15-20	16						
	17						
	18						
	19						
	20						

**Abbreviations:**

NR = No Recovery

O = Odor

and = 36-50%

Grain size:

Moisture Content:

S = Staining

some = 21-35%

F = Fine

D = Dry

W = Wet

SAA = Same As Above

ND = Not Detected

little = 11-20%

M = Medium

M = Moist

S = Saturated

(i.e., no odor/staining)

trace = 1-10%

C = Coarse



# BORING LOG

Boring ID: **GSB-03**

Project Name: **Wallace Campus**  
 Project Number: 20-0213  
 Address:  
 Logged By:  
 Start/End Date: **9/10/20**  
 Weather:

Driller:  
 Drill Rig:  
 Drilling Method:  
 Sample Method:  
 Surface Material: **asphalt**  
 Total Depth: **10'**

Boring Interval (feet)	Depth (ft bgs)	Recovery (inches)	Moisture Content	Staining/Odor/NAPL	PID Reading (ppm)	Material Description	Sample ID/Interval
0-5	1	70% dry		None	0.0	asphalt to 1' then layer of Brown M SAND of small stones	0-5
	2						
	3						
	4						
	5						
5-10	6	80% dry to moist				Brick w/ trace ash to ~ 7'	5-6
	7						
	8						
	9						
	10						
10-15	11						
	12						
	13						
	14						
	15						
15-20	16						
	17						
	18						
	19						
	20						

Abbreviations:			
NR = No Recovery	O = Odor	and = 36-50%	Grain size:
SAA = Same As Above	S = Staining	some = 21-35%	F = Fine
	ND = Not Detected	little = 11-20%	M = Medium
	(i.e., no odor/staining)	trace = 1-10%	C = Coarse
			Moisture Content:
			D = Dry W = Wet
			M = Moist S = Saturated



# BORING LOG

Boring ID: **GSB-04**

Project Name: **Wallace Campus**  
 Project Number: 20-0213  
 Address:  
 Logged By: **CS**  
 Start/End Date: **9/10/20**  
 Weather:

Driller:  
 Drill Rig:  
 Drilling Method:  
 Sample Method:  
 Surface Material: **Asphalt**  
 Total Depth: **10'**

Boring Interval (feet)	Depth (ft bgs)	Recovery (inches)	Moisture Content	Staining/Odor/NAPL	PID Reading (ppm)	Material Description	Sample ID/Interval
0-5	1			None	0.0	Asphalt subbase w/ some crushed stone	
	2	20% moist		↓	↓	Brown F-M SAND	0-5
	3						
	4						
	5						
6	5-10						
7							
8							
9							
10							
10-15	11						
	12						
	13						
	14						
	15						
15-20	16						
	17						
	18						
	19						
	20						

Abbreviations:			
NR = No Recovery	O = Odor	and = 36-50%	Grain size:
SAA = Same As Above	S = Staining	some = 21-35%	F = Fine
	ND = Not Detected	little = 11-20%	M = Medium
	(i.e., no odor/staining)	trace = 1-10%	C = Coarse
			Moisture Content:
			D = Dry    W = Wet
			M = Moist    S = Saturated

BORING LOG

Boring ID: *GSB-05*

Project Name: *Wallace Campus*  
Project Number: 20-0213  
Address:  
Logged By: *ES*  
Start/End Date: *9/10/20*  
Weather:

Driller:  
Drill Rig:  
Drilling Method:  
Sample Method:  
Surface Material: *Asphalt*  
Total Depth: *10'*

Boring Interval (feet)	Depth (ft bgs)	Recovery (inches)	Moisture Content	Staining/Odor/NAPL	PID Reading (ppm)	Material Description	Sample ID/Interval
0-5	1	<i>75% moist</i>		<i>none</i>	<i>0.0</i>	<i>asphalt sub base</i>  <i>Brown F-m SAND &amp; fill (ash, coal) to ~ 3' underlain by F SAND w/ little silt layer of dark coal c ~ 4.5'</i>	<i>Q-2</i> <i>1 way</i>
	2			<i>slight</i>	<i>1.2</i>		
	3			<i>none</i>	<i>0.0</i>		
	4			<i>↓</i>	<i>0.0</i>		
	5			<i>↓</i>	<i>0.0</i>		
5-10	6	<i>80% moist</i>				<i>light brown F SAND &amp; SILT to ~ 8'</i>  <i>then light brown F SAND</i>	
	7						
	8						
	9						
	10						
10-15	11						
	12						
	13						
	14						
	15						
15-20	16						
	17						
	18						
	19						
	20						

Abbreviations:

NR = No Recovery  
SAA = Same As Above

O = Odor  
S = Staining  
ND = Not Detected  
(i.e., no odor/staining)

and = 36-50%  
some = 21-35%  
little = 11-20%  
trace = 1-10%

Grain size:  
F = Fine  
M = Medium  
C = Coarse

Moisture Content:  
D = Dry W = Wet  
M = Moist S = Saturated

# BORING LOG

Boring ID:

*GBS-08*

**Project Name:** *Wallace Campus*  
**Project Number:** 20-0213  
**Address:**  
**Logged By:** *ES*  
**Start/End Date:** *9/10/20*  
**Weather:**

**Driller:**  
**Drill Rig:**  
**Drilling Method:**  
**Sample Method:**  
**Surface Material:** *Asphalt*  
**Total Depth:** *5'*

Boring Interval (feet)	Depth (ft bgs)	Recovery (inches)	Moisture Content	Staining/Odor/ NAPL	PID Reading (ppm)	Material Description	Sample ID/ Interval
0-5	1	<i>65% moist</i>				<i>Asphalt subbase w/ large gravel to ~1'</i>	<i>0-2</i>
	2						
	3						
	4						
	5						
5-10	6						
	7						
	8						
	9						
	10						
10-15	11						
	12						
	13						
	14						
	15						
15-20	16						
	17						
	18						
	19						
	20						

**Abbreviations:**

NR = No Recovery	O = Odor	and = 36-50%	Grain size:	Moisture Content:
SAA = Same As Above	S = Staining	some = 21-35%	F = Fine	D = Dry    W = Wet
	ND = Not Detected	little = 11-20%	M = Medium	M = Moist    S = Saturated
	(i.e., no odor/staining)	trace = 1-10%	C = Coarse	



# BORING LOG

Boring ID: **GSB-07**

Project Name: **Wallace Campus**  
 Project Number: 20-0213  
 Address:  
 Logged By: **ES**  
 Start/End Date: **9/10/20**  
 Weather:

Driller:  
 Drill Rig:  
 Drilling Method:  
 Sample Method:  
 Surface Material: **Asphalt**  
 Total Depth: **10'**

Boring Interval (feet)	Depth (ft bgs)	Recovery (inches)	Moisture Content	Staining/Odor/ NAPL	PID Reading (ppm)	Material Description	Sample ID/ Interval
0-5	1	50% wet				asphalt to ~ 1' brown silty SAND w/ small stones to brick w/ little ash	
	2						
	3						
	4						
	5						
5-10	6	45%				brick w/ little ash to ~ 7'  7-10	
	7						
	8						
	9						
	10						
10-15	11						
	12						
	13						
	14						
	15						
15-20	16						
	17						
	18						
	19						
	20						

**Abbreviations:**

NR = No Recovery	O = Odor	and = 36-50%	Grain size:	Moisture Content:
SAA = Same As Above	S = Staining	some = 21-35%	F = Fine	D = Dry    W = Wet
	ND = Not Detected	little = 11-20%	M = Medium	M = Moist    S = Saturated
	(i.e., no odor/staining)	trace = 1-10%	C = Coarse	

BORING LOG

Boring ID: *GSB-08*

Project Name: *Wallace Campus*  
Project Number: 20-0213  
Address:  
Logged By: *ES*  
Start/End Date: *9/10/20*  
Weather:

Driller:  
Drill Rig:  
Drilling Method:  
Sample Method:  
Surface Material: *Asphalt*  
Total Depth: *5'*

Boring Interval (feet)	Depth (ft bgs)	Recovery (inches)	Moisture Content	Staining/Odor/ NAPL	PID Reading (ppm)	Material Description	Sample ID/ Interval
0-5	1	<i>50%</i>			0.0	<i>Fill to 1.5'</i> <i>then light brown F SAND w/ some silt</i>	<i>0.2</i>
	2						
	3						
	4						
	5						
5-10	6						
	7						
	8						
	9						
	10						
10-15	11						
	12						
	13						
	14						
	15						
15-20	16						
	17						
	18						
	19						
	20						

Abbreviations:

NR = No Recovery	O = Odor	and = 36-50%	Grain size:	Moisture Content:
SAA = Same As Above	S = Staining	some = 21-35%	F = Fine	D = Dry    W = Wet
	ND = Not Detected	little = 11-20%	M = Medium	M = Moist    S = Saturated
	(i.e., no odor/staining)	trace = 1-10%	C = Coarse	

**BORING LOG**

Boring ID: **GSB-09**

Project Name: **Wallace Campus**  
Project Number: 20-0213  
Address:  
Logged By: **ES**  
Start/End Date: **9/10/20**  
Weather:

Driller:  
Drill Rig:  
Drilling Method:  
Sample Method:  
Surface Material: **Asphalt**  
Total Depth: **10'**

Boring Interval (feet)	Depth (ft bgs)	Recovery (inches)	Moisture Content	Staining/Odor/ NAPL	PID Reading (ppm)	Material Description	Sample ID/ Interval
0-5	1			None	0.0	Asphalt sub base w/ large gravel	
	2					Brown F SAND <sup>silt w/</sup> small stones (unsorted) to 4' 4-5' F SAND & SILT	2-3
	3	60%	wet				
	4						
	5						
6							
5-10	7					light brown : : SANDY SILT	
	8	70%				to F SAND	
	9						
	10						
10-15	11						
	12						
	13						
	14						
	15						
15-20	16						
	17						
	18						
	19						
	20						

**Abbreviations:**

NR = No Recovery	O = Odor	and = 36-50%	Grain size:	Moisture Content:
SAA = Same As Above	S = Staining	some = 21-35%	F = Fine	D = Dry W = Wet
	ND = Not Detected	little = 11-20%	M = Medium	M = Moist S = Saturated
	(i.e., no odor/staining)	trace = 1-10%	C = Coarse	



# BORING LOG

Boring ID: **GSB-10**

Project Name: **Walker Campus**  
 Project Number: 20-0213  
 Address:  
 Logged By: **ES**  
 Start/End Date: **01/12/20**  
 Weather:

Driller:  
 Drill Rig:  
 Drilling Method:  
 Sample Method:  
 Surface Material: **Asphalt**  
 Total Depth: **10'**

Boring Interval (feet)	Depth (ft bgs)	Recovery (inches)	Moisture Content	Staining/Odor/ NAPL	PID Reading (ppm)	Material Description	Sample ID/ Interval
0-5	1	<b>60</b>	<b>dry</b>	<b>None</b>	<b>0.0</b>	<b>unsorted fill material containing F-M SAND Brick, trace ash, coal,</b>	<b>0-5</b>
	2			↓	↓		
	3			↓	↓		
	4			↓	↓		
	5			↓	↓		
5-10	6	<b>70</b>	<b>dry</b>	↓	↓	<b>SAA to ~ 7' then brown to light brown M SAND w/ unsorted small stones</b>	
	7			↓	↓		
	8			↓	↓		
	9			↓	↓		
10-15	10						
	11						
	12						
	13						
	14						
15-20	15						
	16						
	17						
	18						
	19						
	20						

**Abbreviations:**

NR = No Recovery	O = Odor	and = 36-50%	Grain size:	Moisture Content:
SAA = Same As Above	S = Staining	some = 21-35%	F = Fine	D = Dry    W = Wet
	ND = Not Detected	little = 11-20%	M = Medium	M = Moist    S = Saturated
	(i.e., no odor/staining)	trace = 1-10%	C = Coarse	

**BORING LOG**

Boring ID: **ESD-11**

Project Name: **Walton Campus**  
 Project Number: 20-0213  
 Address:  
 Logged By: **ES**  
 Start/End Date: **9/11/20**  
 Weather:

Driller:  
 Drill Rig:  
 Drilling Method:  
 Sample Method:  
 Surface Material: **Asphalt**  
 Total Depth: **10'**

Boring Interval (feet)	Depth (ft bgs)	Recovery (inches)	Moisture Content	Staining/Odor/ NAPL	PID Reading (ppm)	Material Description	Sample ID/ Interval
0-5	1	50		None	0.0	Unsorted fill comprised of M SAND w/ brick, gravel, trace coal, shells,	0-5
	2						
	3						
	4						
	5						
5-10	6	90	dry to moist			F SAND w/ trace brick, crushed stone to ~ 6  Brown F silty SAND w/ small rounded stones	
	7						
	8						
	9						
	10						
10-15	11						
	12						
	13						
	14						
	15						
15-20	16						
	17						
	18						
	19						
	20						

Abbreviations:			
NR = No Recovery	O = Odor	and = 36-50%	Grain size:
SAA = Same As Above	S = Staining	some = 21-35%	F = Fine
	ND = Not Detected	little = 11-20%	M = Medium
	(i.e., no odor/staining)	trace = 1-10%	C = Coarse
			Moisture Content:
			D = Dry W = Wet
			M = Moist S = Saturated



BORING LOG

Boring ID: **GSB-12**

Project Name: **Walker Campus**  
Project Number: 20-0213  
Address:  
Logged By: **ES**  
Start/End Date: **4/1/20**  
Weather:

Driller:  
Drill Rig:  
Drilling Method:  
Sample Method:  
Surface Material: **Asphalt**  
Total Depth: **10'**

Boring Interval (feet)	Depth (ft bgs)	Recovery (inches)	Moisture Content	Staining/Odor/ NAPL	PID Reading (ppm)	Material Description	Sample ID/ Interval
0-5	1	75		None	0.0	Asphalt, to 8"	
	2			↓	F SAND w/ brick, crushed stone, trace coal		
	3			↓			
	4			Grey			
	5			None		↓	
5-10	6	75 dry		None		light brown silty F SAND w/ trace clay to ~ 8' then brown F-M SAND	
	7						
	8						
	9						
	10						
10-15	11						
	12						
	13						
	14						
	15						
15-20	16						
	17						
	18						
	19						
	20						

Abbreviations:

NR = No Recovery	O = Odor	and = 36-50%	Grain size:	Moisture Content:
SAA = Same As Above	S = Staining	some = 21-35%	F = Fine	D = Dry    W = Wet
	ND = Not Detected	little = 11-20%	M = Medium	M = Moist    S = Saturated
	(i.e., no odor/staining)	trace = 1-10%	C = Coarse	

**BORING LOG**

Boring ID: **GEB-13**

Project Name: **Waltzer Campus**  
 Project Number: 20-0213  
 Address:  
 Logged By:  
 Start/End Date: **4/11/20**  
 Weather:

Driller:  
 Drill Rig:  
 Drilling Method:  
 Sample Method:  
 Surface Material: **Asphalt**  
 Total Depth: **10'**

Boring Interval (feet)	Depth (ft bgs)	Recovery (inches)	Moisture Content	Staining/Odor/ NAPL	PID Reading (ppm)	Material Description	Sample ID/ Interval
0-5	1		dry	None	0.0	Asphalt subbase unsorted F-M SAND w/ variable size stones, ash, coal + trace 4-5' brown silty F SAND	0-2
	2						
	3	80					
	4		wet				
	5						
5-10	6		wet			Brown F SAND of variable size stone to silty SAND (8-10')	
	7						
	8	80					
	9		wet				
	10						
10-15	11						
	12						
	13						
	14						
	15						
15-20	16						
	17						
	18						
	19						
	20						

**Abbreviations:**

NR = No Recovery	O = Odor	and = 36-50%	<b>Grain size:</b>	<b>Moisture Content:</b>
SAA = Same As Above	S = Staining	some = 21-35%	F = Fine	D = Dry    W = Wet
	ND = Not Detected	little = 11-20%	M = Medium	M = Moist    S = Saturated
	(i.e., no odor/staining)	trace = 1-10%	C = Coarse	

**BORING LOG**

Boring ID: **GSB-14**

Project Name: **Walton Campus**  
 Project Number: 20-0213  
 Address:  
 Logged By: **ES**  
 Start/End Date: **9/1/20**  
 Weather:

Driller:  
 Drill Rig:  
 Drilling Method:  
 Sample Method:  
 Surface Material: **Asphalt**  
 Total Depth: **5'**

Boring Interval (feet)	Depth (ft bgs)	Recovery (inches)	Moisture Content	Staining/Odor/ NAPL	PID Reading (ppm)	Material Description	Sample ID/ Interval
0-5	1	<b>65</b>	<b>dry</b>	<b>↓</b>	<b>↓</b>	<b>Asphalt subbase</b>	<b>0-2</b>
	2						
	3						
	4						
	5						
5-10	6						
	7						
	8						
	9						
	10						
10-15	11						
	12						
	13						
	14						
	15						
15-20	16						
	17						
	18						
	19						
	20						

Abbreviations:			
NR = No Recovery	O = Odor	and = 36-50%	Grain size:
SAA = Same As Above	S = Staining	some = 21-35%	F = Fine
	ND = Not Detected	little = 11-20%	M = Medium
	(i.e., no odor/staining)	trace = 1-10%	C = Coarse
			Moisture Content:
			D = Dry W = Wet
			M = Moist S = Saturated



**BORING LOG**

Boring ID: **GSB-15**

Project Name: **Water Campus**  
 Project Number: 20-0213  
 Address:  
 Logged By: **ES**  
 Start/End Date: **9/11/20**  
 Weather:

Driller:  
 Drill Rig:  
 Drilling Method:  
 Sample Method:  
 Surface Material:  
 Total Depth:

Boring Interval (feet)	Depth (ft bgs)	Recovery (inches)	Moisture Content	Staining/Odor/ NAPL	PID Reading (ppm)	Material Description	Sample ID/ Interval
0-5	1	50	W	None	0-0	fill (Brick, gravel, F SAND)	
	2						
	3						
	4						
	5						
5-10	6	60	dry	None		fill (SAA) to ~ 6	
	7						
	8						
	9						
	10						
10-15	11						
	12						
	13						
	14						
	15						
15-20	16						
	17						
	18						
	19						
	20						

Abbreviations:			
NR = No Recovery	O = Odor	and = 36-50%	Grain size:
SAA = Same As Above	S = Staining	some = 21-35%	F = Fine
	ND = Not Detected	little = 11-20%	M = Medium
	(i.e., no odor/staining)	trace = 1-10%	C = Coarse
			Moisture Content:
			D = Dry W = Wet
			M = Moist S = Saturated

BORING LOG

Boring ID: **GSB-16**

Project Name: **Walton Campus**  
Project Number: 20-0213  
Address:  
Logged By:  
Start/End Date: **9/11/20**  
Weather:

Driller:  
Drill Rig:  
Drilling Method:  
Sample Method:  
Surface Material: **Grass**  
Total Depth: **10'**

Boring Interval (feet)	Depth (ft bgs)	Recovery (inches)	Moisture Content	Staining/Odor/ NAPL	PID Reading (ppm)	Material Description	Sample ID/ Interval
0-5	1	<b>75%</b>		<b>None</b>	<b>0.0</b>	<b>F SAND w/ fill materials (gravel, trace coal)</b>	<b>0-5</b>
	2						
	3						
	4						
	5						
5-10	6					<b>F SAND w/ some silt variable size stone to 7.5</b>	
	7						
	8						
	9						
	10						
10-15	11					<b>then <del>F-M SAND</del> F-M SAND w/ variable size stone</b>	
	12						
	13						
	14						
	15						
15-20	16						
	17						
	18						
	19						
	20						

Abbreviations:

NR = No Recovery	O = Odor	and = 36-50%	Grain size:	Moisture Content:
SAA = Same As Above	S = Staining	some = 21-35%	F = Fine	D = Dry W = Wet
	ND = Not Detected	little = 11-20%	M = Medium	M = Moist S = Saturated
	(i.e., no odor/staining)	trace = 1-10%	C = Coarse	

BORING LOG

Boring ID: SV-04 - 5V-026 Pg. 1 of 1

Project Name:  
Project Number: 20-0213  
Address:  
Logged By:  
Start/End Date:  
Weather:

Driller:  
Drill Rig:  
Drilling Method:  
Sample Method:  
Surface Material:  
Total Depth:

SV-01 - No recovery e z locations

Boring Interval (feet)	Depth (ft bgs)	Recovery (inches)	Moisture Content	Staining/Odor/ NAPL	PID Reading (ppm)	Material Description	Sample ID/ Interval
	1			None	0.0	F SAND	
	2			↓	↓		
	3	25%		↓	↓		
	4			↓	↓		
	5			↓	↓		
	6			↓	0.0	M-C SAND	
	7			↓	↓		
	8	40		↓	↓		
	9			↓	↓		
	10						
	11			↓	↓	M-C SAND & small pebbles	
	12			↓	↓		
	13	30		↓	↓		
	14			↓	↓		
	15			↓	↓		
	16			↓	↓	M-C SAND & small pebbles	
	17			↓	↓		
	18	40		↓	↓		
	19			↓	↓		
	20			↓	↓		

SV-04 below break slab

SV-05 0-2 below break slab

SV-06 SAA

SV-03 SAA

Abbreviations:

NR = No Recovery	O = Odor	and = 36-50%	Grain size:	Moisture Content:
SAA = Same As Above	S = Staining	some = 21-35%	F = Fine	D = Dry W = Wet
	ND = Not Detected	little = 11-20%	M = Medium	M = Moist S = Saturated
	(i.e., no odor/staining)	trace = 1-10%	C = Coarse	



## GROUNDWATER MONITORING WELL PURGE DATA SHEET



**Project Name:** Walpole Campus      **Well ID:** NW-01  
**WCD ID:** 20-023      **PID Reading:** 0.0 PPM  
**Date:** 10/2/20      **Depth of well:**             24.05  
**Field Personnel:** ES      **Depth to water:**             = 16.32'  
**Weather:** Clear 40s to 50s F      **Pump type:** Peri

Time	Temp (°C)	pH	ORP (mv)	Specific Conductivity (ms/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Purge Rate (mL/m)	Comments (e.g. color/clarity)
2:23	14.34	7.64	263	0.671	46.8	3.78	16.93	110	
2:26	14.63	7.53	262	0.657	46.4	4.42	16.95		
2:29	14.76	7.50	260	0.645	37.4	4.99	18.97		
2:32	14.87	7.47	258	0.633	33.7	4.24	16.98		
2:35	14.96	7.46	256	0.620	28.8	4.50	16.99		
2:38	15.05	7.46	254	0.615	26.8	4.55	17.00		
2:41	15.09	7.46	252	0.611	24.0	5.02	17.01		
2:44	15.15	7.46	251	0.608	25.4	4.76	17.01		
2:47	15.18	7.46	249	0.605	24.7	4.43	17.02		
2:58	15.22	7.47	248	0.604	25.2	4.56	17.02	110	

**\*\*\* STABILIZATION CRITERIA \*\*\***

Temp +/- 3%      pH +/- 0.1      ORP +/- 10      Spec Cond +/- 3%      Turb +/- 10%      DO +/- 10%

**NOTES:**

**\*\*\* PURGED WATER DETAILS \*\*\***

**Start/End time:** 14:23 - 14:50  
**Total purge time:** 27 min  
**Total volume:** ~ 0.75 gal  
**Purge rate:** 110 mL/min

**CHARACTERISTICS:**  
**Odor:** none | slight | moderate | strong  
**Sheen:** none | slight | moderate | strong  
**L/DNAPL:** Yes  No      L/DNAPL thickness (in.):

## GROUNDWATER MONITORING WELL PURGE DATA SHEET



Project Name: Wallace Campus  
 WCD ID: 20-023  
 Date: 10/12/20  
 Field Personnel: ES  
 Weather: Rain high 40s low 50s°F

Well ID: 116-02  
 PID Reading: 0.3 ppm  
 Depth of well: 24.28'  
 Depth to water: 15.25'  
 Pump type: Peri

Time	Temp (°C)	pH	ORP (mv)	Specific Conductivity (ms/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Purge Rate (mL/m)	Comments (e.g. color/clarity)
13:40	13.82	9.03	174	0.743	105	10.93	15.70	70	
13:43	13.88	8.85	179	0.743	99.5	10.77			
13:47	13.92	8.76	182	0.744	96.9	10.59			
13:50	13.91	8.70	185	0.743	94.9	10.43			
13:53	13.90	8.68	186	0.742	92.7	10.26	15.70	70	SAMPLE
									13:53 - 14:30

\*\*\* STABILIZATION CRITERIA \*\*\*

Temp +/- 3%      pH +/- 0.1      ORP +/- 10      Spec Cond +/- 3%      Turb +/- 10%      DO +/- 10%

\*\*\* PURGED WATER DETAILS \*\*\*

Start/End time: 13:20 - 13:53  
 Total purge time: 33 min  
 Total volume: ~ 0.5 - 0.75 gal  
 Purge rate: 110 mL/min -> 70 mL/min

CHARACTERISTICS:  
 Odor: none | slight | moderate | strong  
 Sheen: none | slight | moderate | strong  
 L/DNAPL: Yes/No No      L/DNAPL thickness (in.): \_\_\_\_\_

NOTES:

DOP-20201012  
 14:30 - 15:10

↳ draw down too high -> slowed to 70 mL/min



## GROUNDWATER MONITORING WELL PURGE DATA SHEET



Project Name: Wallace Campus  
 WCD ID: 20-0213  
 Date: 10/12/2020  
 Field Personnel: ES  
 Weather: Rain high 40s Low 50s °F

Well ID: MW-03  
 PID Reading: 0.2 ppm  
 Depth of well: 24.33'  
 Depth to water: 16.71'  
 Pump type: Peri

Time	Temp (°C)	pH	ORP (mv)	Specific Conductivity (ms/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Depth to Water (ft)	Purge Rate (mL/m)	Comments (e.g. color/clarity)
12:17	<del>13.44</del>	6.92	50	3.88	74.2	1.01	16.72	110	
12:20	13.68	6.93	33	3.85	66.5	0.73			
12:23	13.88	6.94	28	3.79	60.7	0.61			
12:26	13.99	6.95	25	3.74	63.1	0.56			
12:29	14.11	6.97	22	3.67	58.7	0.45	16.72	110	
12:32	14.18	6.99	24	3.62	55.5	0.40			
12:35	14.19	6.99	24	3.61	55.2	0.39			SAMPLE
									12:35 - 17:55

**\*\*\* STABILIZATION CRITERIA \*\*\***

Temp +/- 3%    pH +/- 0.1    ORP +/- 10    Spec Cond +/- 3%    Turb +/- 10%    DO +/- 10%

NOTES:

Start/End time: 11:45 - 12:00 / 12:15 - 12:35  
 Total purge time: 55 min  
 Total volume: ~ 1 gallon  
 Purge rate: 110 mL/min

**\*\*\* PURGED WATER DETAILS \*\*\***

CHARACTERISTICS:  
 Odor: none | slight | moderate | strong  
 Sheen: none | slight | moderate | strong  
 L/DNAPL: Yes | no L/DNAPL thickness (in.): \_\_\_\_\_

*Horiba issue - stopped pump*

## APPENDIX C

# Data Summary Tables

**Table 1: VOCs in Soils**

**GBTS File: 20-0213**

All data in mg/Kg (ppm) U= Not Detected ≥ value Data above SCOs shown in <b>Bold</b>		Sample ID	GSB-03 5		GSB-05 1		GSB-09 2.5		GSB-12 4	
		Sample Date	9/10/2020		9/10/2020		9/10/2020		9/10/2020	
		Dilution Factor	1		1		1		1	
VOCs, #260	UU SCO	RRU SCO	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1,2-Tetrachloroethane	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
1,1,1-Trichloroethane	0.68	100	0.0031	U	0.0026	U	0.0022	U	0.0027	U
1,1,2,2-Tetrachloroethane	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
1,1,2-Trichloroethane	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
1,1-Dichloroethane	0.27	26	0.0031	U	0.0026	U	0.0022	U	0.0027	U
1,1-Dichloroethylene (1,1-DCE)	0.33	100	0.0031	U	0.0026	U	0.0022	U	0.0027	U
1,2,3-Trichlorobenzene	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
1,2,3-Trichloropropane	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
1,2,4-Trichlorobenzene	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
1,2,4-Trimethylbenzene	3.6	52	0.0031	U	0.0026	U	0.0022	U	0.0027	U
1,2-Dibromo-3-chloropropane	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
1,2-Dibromoethane	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
1,2-Dichlorobenzene	1.1	100	0.0031	U	0.0026	U	0.0022	U	0.0027	U
1,2-Dichloroethane	0.02	3.1	0.0031	U	0.0026	U	0.0022	U	0.0027	U
1,2-Dichloropropane	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
1,3,5-Trimethylbenzene	8.4	52	0.0031	U	0.0026	U	0.0022	U	0.0027	U
1,3-Dichlorobenzene	2.4	49	0.0031	U	0.0026	U	0.0022	U	0.0027	U
1,4-Dichlorobenzene	1.8	13	0.0031	U	0.0026	U	0.0022	U	0.0027	U
1,4-Dioxane	0.1	13	0.062	U	0.051	U	0.044	U	0.055	U
2-Butanone (MEK)	0.12	100	0.0031	U	0.0026	U	0.0022	U	0.0027	U
2-Hexanone	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
4-Methyl-2-pentanone	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Acetone	0.05	100	0.013	U	0.017	U	0.0044	U	0.012	U
Acrolein	NA	NA	0.0062	U	0.0051	U	0.0044	U	0.0055	U
Acrylonitrile	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Benzene	0.06	4.8	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Bromochloromethane	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Bromodichloromethane	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Bromoform	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Bromomethane	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Carbon disulfide	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Carbon tetrachloride	0.76	2.4	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Chlorobenzene	1.1	100	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Chloroethane	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Chloroform	0.37	49	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Chloromethane	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
cis-1,2-Dichloroethylene (cis-DCE)	0.25	100	0.0031	U	0.0026	U	0.0022	U	0.0027	U
cis-1,3-Dichloropropylene	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Cyclohexane	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Dibromochloromethane	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Dibromomethane	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Dichlorodifluoromethane	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Ethyl Benzene	1	41	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Hexachlorobutadiene	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Isopropylbenzene	2.3	100	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Methyl acetate	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Methyl tert-butyl ether (MTBE)	0.93	100	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Methylcyclohexane	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Methylene chloride	0.05	100	0.0062	U	0.0051	U	0.0044	U	0.0055	U
n-Butylbenzene	12	100	0.0031	U	0.0026	U	0.0022	U	0.0027	U
n-Propylbenzene	3.9	100	0.0031	U	0.0026	U	0.0022	U	0.0027	U
o-Xylene	0.26	100	0.0031	U	0.0026	U	0.0022	U	0.0027	U
p- & m- Xylenes	0.26	100	0.0062	U	0.0051	U	0.0044	U	0.0055	U
p-Isopropyltoluene	10	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
sec-Butylbenzene	11	100	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Styrene	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
tert-Butyl alcohol (TBA)	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
tert-Butylbenzene	5.9	100	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Tetrachloroethylene (PCE)	1.3	19	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Toluene	0.7	100	0.0031	U	0.0026	U	0.0022	U	0.0027	U
trans-1,2-Dichloroethylene (trans-DCE)	0.19	100	0.0031	U	0.0026	U	0.0022	U	0.0027	U
trans-1,3-Dichloropropylene	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Trichloroethylene (TCE)	0.47	21	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Trichlorofluoromethane	NA	NA	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Vinyl chloride (VC)	0.02	0.9	0.0031	U	0.0026	U	0.0022	U	0.0027	U
Xylenes, Total	0.26	100	0.0093	U	0.0077	U	0.0065	U	0.0082	U

Analyte Detected  
 Analyte Above UU SCO  
 Analyte Above RRU SCO

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available  
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

**Table 1: VOCs in Soils**

GBTS File: 20-0213

All data in mg/Kg (ppm) U= Not Detected ≥ value Data above SCOs shown in <b>Bold</b>			Sample ID	GSB-02 11	
			Sample Date	9/10/2020	
			Dilution Factor	1	
VOCs, 8260	UU SCO	RRU SCO	Result	Qualifier	
1,1,1,2-Tetrachloroethane	NA	NA	0.0027	U	
1,1,1-Trichloroethane	0.68	100	0.0027	U	
1,1,2,2-Tetrachloroethane	NA	NA	0.0027	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	0.0027	U	
1,1,2-Trichloroethane	NA	NA	0.0027	U	
1,1-Dichloroethane	0.27	26	0.0027	U	
1,1-Dichloroethylene (1,1-DCE)	0.33	100	0.0027	U	
1,2,3-Trichlorobenzene	NA	NA	0.0027	U	
1,2,3-Trichloropropane	NA	NA	0.0027	U	
1,2,4-Trichlorobenzene	NA	NA	0.0027	U	
1,2,4-Trimethylbenzene	3.6	52	0.0027	U	
1,2-Dibromo-3-chloropropane	NA	NA	0.0027	U	
1,2-Dibromoethane	NA	NA	0.0027	U	
1,2-Dichlorobenzene	1.1	100	0.0027	U	
1,2-Dichloroethane	0.02	3.1	0.0027	U	
1,2-Dichloropropane	NA	NA	0.0027	U	
1,3,5-Trimethylbenzene	8.4	52	0.0027	U	
1,3-Dichlorobenzene	2.4	49	0.0027	U	
1,4-Dichlorobenzene	1.8	13	0.0027	U	
1,4-Dioxane	0.1	13	0.054	U	
2-Butanone (MEK)	0.12	100	0.0027	U	
2-Hexanone	NA	NA	0.0027	U	
4-Methyl-2-pentanone	NA	NA	0.0027	U	
Acetone	0.05	100	0.0058	J	
Acrolein	NA	NA	0.0054	U	
Acrylonitrile	NA	NA	0.0027	U	
Benzene	0.06	4.8	0.0027	U	
Bromochloromethane	NA	NA	0.0027	U	
Bromodichloromethane	NA	NA	0.0027	U	
Bromoform	NA	NA	0.0027	U	
Bromomethane	NA	NA	0.0027	U	
Carbon disulfide	NA	NA	0.0027	U	
Carbon tetrachloride	0.76	2.4	0.0027	U	
Chlorobenzene	1.1	100	0.0027	U	
Chloroethane	NA	NA	0.0027	U	
Chloroform	0.37	49	0.0027	U	
Chloromethane	NA	NA	0.0027	U	
cis-1,2-Dichloroethylene (cis-DCE)	0.25	100	0.0027	U	
cis-1,3-Dichloropropylene	NA	NA	0.0027	U	
Cyclohexane	NA	NA	0.0027	U	
Dibromochloromethane	NA	NA	0.0027	U	
Dibromomethane	NA	NA	0.0027	U	
Dichlorodifluoromethane	NA	NA	0.0027	U	
Ethyl Benzene	1	41	0.0027	U	
Hexachlorobutadiene	NA	NA	0.0027	U	
Isopropylbenzene	2.3	100	0.0027	U	
Methyl acetate	NA	NA	0.0027	U	
Methyl tert-butyl ether (MTBE)	0.93	100	0.0027	U	
Methylcyclohexane	NA	NA	0.0027	U	
Methylene chloride	0.05	100	0.0054	U	
n-Butylbenzene	12	100	0.0027	U	
n-Propylbenzene	3.9	100	0.0027	U	
o-Xylene	0.26	100	0.0027	U	
p- & m- Xylenes	0.26	100	0.0054	U	
p-Isopropyltoluene	10	NA	0.0027	U	
sec-Butylbenzene	11	100	0.0027	U	
Styrene	NA	NA	0.0027	U	
tert-Butyl alcohol (TBA)	NA	NA	0.0027	U	
tert-Butylbenzene	5.9	100	0.0027	U	
Tetrachloroethylene (PCE)	1.3	19	0.0027	U	
Toluene	0.7	100	0.0027	U	
trans-1,2-Dichloroethylene (trans-DCE)	0.19	100	0.0027	U	
trans-1,3-Dichloropropylene	NA	NA	0.0027	U	
Trichloroethylene (TCE)	0.47	21	0.0027	U	
Trichlorofluoromethane	NA	NA	0.0027	U	
Vinyl chloride (VC)	0.02	0.9	0.0027	U	
Xylenes, Total	0.26	100	0.0081	U	

Analyte Detected

Analyte Above UU SCO

Analyte Above RRU SCO

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available  
Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 2: SVOCs in Soils

GBTS File: 20-0213

Table with columns for Sample ID, Sample Date, Dilution Factor, and various SVOCs across multiple GSB categories (GSB-03 0-5 to GSB-15 0-5 and SV-02). Each SVOC entry includes results from different samples with numerical values and qualitative indicators (U, D, J, E).

Analyte Detected Analyte Above UU SCO Analyte Above RRU SCO based on NYSDEC Part 375-6.8 and CP-51 NA = not available Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted





**Table 3: Pesticides and PCBs in Soils**

GBTS File: 20-0213

All data in mg/Kg (ppm) U= Not Detected ≥ value Data above SCOs shown in <b>Bold</b>		Sample ID	GSB-03 0-5		GSB-05 0-2		GSB-06 0-2		GSB-07 0-5	
		Sample Date	9/10/2020		9/10/2020		9/10/2020		9/10/2020	
		Dilution Factor	5		5		5		5	
<b>Pesticides, 8081</b>	<b>UU SCO</b>	<b>RRU SCO</b>	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>
4,4'-DDD	0.0033	13	0.00176	U	0.00168	U	0.00165	U	0.00179	U
4,4'-DDE	0.0033	8.9	0.00176	U	0.00168	U	0.00165	U	0.00179	U
4,4'-DDT	0.0033	7.9	0.00176	U	0.00168	U	0.00165	U	0.00179	U
Aldrin	0.005	0.097	0.00176	U	0.00168	U	0.00165	U	0.00179	U
alpha-BHC	0.02	0.48	0.00176	U	0.00168	U	0.00165	U	0.00179	U
alpha-Chlordane	0.094	4.2	0.00176	U	0.00168	U	0.00165	U	0.00179	U
beta-BHC	0.036	0.36	0.00176	U	0.00168	U	0.00165	U	0.00179	U
Chlordane (total)	NA	NA	0.0353	U	0.0335	U	0.0329	U	0.0358	U
delta-BHC	0.04	100	0.00176	U	0.00168	U	0.00165	U	0.00179	U
Dieldrin	0.005	0.2	0.00176	U	0.00168	U	0.00165	U	0.00179	U
Endosulfan I	2.4	24	0.00176	U	0.00168	U	0.00165	U	0.00179	U
Endosulfan II	2.4	24	0.00176	U	0.00168	U	0.00165	U	0.00179	U
Endosulfan sulfate	2.4	24	0.00176	U	0.00168	U	0.00165	U	0.00179	U
Endrin	0.014	11	0.00176	U	0.00168	U	0.00165	U	0.00179	U
Endrin aldehyde	NA	NA	0.00176	U	0.00168	U	0.00165	U	0.00179	U
Endrin ketone	NA	NA	0.00176	U	0.00168	U	0.00165	U	0.00179	U
gamma-BHC (Lindane)	0.1	1.3	0.00176	U	0.00168	U	0.00165	U	0.00179	U
gamma-Chlordane	NA	NA	0.00176	U	0.00168	U	0.00165	U	0.00179	U
Heptachlor	0.042	2.1	0.00176	U	0.00168	U	0.00165	U	0.00179	U
Heptachlor Epoxide	NA	NA	0.00176	U	0.00168	U	0.00165	U	0.00179	U
Methoxychlor	NA	NA	0.00882	U	0.00839	U	0.00823	U	0.00894	U
Toxaphene	NA	NA	0.0892	U	0.0849	U	0.0833	U	0.0905	U

		Sample ID	GSB-03 0-5		GSB-05 0-2		GSB-06 0-2		GSB-07 0-5	
		Sample Date	9/10/2020		9/10/2020		9/10/2020		9/10/2020	
		Dilution Factor	1		1		1		1	
<b>PCBs, 8082</b>	<b>UU SCO</b>	<b>RRU SCO</b>	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>
Aroclor 1016	0.1	1.00	0.0178	U	0.0169	U	0.0166	U	0.0181	U
Aroclor 1221	0.1	1.00	0.0178	U	0.0169	U	0.0166	U	0.0181	U
Aroclor 1232	0.1	1.00	0.0178	U	0.0169	U	0.0166	U	0.0181	U
Aroclor 1242	0.1	1.00	0.0178	U	0.0169	U	0.0166	U	0.0181	U
Aroclor 1248	0.1	1.00	0.0178	U	0.0169	U	0.0166	U	0.0181	U
Aroclor 1254	0.1	1.00	0.0178	U	0.0169	U	0.0166	U	0.0181	U
Aroclor 1260	0.1	1.00	0.0178	U	0.0169	U	0.0166	U	0.0181	U
Aroclor, Total	0.1	1.00	0.0178	U	0.0169	U	0.0166	U	0.0181	U

Analyte Detected  
 Analyte Above UU SCO  
 Analyte Above RRU SCO

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available  
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

**Table 3: Pesticides and PCBs in Soils**

GBTS File: 20-0213

All data in mg/Kg (ppm) U= Not Detected ≥ value Data above SCOs shown in <b>Bold</b>		Sample ID	GSB-08 0-2		GSB-10 0-5		GSB-12 0-5		GSB-13 0-2	
		Sample Date	9/10/2020		9/11/2020		9/11/2020		9/11/2020	
		Dilution Factor	5		5		5		5	
<b>Pesticides, 8081</b>	<b>UU SCO</b>	<b>RRU SCO</b>	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>
4,4'-DDD	0.0033	13	0.0017	U	0.00178	U	0.00174	U	0.00174	U
4,4'-DDE	0.0033	8.9	0.0017	U	0.00178	U	0.00174	U	0.00174	U
4,4'-DDT	0.0033	7.9	0.0017	U	0.00178	U	0.00174	U	0.00174	U
Aldrin	0.005	0.097	0.0017	U	0.00178	U	0.00174	U	0.00174	U
alpha-BHC	0.02	0.48	0.0017	U	0.00178	U	0.00174	U	0.00174	U
alpha-Chlordane	0.094	4.2	0.0017	U	0.00178	U	0.00174	U	0.00174	U
beta-BHC	0.036	0.36	0.0017	U	0.00178	U	0.00174	U	0.00174	U
Chlordane (total)	NA	NA	0.0339	U	0.0355	U	0.0348	U	0.0348	U
delta-BHC	0.04	100	0.0017	U	0.00178	U	0.00174	U	0.00174	U
Dieldrin	0.005	0.2	0.0017	U	0.00178	U	0.00174	U	0.00174	U
Endosulfan I	2.4	24	0.0017	U	0.00178	U	0.00174	U	0.00174	U
Endosulfan II	2.4	24	0.0017	U	0.00178	U	0.00174	U	0.00174	U
Endosulfan sulfate	2.4	24	0.0017	U	0.00178	U	0.00174	U	0.00174	U
Endrin	0.014	11	0.0017	U	0.00178	U	0.00174	U	0.00174	U
Endrin aldehyde	NA	NA	0.0017	U	0.00178	U	0.00174	U	0.00174	U
Endrin ketone	NA	NA	0.0017	U	0.00178	U	0.00174	U	0.00174	U
gamma-BHC (Lindane)	0.1	1.3	0.0017	U	0.00178	U	0.00174	U	0.00174	U
gamma-Chlordane	NA	NA	0.0017	U	0.00178	U	0.00174	U	0.00174	U
Heptachlor	0.042	2.1	0.0017	U	0.00178	U	0.00174	U	0.00174	U
Heptachlor Epoxide	NA	NA	0.0017	U	0.00178	U	0.00174	U	0.00174	U
Methoxychlor	NA	NA	0.00848	U	0.00888	U	0.00871	U	0.00871	U
Toxaphene	NA	NA	0.0858	U	0.0899	U	0.0881	U	0.0882	U

		Sample ID	GSB-08 0-2		GSB-10 0-5		GSB-12 0-5		GSB-13 0-2	
		Sample Date	9/10/2020		9/11/2020		9/11/2020		9/11/2020	
		Dilution Factor	1		1		1		1	
<b>PCBs, 8082</b>	<b>UU SCO</b>	<b>RRU SCO</b>	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>
Aroclor 1016	0.1	1.00	0.0171	U	0.0179	U	0.0176	U	0.0176	U
Aroclor 1221	0.1	1.00	0.0171	U	0.0179	U	0.0176	U	0.0176	U
Aroclor 1232	0.1	1.00	0.0171	U	0.0179	U	0.0176	U	0.0176	U
Aroclor 1242	0.1	1.00	0.0171	U	0.0179	U	0.0176	U	0.0176	U
Aroclor 1248	0.1	1.00	0.0171	U	0.0179	U	0.0176	U	0.0176	U
Aroclor 1254	0.1	1.00	0.0171	U	0.0179	U	0.0176	U	0.0176	U
Aroclor 1260	0.1	1.00	0.0171	U	0.0179	U	0.0176	U	0.0176	U
Aroclor, Total	0.1	1.00	0.0171	U	0.0179	U	0.0176	U	0.0176	U

Analyte Detected  
 Analyte Above UU SCO  
 Analyte Above RRU SCO

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available  
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted



**Table 3: Pesticides and PCBs in Soils**

GBTS File: 20-0213

All data in mg/Kg (ppm) U= Not Detected ≥ value Data above SCOs shown in <b>Bold</b>		Sample ID	GSB-15 0-5		SV-02		SV-03		SV-04	
		Sample Date	9/11/2020		9/11/2020		9/11/2020		9/11/2020	
		Dilution Factor	5		5		5		5	
<b>Pesticides, 8081</b>	<b>UU SCO</b>	<b>RRU SCO</b>	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
4,4'-DDD	0.0033	13	0.00171	U	0.00165	U	0.00171	U	0.00176	U
4,4'-DDE	0.0033	8.9	0.00171	U	0.00165	U	0.00171	U	0.00176	U
4,4'-DDT	0.0033	7.9	0.00171	U	0.00165	U	0.00171	U	0.00176	U
Aldrin	0.005	0.097	0.00171	U	0.00165	U	0.00171	U	0.00176	U
alpha-BHC	0.02	0.48	0.00171	U	0.00165	U	0.00171	U	0.00176	U
alpha-Chlordane	0.094	4.2	0.00171	U	0.00165	U	0.00171	U	0.00176	U
beta-BHC	0.036	0.36	0.00171	U	0.00165	U	0.00171	U	0.00176	U
Chlordane (total)	NA	NA	0.0342	U	0.0331	U	0.0342	U	0.0351	U
delta-BHC	0.04	100	0.00171	U	0.00165	U	0.00171	U	0.00176	U
Dieldrin	0.005	0.2	0.00171	U	0.00165	U	0.00171	U	0.00176	U
Endosulfan I	2.4	24	0.00171	U	0.00165	U	0.00171	U	0.00176	U
Endosulfan II	2.4	24	0.00171	U	0.00165	U	0.00171	U	0.00176	U
Endosulfan sulfate	2.4	24	0.00171	U	0.00165	U	0.00171	U	0.00176	U
Endrin	0.014	11	0.00171	U	0.00165	U	0.00171	U	0.00176	U
Endrin aldehyde	NA	NA	0.00171	U	0.00165	U	0.00171	U	0.00176	U
Endrin ketone	NA	NA	0.00171	U	0.00165	U	0.00171	U	0.00176	U
gamma-BHC (Lindane)	0.1	1.3	0.00171	U	0.00165	U	0.00171	U	0.00176	U
gamma-Chlordane	NA	NA	0.00171	U	0.00165	U	0.00171	U	0.00176	U
Heptachlor	0.042	2.1	0.00171	U	0.00165	U	0.00171	U	0.00176	U
Heptachlor Epoxide	NA	NA	0.00171	U	0.00165	U	0.00171	U	0.00176	U
Methoxychlor	NA	NA	0.00856	U	0.00827	U	0.00854	U	0.00878	U
Toxaphene	NA	NA	0.0867	U	0.0837	U	0.0865	U	0.0888	U

		Sample ID	GSB-15 0-5		SV-02		SV-03		SV-04	
		Sample Date	9/11/2020		9/11/2020		9/11/2020		9/11/2020	
		Dilution Factor	1		1		1		1	
<b>PCBs, 8082</b>	<b>UU SCO</b>	<b>RRU SCO</b>	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Aroclor 1016	0.1	1.00	0.0173	U	0.0167	U	0.0173	U	0.0177	U
Aroclor 1221	0.1	1.00	0.0173	U	0.0167	U	0.0173	U	0.0177	U
Aroclor 1232	0.1	1.00	0.0173	U	0.0167	U	0.0173	U	0.0177	U
Aroclor 1242	0.1	1.00	0.0173	U	0.0167	U	0.0173	U	0.0177	U
Aroclor 1248	0.1	1.00	0.0173	U	0.0167	U	0.0173	U	0.0177	U
Aroclor 1254	0.1	1.00	0.0173	U	0.0167	U	0.0173	U	0.0177	U
Aroclor 1260	0.1	1.00	0.0173	U	0.0167	U	0.0173	U	0.0177	U
Aroclor, Total	0.1	1.00	0.0173	U	0.0167	U	0.0173	U	0.0177	U

Analyte Detected  
 Analyte Above UU SCO  
 Analyte Above RRU SCO

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available  
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

**Table 3: Pesticides and PCBs in Soils**

GBTS File: 20-0213

All data in mg/Kg (ppm) U= Not Detected ≥ value Data above SCOs shown in <b>Bold</b>		Sample ID	SV-05		SV-06		HB-01		HB-02	
		Sample Date	9/11/2020		9/11/2020		9/11/2020		9/11/2020	
		Dilution Factor	5		5		5		5	
<b>Pesticides, 8081</b>	<b>UU SCO</b>	<b>RRU SCO</b>	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
4,4'-DDD	0.0033	13	0.00165	U	0.00171	U	0.00188	U	0.00176	U
4,4'-DDE	0.0033	8.9	0.00165	U	0.00171	U	0.00188	U	0.00176	U
4,4'-DDT	0.0033	7.9	0.00165	U	0.00171	U	0.00188	U	0.00176	U
Aldrin	0.005	0.097	0.00165	U	0.00171	U	0.00188	U	0.00176	U
alpha-BHC	0.02	0.48	0.00165	U	0.00171	U	0.00188	U	0.00176	U
alpha-Chlordane	0.094	4.2	0.00165	U	0.00171	U	0.00188	U	0.00176	U
beta-BHC	0.036	0.36	0.00165	U	0.00171	U	0.00188	U	0.00176	U
Chlordane (total)	NA	NA	0.033	U	0.0341	U	0.0375	U	0.0352	U
delta-BHC	0.04	100	0.00165	U	0.00171	U	0.00188	U	0.00176	U
Dieldrin	0.005	0.2	0.00165	U	0.00171	U	0.00188	U	0.00176	U
Endosulfan I	2.4	24	0.00165	U	0.00171	U	0.00188	U	0.00176	U
Endosulfan II	2.4	24	0.00165	U	0.00171	U	0.00188	U	0.00176	U
Endosulfan sulfate	2.4	24	0.00165	U	0.00171	U	0.00188	U	0.00176	U
Endrin	0.014	11	0.00165	U	0.00171	U	0.00188	U	0.00176	U
Endrin aldehyde	NA	NA	0.00165	U	0.00171	U	0.00188	U	0.00176	U
Endrin ketone	NA	NA	0.00165	U	0.00171	U	0.00188	U	0.00176	U
gamma-BHC (Lindane)	0.1	1.3	0.00165	U	0.00171	U	0.00188	U	0.00176	U
gamma-Chlordane	NA	NA	0.00165	U	0.00171	U	0.00188	U	0.00176	U
Heptachlor	0.042	2.1	0.00165	U	0.00171	U	0.00188	U	0.00176	U
Heptachlor Epoxide	NA	NA	0.00165	U	0.00171	U	0.00188	U	0.00176	U
Methoxychlor	NA	NA	0.00826	U	0.00853	U	0.00939	U	0.00881	U
Toxaphene	NA	NA	0.0836	U	0.0863	U	0.095	U	0.0892	U

		Sample ID	SV-05		SV-06		HB-01		HB-02	
		Sample Date	9/11/2020		9/11/2020		9/11/2020		9/11/2020	
		Dilution Factor	1		1		1		1	
<b>PCBs, 8082</b>	<b>UU SCO</b>	<b>RRU SCO</b>	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Aroclor 1016	0.1	1.00	0.0167	U	0.0172	U	0.019	U	0.0178	U
Aroclor 1221	0.1	1.00	0.0167	U	0.0172	U	0.019	U	0.0178	U
Aroclor 1232	0.1	1.00	0.0167	U	0.0172	U	0.019	U	0.0178	U
Aroclor 1242	0.1	1.00	0.0167	U	0.0172	U	0.019	U	0.0178	U
Aroclor 1248	0.1	1.00	0.0167	U	0.0172	U	0.019	U	0.0178	U
Aroclor 1254	0.1	1.00	0.0167	U	0.0172	U	0.019	U	0.0178	U
Aroclor 1260	0.1	1.00	0.0167	U	0.0172	U	0.019	U	0.0178	U
Aroclor, Total	0.1	1.00	0.0167	U	0.0172	U	0.019	U	0.0178	U

Analyte Detected  
 Analyte Above UU SCO  
 Analyte Above RRU SCO

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available  
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

**Table 3: Pesticides and PCBs in Soils**

GBTS File: 20-0213

<i>All data in mg/Kg (ppm)</i>			<b>Sample ID</b>	
<i>U= Not Detected ≥ value</i>			Sample Date	
<i>Data above SCOs shown in Bold</i>			Dilution Factor	
<b>Pesticides, 8081</b>			<b>GSB-02 10-12</b>	
UU SCO	RRU SCO		Result	Qualifier
0.0033	13	4,4'-DDD	0.00169	U
0.0033	8.9	4,4'-DDE	0.00169	U
0.0033	7.9	4,4'-DDT	0.00169	U
0.005	0.097	Aldrin	0.00169	U
0.02	0.48	alpha-BHC	0.00169	U
0.094	4.2	alpha-Chlordane	0.00169	U
0.036	0.36	beta-BHC	0.00169	U
NA	NA	Chlordane (total)	0.0338	U
0.04	100	delta-BHC	0.00169	U
0.005	0.2	Dieldrin	0.00169	U
2.4	24	Endosulfan I	0.00169	U
2.4	24	Endosulfan II	0.00169	U
2.4	24	Endosulfan sulfate	0.00169	U
0.014	11	Endrin	0.00169	U
NA	NA	Endrin aldehyde	0.00169	U
NA	NA	Endrin ketone	0.00169	U
0.1	1.3	gamma-BHC (Lindane)	0.00169	U
NA	NA	gamma-Chlordane	0.00169	U
0.042	2.1	Heptachlor	0.00169	U
NA	NA	Heptachlor Epoxide	0.00169	U
NA	NA	Methoxychlor	0.00844	U
NA	NA	Toxaphene	0.0854	U

<i>All data in mg/Kg (ppm)</i>			<b>Sample ID</b>	
<i>U= Not Detected ≥ value</i>			Sample Date	
<i>Data above SCOs shown in Bold</i>			Dilution Factor	
<b>PCBs, 8082</b>			<b>GSB-02 10-12</b>	
UU SCO	RRU SCO		Result	Qualifier
0.1	1.00	Aroclor 1016	0.017	U
0.1	1.00	Aroclor 1221	0.017	U
0.1	1.00	Aroclor 1232	0.017	U
0.1	1.00	Aroclor 1242	0.017	U
0.1	1.00	Aroclor 1248	0.017	U
0.1	1.00	Aroclor 1254	0.017	U
0.1	1.00	Aroclor 1260	0.017	U
0.1	1.00	Aroclor, Total	0.017	U

Analyte Detected  
 Analyte Above UU SCO  
 Analyte Above RRU SCO

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available  
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

**Table 4: TAL Metals in Soils**

GBTS File: 20-0213

All data in mg/Kg (ppm) U= Not Detected ≥ value Data above SCOs shown in <b>Bold</b>		Sample ID		GSB-03 0-5		GSB-05 0-2		GSB-06 0-2		GSB-07 0-5	
		Sample Date		9/10/2020		9/10/2020		9/10/2020		9/10/2020	
		Dilution Factor		1		1		1		1	
		Metals, 6010 and 7473	UU SCO	RRU SCO	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result
Aluminum	NA	NA	6,940		9,450		7,050		11,600		
Antimony	NA	NA	2.68	U	2.55	U	2.51	U	2.74	U	
Arsenic	13	16	9.05		4.46		5.35		4.84		
Barium	350	400	43.2		36.3		35		70.5		
Beryllium	7.2	72	0.054	U	0.185		0.129		0.221		
Cadmium	2.5	4.3	0.322	U	0.306	U	0.301	U	0.328	U	
Calcium	NA	NA	30,600		8,660		40,800		19,800		
Chromium	30	180	8.84		9.88		7.77		11.1		
Cobalt	NA	NA	4.32		5.56		5.54		7.08		
Copper	50	270	17.6		18.3		30.3		32.7		
Iron	NA	NA	13,100		18,700		14,900		19,700		
Lead	63	400	92.1	B	49	B	109	B	829	B	
Magnesium	NA	NA	8,080		5,160		25,600		3,830		
Manganese	1,600	2,000	631		498		343		569		
Mercury	0.18	0.81	0.532		0.742		0.389		0.478		
Nickel	30	310	12.5		15		12.4		16.6		
Potassium	NA	NA	877	B	1,100	B	1,060	B	1,150	B	
Selenium	3.9	180	2.68	U	2.55	U	2.51	U	2.74	U	
Silver	2	180	0.536	U	0.51	U	0.502	U	0.547	U	
Sodium	NA	NA	312	B	351	B	400	B	664	B	
Thallium	NA	NA	2.68	U	2.55	U	2.51	U	2.74	U	
Vanadium	NA	NA	19.9		9.33		11.7		13.9		
Zinc	109	10,000	82		48.8		52		199		
Cyanide (total)	27	27									

Analyte Detected  
 Analyte Above UU SCO  
 Analyte Above RRU SCO

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available  
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

**Table 4: TAL Metals in Soils**

GBTS File: 20-0213

All data in mg/Kg (ppm) U= Not Detected ≥ value Data above SCOs shown in <b>Bold</b>		Sample ID		GSB-08 0-2		GSB-10 0-5		GSB-12 0-5		GSB-13 0-2	
		Sample Date		9/10/2020		9/11/2020		9/11/2020		9/11/2020	
		Dilution Factor		1		1		1		1	
		Metals, 6010 and 7473	UU SCO	RRU SCO	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result
Aluminum	NA	NA	12,000		9,340		10,500		11,500		
Antimony	NA	NA	2.6	U	2.72	U	2.67	U	2.68	U	
Arsenic	13	16	6.2		9.72		6.54		4.32		
Barium	350	400	62.9		63.7		36.9		69.6		
Beryllium	7.2	72	0.243		0.157		0.273		0.234		
Cadmium	2.5	4.3	0.312	U	0.326	U	0.321	U	0.321	U	
Calcium	NA	NA	14,600		16,600		22,100		6,050		
Chromium	30	180	12.6		11.8		11.8		11		
Cobalt	NA	NA	7.31		6.1		9		5.94		
Copper	50	270	35.5		26		24.9		21.7		
Iron	NA	NA	22,300		17,300		21,600		16,500		
Lead	63	400	95.5	B	129	B	74.3	B	110	B	
Magnesium	NA	NA	8,090		7,050		5,310		3,380		
Manganese	1,600	2,000	511		368		529		407		
Mercury	0.18	0.81	0.271		0.562		0.274		3.33		
Nickel	30	310	20.8		16.5		19.5		14.2		
Potassium	NA	NA	1,160	B	1,250	B	1,140	B	1,140	B	
Selenium	3.9	180	2.6	U	2.72	U	2.67	U	2.68	U	
Silver	2	180	0.519	U	0.544	U	0.535	U	0.535	U	
Sodium	NA	NA	234	B	401	B	447	B	692	B	
Thallium	NA	NA	2.6	U	2.72	U	2.67	U	2.68	U	
Vanadium	NA	NA	16.3		19.5		13.2		13.9		
Zinc	109	10,000	193		88.5		63.9		64.2		
Cyanide (total)	27	27									

Analyte Detected  
 Analyte Above UU SCO  
 Analyte Above RRU SCO

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available  
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted



**Table 4: TAL Metals in Soils**

GBTS File: 20-0213

All data in mg/Kg (ppm) U= Not Detected ≥ value Data above SCOs shown in <b>Bold</b>		Sample ID		GSB-15 0-5		SV-02		SV-03		SV-04	
		Sample Date		9/11/2020		9/11/2020		9/11/2020		9/11/2020	
		Dilution Factor		1		1		1		1	
Metals, 6010 and 7473	UU SCO	RRU SCO	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
Aluminum	NA	NA	6,650		13,500		13,400		11,300		
Antimony	NA	NA	2.64	U	2.57	U	2.65	U	2.72	U	
Arsenic	13	16	3.52		3.96		3.76		5.51		
Barium	350	400	100		37.2		33.8		175		
Beryllium	7.2	72	0.053	U	0.353		0.263		0.279		
Cadmium	2.5	4.3	0.317	U	0.308	U	0.318	U	0.327	U	
Calcium	NA	NA	48,700		14,500		4,290		15,200		
Chromium	30	180	10.8		13.5		12.4		13.1		
Cobalt	NA	NA	2.51		8.48		8.07		5.81		
Copper	50	270	7.44		26.3		21.9		34.8		
Iron	NA	NA	7,480		24,000		23,000		24,800		
Lead	63	400	48.1	B	24.8	B	27.4	B	569	B	
Magnesium	NA	NA	18,200		6,730		5,610		4,410		
Manganese	1,600	2,000	173		741		609		595		
Mercury	0.18	0.81	0.0344		0.0711		0.07		0.802		
Nickel	30	310	6.57		21.7		20.5		16.2		
Potassium	NA	NA	1,180	B	1,550	B	1,660	B	1,470	B	
Selenium	3.9	180	2.64	U	2.57	U	2.65	U	2.72	U	
Silver	2	180	0.528	U	0.513	U	0.53	U	0.544	U	
Sodium	NA	NA	1,160	B	132	B	605	B	263	B	
Thallium	NA	NA	2.64	U	2.57	U	2.65	U	2.72	U	
Vanadium	NA	NA	14.9		13.1		12.4		13		
Zinc	109	10,000	76		59.8		52.6		249		
Cyanide (total)	27	27									

Analyte Detected  
 Analyte Above UU SCO  
 Analyte Above RRU SCO

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available  
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

**Table 4: TAL Metals in Soils**

GBTS File: 20-0213

All data in mg/Kg (ppm) U= Not Detected ≥ value Data above SCOs shown in <b>Bold</b>		Sample ID		SV-05		SV-06		HB-01		HB-02	
		Sample Date		9/11/2020		9/11/2020		9/11/2020		9/11/2020	
		Dilution Factor		1		1		1		1	
		Metals, 6010 and 7473	UU SCO	RRU SCO	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result
Aluminum	NA	NA	13,600		11,500		10,400		12,100		
Antimony	NA	NA	2.56	U	2.59	U	2.85	U	2.68	U	
Arsenic	13	16	3.83		3.57		4.32		4.39		
Barium	350	400	41.1		32.4		54.8		34.8		
Beryllium	7.2	72	0.304		0.278		0.134		0.111		
Cadmium	2.5	4.3	0.307	U	0.311	U	0.342	U	0.321	U	
Calcium	NA	NA	979		2,080		9,340		7,000		
Chromium	30	180	13		12.4		11.9		12.4		
Cobalt	NA	NA	9.03		7.86		5.75		6.81		
Copper	50	270	24.2		22.6		26.9		20.7		
Iron	NA	NA	23,500		22,500		16,900		20,300		
Lead	63	400	27.5	B	30.9	B	124	B	41.6	B	
Magnesium	NA	NA	5,650		6,390		4,660		5,360		
Manganese	1,600	2,000	615		712		483		532		
Mercury	0.18	0.81	0.48		0.139		2.89		1.36		
Nickel	30	310	20.6		19.4		14.5		16.9		
Potassium	NA	NA	1,490	B	1,020	B	1,220	B	1,470	B	
Selenium	3.9	180	2.56	U	2.59	U	2.85	U	2.68	U	
Silver	2	180	0.512	U	0.519	U	0.571	U	0.536	U	
Sodium	NA	NA	76	B	128	B	144	B	619	B	
Thallium	NA	NA	2.56	U	2.59	U	2.85	U	2.68	U	
Vanadium	NA	NA	13.2		12		13.2		14		
Zinc	109	10,000	62.8		57		79.9		44.3		
Cyanide (total)	27	27									

Analyte Detected  
 Analyte Above UU SCO  
 Analyte Above RRU SCO

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available  
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

**Table 4: TAL Metals in Soils**

GBTS File: 20-0213

All data in mg/Kg (ppm) U= Not Detected ≥ value Data above SCOs shown in <b>Bold</b>		Sample ID		GSB-01 0-2		GSB-02 0-2		GSB-04 0-5		GSB-09 2-3	
		Sample Date		9/10/2020		9/10/2020		9/10/2020		9/10/2020	
		Dilution Factor		1		1		1		1	
		Metals, 6010 and 7473	UU SCO	RRU SCO	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result
Aluminum	NA	NA	16,800		13,000		12,000		14,400		
Antimony	NA	NA	2.79	U	2.67	U	2.64	U	2.86	U	
Arsenic	13	16	7.12		5.73		5.21		5.74		
Barium	350	400	60.2		33		33.8		59.2		
Beryllium	7.2	72	0.111		0.264		0.308		0.224		
Cadmium	2.5	4.3	0.335	U	0.32	U	0.317	U	0.344	U	
Calcium	NA	NA	804		549		993		629		
Chromium	30	180	15.7		13.1		13.1		13		
Cobalt	NA	NA	8.81		8.6		7.45		7.47		
Copper	50	270	19.9		24		24.8		25		
Iron	NA	NA	23,200		23,000		22,900		20,200		
Lead	63	400	17.7	B	16.9	B	15.1	B	44.6	B	
Magnesium	NA	NA	3,740		4,990		5,690		3,720		
Manganese	1,600	2,000	318		578		609		539		
Mercury	0.18	0.81	0.0679		0.0814		0.0317	U	0.3		
Nickel	30	310	18.7		19.9		19.4		17.4		
Potassium	NA	NA	1,380	B	1,030	B	1,160	B	1,250	B	
Selenium	3.9	180	2.79	U	2.67	U	2.64	U	2.86	U	
Silver	2	180	0.558	U	0.534	U	0.529	U	0.573	U	
Sodium	NA	NA	175	B	210	B	84.2	B	587	B	
Thallium	NA	NA	2.79	U	2.67	U	2.64	U	2.86	U	
Vanadium	NA	NA	21.9		13.8		13		16.3		
Zinc	109	10,000	212		49.2		49.7		58.7		
Cyanide (total)	27	27									

Analyte Detected  
 Analyte Above UU SCO  
 Analyte Above RRU SCO

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available  
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

**Table 4: TAL Metals in Soils**

GBTS File: 20-0213

All data in mg/Kg (ppm) U= Not Detected ≥ value Data above SCOs shown in <b>Bold</b>		Sample ID		GSB-11 0-5		GSB-14 0-2		GSB-16 0-5		GSB-02 10-12	
		Sample Date		9/11/2020		9/11/2020		9/11/2020		9/10/2020	
		Dilution Factor		1		1		1		1	
		Metals, 6010 and 7473	UU SCO	RRU SCO	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result
Aluminum	NA	NA	9,410		9,450		12,300		7,660		
Antimony	NA	NA	2.58	U	2.64	U	3.25	U	2.58	U	
Arsenic	13	16	6.65		7.56		10.7		6.56		
Barium	350	400	41.9		43.6		344		35.9		
Beryllium	7.2	72	0.215		0.053	U	0.065	U	0.179		
Cadmium	2.5	4.3	0.31	U	0.316	U	0.39	U	0.309	U	
Calcium	NA	NA	27,000	B	29,900	B	8,690	B	1,360	B	
Chromium	30	180	12.4	B	15.2	B	16.9	B	12.9	B	
Cobalt	NA	NA	7.45		8.96		9.97		8.73		
Copper	50	270	27		31.7		41.6		26.6		
Iron	NA	NA	19,900		23,500		19,500		21,100		
Lead	63	400	47.4		62		229		14.7		
Magnesium	NA	NA	7,100		12,600		3,600		5,820		
Manganese	1,600	2,000	588		722		605		654		
Mercury	0.18	0.81	0.628		0.339		1.29		0.0309	U	
Nickel	30	310	18.4		21.8		22.9		20.3		
Potassium	NA	NA	1,030	B	991	B	1,040	B	882	B	
Selenium	3.9	180	2.58	U	2.64	U	3.25	U	2.58	U	
Silver	2	180	0.516	U	0.527	U	0.649	U	0.515	U	
Sodium	NA	NA	361	B	221	B	744	B	165	B	
Thallium	NA	NA	2.58	U	2.64	U	3.25	U	2.58	U	
Vanadium	NA	NA	16.6		21		21.8		12.2		
Zinc	109	10,000	60.8		108		72.4		54.5		
Cyanide (total)	27	27									

Analyte Detected  
 Analyte Above UU SCO  
 Analyte Above RRU SCO

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available  
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

**Table 5: VOCs in Groundwater**  
**GBTS File: 20-0213**

All data in µg/L (parts per billion, ppb)	Sample ID	MW-01 20201012		MW-02 20201012		MW-03 20201012		DUP 20201012	
U= Not Detected ≥ indicated value	Sample Date	(2020-10-12)		(2020-10-12)		(2020-10-12)		(2020-10-12)	
Data above AWQS shown in <b>Bold</b>	Dilution Factor	1		1		1		1	
<b>VOCs, 8260</b>	<b>AWQS</b>	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1,2-tetrachloroethane	5	2.5	U	2.5	U	2.5	U	2.5	U
1,1,1-trichloroethane	5	2.5	U	2.5	U	2.5	U	2.5	U
1,1,2,2-tetrachloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-trichloroethane	1	1.5	U	1.5	U	1.5	U	1.5	U
1,1-dichloroethane	5	2.5	U	2.5	U	2.5	U	2.5	U
1,1-dichloroethylene (1,1-DCE)	5	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-trichlorobenzene	5	2.5	U	2.5	U	2.5	U	2.5	U
1,2,3-trichloropropane	0.04	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-trichlorobenzene	5	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-trimethylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U
1,2-dibromo-3-chloropropane	0.04	2.5	U	2.5	U	2.5	U	2.5	U
1,2-dibromoethane	5	2	U	2	U	2	U	2	U
1,2-dichlorobenzene	3	2.5	U	2.5	U	2.5	U	2.5	U
1,2-dichloroethane	0.6	0.5	U	0.5	U	0.5	U	0.5	U
1,2-dichloropropane	1	1	U	1	U	1	U	1	U
1,3,5-trimethylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U
1,3-dichlorobenzene	3	2.5	U	2.5	U	2.5	U	2.5	U
1,4-dichlorobenzene	3	2.5	U	2.5	U	2.5	U	2.5	U
1,4-dioxane	NA	250	U	250	U	250	U	250	U
2-butanone (MEK)	50	5	U	5	U	5	U	5	U
2-hexanone (MBK)	50	5	U	5	U	5	U	5	U
4-methyl-2-pentanone	NA	5	U	5	U	5	U	5	U
acetone	50	5	U	5	U	5	U	5	U
acrolein	5	5	U	5	U	5	U	5	U
acrylonitrile	5	5	U	5	U	5	U	5	U
benzene	1	0.5	U	0.5	U	0.5	U	0.5	U
bromochloromethane	5	2.5	U	2.5	U	2.5	U	2.5	U
bromodichloromethane	50	0.5	U	0.5	U	0.5	U	0.5	U
bromoform	50	2	U	2	U	2	U	2	U
bromomethane	5	2.5	U	2.5	U	2.5	U	2.5	U
carbon disulfide	NA	5	U	5	U	5	U	5	U
carbon tetrachloride	5	0.5	U	0.5	U	0.5	U	0.5	U
chlorobenzene	5	2.5	U	2.5	U	2.5	U	2.5	U
chloroethane	5	2.5	U	2.5	U	2.5	U	2.5	U
chloroform	7	2.5	U	2.5	U	2.5	U	2.5	U
chloromethane	5	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,2-dichloroethylene (cis-DCE)	5	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,3-dichloropropylene	0.4	10	U	10	U	10	U	10	U
cyclohexane	NA	0.5	U	0.5	U	0.5	U	0.5	U
dibromochloromethane	5	5	U	5	U	5	U	5	U
dibromomethane	5	5	U	5	U	5	U	5	U
dichlorodifluoromethane	5	2.5	U	2.5	U	2.5	U	2.5	U
ethyl benzene	5	2.5	U	2.5	U	2.5	U	2.5	U
hexachlorobutadiene	0.5	2.5	U	2.5	U	2.5	U	2.5	U
isopropylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U
methyl acetate	NA	2	U	2	U	2	U	2	U
methylcyclohexane	NA	10	U	10	U	10	U	10	U
methyl tert-butyl ether (MTBE)	10	2.5	U	2.5	U	2.5	U	2.5	U
methylene chloride	5	2.5	U	2.5	U	2.5	U	2.5	U
n-butylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U
n-propylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U
o-xylene (included in total xylenes)	5	2.5	U	2.5	U	2.5	U	2.5	U
p- & m- xylenes (included in total xylenes)	5	2.5	U	2.5	U	2.5	U	2.5	U
p-isopropyltoluene	5	2.5	U	2.5	U	2.5	U	2.5	U
sec-butylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U
styrene	5	2.5	U	2.5	U	2.5	U	2.5	U
tert-butyl alcohol (TBA)	NA	10	U	10	U	10	U	10	U
tert-butylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U
tetrachloroethylene (PCE)	5	0.5	U	0.5	U	0.5	U	0.5	U
toluene	5	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,2-dichloroethylene (trans-DCE)	5	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,3-dichloropropylene	0.4	0.5	U	0.5	U	0.5	U	0.5	U
trichloroethylene (TCE)	5	0.5	U	0.5	U	0.5	U	0.5	U
trichlorofluoromethane	5	2.5	U	2.5	U	2.5	U	2.5	U
vinyl chloride (VC)	2	1	U	1	U	1	U	1	U
xylenes, total	5	2.5	U	2.5	U	2.5	U	2.5	U
<b>TOTAL chlorinated compounds</b>		<b>Not Detected</b>		<b>Not Detected</b>		<b>Not Detected</b>		<b>Not Detected</b>	
<b>TOTAL PCE, TCE and breakdown products</b>		<b>Not Detected</b>		<b>Not Detected</b>		<b>Not Detected</b>		<b>Not Detected</b>	
<b>TOTAL petroleum compounds</b>		<b>Not Detected</b>		<b>Not Detected</b>		<b>Not Detected</b>		<b>Not Detected</b>	
<b>TOTAL BTEX</b>		<b>Not Detected</b>		<b>Not Detected</b>		<b>Not Detected</b>		<b>Not Detected</b>	
<b>TOTAL VOCs</b>		<b>Not Detected</b>		<b>Not Detected</b>		<b>Not Detected</b>		<b>Not Detected</b>	

Notes: AWQS based on NYSDEC TOGS 1.1.1 (Class GA) NA = not available  
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted



**Table 5: VOCs in Groundwater**  
**GBTS File: 20-0213**

All data in µg/L (parts per billion, ppb)	Sample ID	TB 20201012	
U= Not Detected ≥ indicated value	Sample Date	(2020-10-12)	
Data above AWQS shown in <b>Bold</b>	Dilution Factor	1	
VOCs, 8260	AWQS	Result	Qualifier
1,1,1,2-tetrachloroethane	5	2.5	U
1,1,1-trichloroethane	5	2.5	U
1,1,2,2-tetrachloroethane	5	0.5	U
1,1,2-trichloroethane	1	1.5	U
1,1-dichloroethane	5	2.5	U
1,1-dichloroethylene (1,1-DCE)	5	0.5	U
1,2,3-trichlorobenzene	5	2.5	U
1,2,3-trichloropropane	0.04	2.5	U
1,2,4-trichlorobenzene	5	2.5	U
1,2,4-trimethylbenzene	5	2.5	U
1,2-dibromo-3-chloropropane	0.04	2.5	U
1,2-dibromoethane	5	2	U
1,2-dichlorobenzene	3	2.5	U
1,2-dichloroethane	0.6	0.5	U
1,2-dichloropropane	1	1	U
1,3,5-trimethylbenzene	5	2.5	U
1,3-dichlorobenzene	3	2.5	U
1,4-dichlorobenzene	3	2.5	U
1,4-dioxane	NA	250	U
2-butanone (MEK)	50	5	U
2-hexanone (MBK)	50	5	U
4-methyl-2-pentanone	NA	5	U
acetone	50	5	U
acrolein	5	5	U
acrylonitrile	5	5	U
benzene	1	0.5	U
bromochloromethane	5	2.5	U
bromodichloromethane	50	0.5	U
bromoform	50	2	U
bromomethane	5	2.5	U
carbon disulfide	NA	5	U
carbon tetrachloride	5	0.5	U
chlorobenzene	5	2.5	U
chloroethane	5	2.5	U
chloroform	7	2.5	U
chloromethane	5	2.5	U
cis-1,2-dichloroethylene (cis-DCE)	5	0.5	U
cis-1,3-dichloropropylene	0.4	10	U
cyclohexane	NA	0.5	U
dibromochloromethane	5	5	U
dibromomethane	5	5	U
dichlorodifluoromethane	5	2.5	U
ethyl benzene	5	2.5	U
hexachlorobutadiene	0.5	2.5	U
isopropylbenzene	5	2.5	U
methyl acetate	NA	2	U
methylcyclohexane	NA	10	U
methyl tert-butyl ether (MTBE)	10	2.5	U
methylene chloride	5	2.5	U
n-butylbenzene	5	2.5	U
n-propylbenzene	5	2.5	U
o-xylene (included in total xylenes)	5	2.5	U
p- & m- xylenes (included in total xylenes)	5	2.5	U
p-isopropyltoluene	5	2.5	U
sec-butylbenzene	5	2.5	U
styrene	5	2.5	U
tert-butyl alcohol (TBA)	NA	10	U
tert-butylbenzene	5	2.5	U
tetrachloroethylene (PCE)	5	0.5	U
toluene	5	2.5	U
trans-1,2-dichloroethylene (trans-DCE)	5	2.5	U
trans-1,3-dichloropropylene	0.4	0.5	U
trichloroethylene (TCE)	5	0.5	U
trichlorofluoromethane	5	2.5	U
vinyl chloride (VC)	2	1	U
xylenes, total	5	2.5	U
<b>TOTAL chlorinated compounds</b>		<b>Not Detected</b>	
<b>TOTAL PCE, TCE and breakdown products</b>		<b>Not Detected</b>	
<b>TOTAL petroleum compounds</b>		<b>Not Detected</b>	
<b>TOTAL BTEX</b>		<b>Not Detected</b>	
<b>TOTAL VOCs</b>		<b>Not Detected</b>	

Notes: AWQS based on NYSDEC TOGS 1.1.1 (Class GA) NA = not available  
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

Table 6: SVOCs in Groundwater

GBTS File: 20-0213

All data in µg/L (parts per billion, ppb) U= Not Detected ≥ indicated value Data above AWQS shown in <b>Bold</b>		Sample ID	MW-01 20201012		MW-02 20201012		MW-03 20201012		DUP 20201012	
		Sample Date	(2020-10-12)		(2020-10-12)		(2020-10-12)		(2020-10-12)	
		Dilution Factor	1		1		1		1	
SVOCs, 8270	AWQS	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,1'-biphenyl	5	2	U	2	U	2	U	2	U	
1,2,4,5-tetrachlorobenzene	5	10	U	10	U	10	U	10	U	
1,2,4-trichlorobenzene	5	5	U	5	U	5	U	5	U	
1,2-dichlorobenzene	3	2	U	2	U	2	U	2	U	
1,2-diphenylhydrazine (azobenzene)	NA	2	U	2	U	2	U	2	U	
1,3-dichlorobenzene	3	2	U	2	U	2	U	2	U	
1,4-dichlorobenzene	3	2	U	2	U	2	U	2	U	
2,3,4,6-tetrachlorophenol	NA	5	U	5	U	5	U	5	U	
2,4,5-trichlorophenol	NA	5	U	5	U	5	U	5	U	
2,4,6-trichlorophenol	NA	5	U	5	U	5	U	5	U	
2,4-dichlorophenol	5	5	U	5	U	5	U	5	U	
2,4-dimethylphenol	50	5	U	5	U	5	U	5	U	
2,4-dinitrophenol	10	20	U	20	U	20	U	20	U	
2,4-dinitrotoluene	5	5	U	5	U	5	U	5	U	
2,6-dinitrotoluene	5	5	U	5	U	5	U	5	U	
2-chloronaphthalene	10	0.2	U	0.2	U	0.2	U	0.2	U	
2-chlorophenol	NA	2	U	2	U	2	U	2	U	
2-methylnaphthalene	NA	0.1	U	0.1	U	0.1	U	0.1	U	
2-methylphenol	NA	5	U	5	U	5	U	5	U	
2-nitroaniline	5	5	U	5	U	5	U	5	U	
2-nitrophenol	NA	10	U	10	U	10	U	10	U	
3- & 4-methylphenols	NA	5	U	5	U	5	U	5	U	
3,3'-dichlorobenzidine	5	5	U	5	U	5	U	5	U	
3-nitroaniline	5	5	U	5	U	5	U	5	U	
4,6-dinitro-2-methylphenol	NA	10	U	10	U	10	U	10	U	
4-bromophenyl phenyl ether	NA	2	U	2	U	2	U	2	U	
4-chloro-3-methylphenol	NA	2	U	2	U	2	U	2	U	
4-chloroaniline	5	5	U	5	U	5	U	5	U	
4-chlorophenyl phenyl ether	NA	2	U	2	U	2	U	2	U	
4-nitroaniline	5	5	U	5	U	5	U	5	U	
4-nitrophenol	5	10	U	10	U	10	U	10	U	
acenaphthene	20	0.1	U	0.03	J	0.1	U	0.1	U	
acenaphthylene	NA	0.1	U	0.1	U	0.1	U	0.1	U	
acetophenone	NA	5	U	5	U	5	U	5	U	
aniline	5	2	U	2	U	2	U	2	U	
anthracene	50	0.1	U	0.02	J	0.1	U	0.1	U	
atrazine	7.5	10	U	10	U	10	U	10	U	
benzaldehyde	NA	5	U	5	U	5	U	5	U	
benzidine	5	20	U	20	U	20	U	20	U	
benzo(a)anthracene	0.002	0.1	U	0.1	U	0.1	U	0.1	U	
benzo(a)pyrene	ND	0.1	U	0.1	U	0.1	U	0.1	U	
benzo(b)fluoranthene	0.002	0.1	U	0.1	U	0.1	U	0.1	U	
benzo(g,h,i)perylene	NA	0.1	U	0.1	U	0.1	U	0.1	U	
benzo(k)fluoranthene	0.002	0.1	U	0.1	U	0.1	U	0.1	U	
benzoic acid	NA	50	U	50	U	50	U	50	U	
benzyl alcohol	NA	2	U	2	U	2	U	2	U	
benzyl butyl phthalate	50	5	U	5	U	5	U	5	U	
bis(2-chloroethoxy)methane	5	5	U	5	U	5	U	5	U	
bis(2-chloroethyl)ether	1	2	U	2	U	2	U	2	U	
bis(2-chloroisopropyl)ether	NA	2	U	2	U	2	U	2	U	
bis(2-ethylhexyl)phthalate	5	3	U	3	U	3	U	3	U	
caprolactam	NA	10	U	10	U	10	U	10	U	
carbazole	NA	2	U	2	U	2	U	2	U	
chrysene	0.002	0.1	U	0.1	U	0.1	U	0.1	U	
dibenzo(a,h)anthracene	NA	0.1	U	0.1	U	0.1	U	0.1	U	
dibenzofuran	NA	2	U	2	U	2	U	2	U	
diethyl phthalate	50	5	U	5	U	5	U	5	U	
dimethyl phthalate	50	5	U	5	U	5	U	5	U	
di-n-butyl phthalate	50	5	U	5	U	5	U	5	U	
di-n-octyl phthalate	50	5	U	5	U	5	U	5	U	
fluoranthene	50	0.1	U	0.02	J	0.1	U	0.1	U	
fluorene	50	0.1	U	0.02	J	0.1	U	0.1	U	
hexachlorobenzene	0.04	0.8	U	0.8	U	0.8	U	0.8	U	
hexachlorobutadiene	0.5	0.5	U	0.5	U	0.5	U	0.5	U	
hexachlorocyclopentadiene	5	20	U	20	U	20	U	20	U	
hexachloroethane	5	0.8	U	0.8	U	0.8	U	0.8	U	
indeno(1,2,3-cd)pyrene	0.002	0.1	U	0.1	U	0.1	U	0.1	U	
isophorone	50	5	U	5	U	5	U	5	U	
naphthalene	10	0.1	U	0.1	U	0.1	U	0.1	U	
nitrobenzene	0.4	2	U	2	U	2	U	2	U	
n-nitrosodimethylamine	50	2	U	2	U	2	U	2	U	
n-nitroso-di-n-propylamine	NA	5	U	5	U	5	U	5	U	
n-nitrosodiphenylamine	50	2	U	2	U	2	U	2	U	
pentachlorophenol	1	0.8	U	0.8	U	0.8	U	0.8	U	
phenanthrene	50	0.1	U	0.07	J	0.1	U	0.1	U	
phenol	1	5	U	5	U	5	U	5	U	
pyrene	50	0.1	U	0.03	J	0.1	U	0.1	U	

Detected concentrations  
Concentrations above AWQS

Notes: AWQS based on NYSDEC TOGS 1.1.1 (Class GA) NA = not available  
Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

**Table 7: Pesticides and PCBs in Groundwater**

GBTS File: 20-0213

All data in $\mu\text{g/L}$ (parts per billion, ppb) U= Not Detected $\geq$ indicated value Data above AWQS shown in <b>Bold</b>									
Sample ID		MW-01 20201012		MW-02 20201012		MW-03 20201012		DUP 20201012	
Sample Date		(2020-10-12)		(2020-10-12)		(2020-10-12)		(2020-10-12)	
Dilution Factor		1		1		1		1	
<b>Pesticides, 8081</b>	<b>AWQS</b>	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
4,4'-DDD	0.3	0.029	U	0.029	U	0.029	U	0.029	U
4,4'-DDE	0.2	0.029	U	0.029	U	0.029	U	0.029	U
4,4'-DDT	0.2	0.029	U	0.029	U	0.029	U	0.029	U
aldrin	NE	0.014	U	0.014	U	0.014	U	0.014	U
alpha-BHC	0.01	0.014	U	0.014	U	0.014	U	0.014	U
beta-BHC	0.04	0.014	U	0.014	U	0.014	U	0.014	U
chlordane, total	0.05	0.143	U	0.143	U	0.143	U	0.143	U
delta-BHC	0.04	0.014	U	0.014	U	0.014	U	0.014	U
dieldrin	0.004	0.029	U	0.029	U	0.029	U	0.029	U
endosulfan I	NA	0.014	U	0.014	U	0.014	U	0.014	U
endosulfan II	NA	0.029	U	0.029	U	0.029	U	0.029	U
endosulfan sulfate	NA	0.029	U	0.029	U	0.029	U	0.029	U
endrin	NA	0.029	U	0.029	U	0.029	U	0.029	U
endrin aldehyde	5	0.029	U	0.029	U	0.029	U	0.029	U
endrin ketone	5	0.029	U	0.029	U	0.029	U	0.029	U
gamma-BHC (lindane)	0.05	0.014	U	0.014	U	0.014	U	0.014	U
heptachlor	0.04	0.014	U	0.014	U	0.014	U	0.014	U
heptachlor epoxide	0.03	0.014	U	0.014	U	0.014	U	0.014	U
methoxychlor	35	0.143	U	0.143	U	0.143	U	0.143	U
toxaphene	0.06	0.143	U	0.143	U	0.143	U	0.143	U

Sample ID									
Sample Date		MW-01 20201012		MW-02 20201012		MW-03 20201012		DUP 20201012	
(2020-10-02)		(2020-10-02)		(2020-10-02)		(2020-10-02)		(2020-10-02)	
Dilution Factor		1		1		1		1	
<b>PCBs, 8082</b>	<b>AWQS</b>	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Aroclor 1016	0.09	0.083	U	0.083	U	0.083	U	0.083	U
Aroclor 1221	0.09	0.083	U	0.083	U	0.083	U	0.083	U
Aroclor 1232	0.09	0.083	U	0.083	U	0.083	U	0.083	U
Aroclor 1242	0.09	0.083	U	0.083	U	0.083	U	0.083	U
Aroclor 1248	0.09	0.083	U	0.083	U	0.083	U	0.083	U
Aroclor 1254	0.09	0.083	U	0.083	U	0.083	U	0.083	U
Aroclor 1260	0.09	0.083	U	0.083	U	0.083	U	0.083	U
Aroclor 1262	0.09	0.083	U	0.083	U	0.083	U	0.083	U
Aroclor 1268	0.09	0.083	U	0.083	U	0.083	U	0.083	U
Aroclor, Total	0.09	0.083	U	0.083	U	0.083	U	0.083	U

Detected concentrations

**Concentrations above AWQS**

 Notes: AWQS based on NYSDEC TOGS 1.1.1 (Class GA) NA = not available  
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

**Table 8: TAL Metals (Total) in Groundwater**

GBTS File: 20-0213

All data in µg/L (parts per billion, ppb) U= Not Detected ≥ indicated value Data above AWQS shown in <b>Bold</b>		Sample ID		MW-01 20201012		MW-02 20201012		MW-03 20201012		DUP 20201012	
		Sample Date		(2020-10-12)		(2020-10-12)		(2020-10-12)		(2020-10-12)	
		Dilution Factor		1		1		1		1	
Metals, 6010 and 7473	AWQS	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
aluminum	NA	36.6		406		213		408			
antimony	3	4	U	1.11	J	4	U	1.03	J		
arsenic	25	0.54		0.77		2.05		0.89			
barium	1,000	44.11		103.7		56.86		101.5			
beryllium	3	0.5	U	0.5	U	0.5	U	0.5	U		
cadmium	5	0.2	U	0.2	U	0.12	J	0.2	U		
calcium	NA	42,000		40,400		132,000		38,000			
chromium	50	0.33	J	0.65	J	0.3	J	0.59	J		
cobalt	5	0.5	U	0.5		1.84		0.62			
copper	200	0.91	J	2.15		1.49		2.05			
iron**	300	58.3		<b>850</b>		<b>788</b>		<b>822</b>			
lead	25	1	U	0.76	J	1.14		0.82	J		
magnesium	35,000	10,500		16,300		24,600		15,800			
manganese**	300	36.77		83.09		<b>812.1</b>		91.88			
mercury	0.7	0.2	U	0.2	U	0.2	U	0.2	U		
nickel	100	2	U	1.06	J	3.06		1.16	J		
potassium	NA	5,660		2,290		22,600		2,150			
selenium	10	1.79	J	5	U	5	U	5	U		
silver	50	0.4	U	0.4	U	0.4	U	0.4	U		
sodium	20,000	<b>82,400</b>		<b>121,000</b>		<b>529,000</b>		<b>128,000</b>			
thallium	0.5	0.5	U	0.5	U	0.23	J	0.5	U		
vanadium	14	1.58	J	2.48	J	5	U	2.22	J		
zinc	2,000	10	U	10	U	5.34	J	10	U		

\*\* combined iron and manganese = 500

Detected concentrations  
**Concentrations above AWQS**

Notes: AWQS based on NYSDEC TOGS 1.1.1 (Class GA) NA = not available  
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

**Table 9: TAL Metals (Dissolved) in Groundwater**

GBTS File: 20-0213

All data in µg/L (parts per billion, ppb) U= Not Detected ≥ indicated value Data above AWQS shown in <b>Bold</b>		Sample ID		MW-01 20201012		MW-02 20201012		MW-03 20201012		DUP 20201012	
		Sample Date		(2020-10-12)		(2020-10-12)		(2020-10-12)		(2020-10-12)	
		Dilution Factor		1		1		1		1	
Metals, 6010 and 7473	AWQS	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier		
aluminum	NA	11.2		11.9		100	U	12			
antimony	3	0.89	J	1.55	J	40	U	1.29	J		
arsenic	25	0.46	J	0.48	J	5	U	0.67			
barium	1,000	42.77		100		51.74		97.79			
beryllium	3	0.5	U	0.5	U	5	U	0.5	U		
cadmium	5	0.2	U	0.2	U	2	U	0.2	U		
calcium	NA	42,000		38,700		150,000		38,600			
chromium	50	0.33	J	1	U	10	U	1	U		
cobalt	5	0.5	U	0.5	U	5	U	0.2	J		
copper	200	0.81	J	0.9	J	10	U	0.85	J		
iron**	300	50	U	50	U	500	U	50	U		
lead	25	1	U	1	U	10	U	1	U		
magnesium	35,000	10,000		15,900		24,200		15,700			
manganese**	300	31.07		56.81		893.2		76.07			
mercury	0.7	0.2	U	0.2	U	0.2	U	0.2	U		
nickel	100	2	U	2	U	20	U	2	U		
potassium	NA	5,560		2,260		23,800		2,150			
selenium	10	1.88	J	5	U	50	U	5	U		
silver	50	0.4	U	0.4	U	4	U	0.4	U		
sodium	20,000	80,400		119,000		575,000		131,000			
thallium	0.5	0.2	J	0.5	U	5	U	0.5	U		
vanadium	14	1.72	J	1.78	J	50	U	1.77	J		
zinc	2,000	10	U	10	U	100	U	10	U		

\*\* combined iron and manganese = 500

Detected concentrations  
**Concentrations above AWQS**

Notes: AWQS based on NYSDEC TOGS 1.1.1 (Class GA) NA = not available  
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted



**Table 10: VOCs in Soil Vapor**  
**GBTS File: 20-0213**

All data in $\mu\text{g}/\text{m}^3$ U= Not Detected $\geq$ value	Sample ID	SV-01		SV-02		SV-03	
	Sample Date	9/11/2020		9/11/2020		9/11/2020	
	Dilution Factor	1		1		1	
VOCs, TO-15	Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,1,1-Trichloroethane	1.28		2.55		2.63		
1,1,2,2-Tetrachloroethane	1.37	U	1.37	U	1.37	U	
1,1,2-Trichloroethane	1.09	U	1.09	U	1.09	U	
1,1-Dichloroethane	0.809	U	0.809	U	0.809	U	
1,1-Dichloroethene	0.793	U	0.793	U	0.793	U	
1,2,4-Trichlorobenzene	1.48	U	1.48	U	1.48	U	
1,2,4-Trimethylbenzene	0.983	U	0.988		1.38		
1,2-Dibromoethane	1.54	U	1.54	U	1.54	U	
1,2-Dichlorobenzene	1.2	U	1.2	U	1.2	U	
1,2-Dichloroethane	0.809	U	0.809	U	0.809	U	
1,2-Dichloropropane	0.924	U	0.924	U	0.924	U	
1,3,5-Trimethylbenzene	0.983	U	0.983	U	0.983	U	
1,3-Butadiene	0.442	U	0.442	U	0.52		
1,3-Dichlorobenzene	1.2	U	1.2	U	1.2	U	
1,4-Dichlorobenzene	1.2	U	1.2	U	1.2	U	
1,4-Dioxane	0.721	U	0.721	U	0.721	U	
2,2,4-Trimethylpentane	0.934	U	0.934	U	0.934	U	
2-Butanone	1.47	U	7.31		7.4		
2-Hexanone	0.82	U	0.82	U	0.975		
3-Chloropropene	0.626	U	0.626	U	0.626	U	
4-Ethyltoluene	0.983	U	0.983	U	0.983	U	
4-Methyl-2-pentanone	2.05	U	2.05	U	2.05	U	
Acetone	6.29		63.7		40.4		
Benzene	0.639	U	0.639	U	3.51		
Benzyl chloride	1.04	U	1.04	U	1.04	U	
Bromodichloromethane	1.34	U	1.34	U	1.34	U	
Bromoform	2.07	U	2.07	U	2.07	U	
Bromomethane	0.777	U	0.777	U	0.777	U	
Carbon disulfide	0.623	U	0.623	U	2.74		
Carbon tetrachloride	1.26	U	1.26	U	1.26	U	
Chlorobenzene	0.921	U	0.921	U	0.921	U	
Chloroethane	0.528	U	0.528	U	0.528	U	
Chloroform	17.2		12.8		2.62		
Chloromethane	0.413	U	0.413	U	0.413	U	
cis-1,2-Dichloroethene	0.793	U	0.793	U	0.793	U	
cis-1,3-Dichloropropene	0.908	U	0.908	U	0.908	U	
Cyclohexane	0.688	U	0.688	U	0.688	U	
Dibromochloromethane	1.7	U	1.7	U	1.7	U	
Dichlorodifluoromethane	2.94		4.05		7.07		
Ethanol	9.42	U	19.4		11.9		
Ethyl Acetate	1.8	U	1.8	U	1.8	U	
Ethylbenzene	0.869	U	0.869	U	1.17		
Freon-113	1.53	U	1.53	U	1.53	U	
Freon-114	1.4	U	1.4	U	1.4	U	
Heptane	0.82	U	0.82	U	8.93		
Hexachlorobutadiene	2.13	U	2.13	U	2.13	U	
Isopropanol	2.44		11.3		5.19		
Methyl tert butyl ether	0.721	U	0.721	U	0.721	U	
Methylene chloride	1.74	U	1.74	U	1.74	U	
n-Hexane	0.705	U	0.705	U	11.9		
o-Xylene	0.869	U	0.869	U	0.973		
p/m-Xylene	1.74	U	2.4		3.11		
Styrene	0.852	U	0.852	U	0.852	U	
Tertiary butyl Alcohol	1.52	U	2.21		1.59		
Tetrachloroethene	2.33		1.97		2.1		
Tetrahydrofuran	1.47	U	2.06		1.47	U	
Toluene	0.912		2.17		3.55		
trans-1,2-Dichloroethene	0.793	U	0.793	U	0.793	U	
trans-1,3-Dichloropropene	0.908	U	0.908	U	0.908	U	
Trichloroethene	1.37		1.07	U	1.07	U	
Trichlorofluoromethane	2.03		1.92		2.89		
Vinyl bromide	0.874	U	0.874	U	0.874	U	
Vinyl chloride	0.511	U	0.511	U	0.511	U	

Detected concentrations  
 Relatively elevated concentrations

Notes: NA = not available  
 Result Qualifiers: J = approximate E = estimated B = detected in blank

**Table 10: VOCs in Soil Vapor**  
**GBTS File: 20-0213**

All data in $\mu\text{g}/\text{m}^3$ U= Not Detected $\geq$ value	Sample ID	SV-04		SV-05		SV-06	
	Sample Date	9/11/2020		9/11/2020		9/11/2020	
	Dilution Factor	1		1		1	
VOCs, TO-15	Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,1,1-Trichloroethane	1.09	U	1.09	U	1.09	U	
1,1,2,2-Tetrachloroethane	1.37	U	1.37	U	1.37	U	
1,1,2-Trichloroethane	1.09	U	1.09	U	1.09	U	
1,1-Dichloroethane	0.809	U	0.809	U	0.809	U	
1,1-Dichloroethene	0.793	U	0.793	U	0.793	U	
1,2,4-Trichlorobenzene	1.48	U	1.48	U	1.48	U	
1,2,4-Trimethylbenzene	2.12		14.6		1.11		
1,2-Dibromoethane	1.54	U	1.54	U	1.54	U	
1,2-Dichlorobenzene	1.2	U	1.2	U	1.2	U	
1,2-Dichloroethane	0.809	U	0.809	U	0.809	U	
1,2-Dichloropropane	0.924	U	0.924	U	0.924	U	
1,3,5-Trimethylbenzene	0.983	U	6.74		0.983	U	
1,3-Butadiene	0.442	U	0.442	U	0.442	U	
1,3-Dichlorobenzene	1.2	U	1.2	U	1.2	U	
1,4-Dichlorobenzene	1.2	U	1.2	U	1.2	U	
1,4-Dioxane	0.721	U	0.721	U	0.721	U	
2,2,4-Trimethylpentane	0.934	U	0.934	U	0.934	U	
2-Butanone	4.72		1.84		6.43		
2-Hexanone	0.82	U	0.82	U	0.934		
3-Chloropropene	0.626	U	0.626	U	0.626	U	
4-Ethyltoluene	0.983	U	3.97		0.983	U	
4-Methyl-2-pentanone	2.81		2.05	U	4.22		
Acetone	37.1		70.3		14.3		
Benzene	0.639	U	0.639	U	0.639	U	
Benzyl chloride	1.04	U	1.04	U	1.04	U	
Bromodichloromethane	1.34	U	1.34	U	1.84		
Bromoform	2.07	U	2.07	U	2.07	U	
Bromomethane	0.777	U	0.777	U	0.777	U	
Carbon disulfide	1.14		0.623	U	1.75		
Carbon tetrachloride	1.26	U	1.26	U	1.26	U	
Chlorobenzene	0.921	U	0.921	U	0.921	U	
Chloroethane	0.528	U	0.528	U	0.528	U	
Chloroform	1.62		0.977	U	13.7		
Chloromethane	0.413	U	0.413	U	0.413	U	
cis-1,2-Dichloroethene	0.793	U	0.793	U	0.793	U	
cis-1,3-Dichloropropene	0.908	U	0.908	U	0.908	U	
Cyclohexane	0.688	U	0.688	U	0.826		
Dibromochloromethane	1.7	U	1.7	U	1.7	U	
Dichlorodifluoromethane	3.85		3.4		9.89		
Ethanol	21.5		11.5		35.8		
Ethyl Acetate	1.8	U	1.8	U	1.8	U	
Ethylbenzene	2.75		14.2		0.869	U	
Freon-113	1.53	U	1.53	U	3.83		
Freon-114	1.4	U	1.4	U	1.4	U	
Heptane	0.82	U	0.82	U	0.82	U	
Hexachlorobutadiene	2.13	U	2.13	U	2.13	U	
Isopropanol	5.24		3.83		8.36		
Methyl tert butyl ether	0.721	U	0.721	U	0.721	U	
Methylene chloride	1.74	U	1.82		1.74	U	
n-Hexane	0.705	U	0.705	U	0.705	U	
o-Xylene	1.1		14.9		0.869	U	
p/m-Xylene	3.23		49.1		2.17		
Styrene	1.22		166		1.18		
Tertiary butyl Alcohol	1.52	U	1.52	U	4.64		
Tetrachloroethene	2.92		12.1		6.15		
Tetrahydrofuran	1.47	U	1.93		1.47	U	
Toluene	2.07		14.1		2.02		
trans-1,2-Dichloroethene	0.793	U	0.793	U	0.793	U	
trans-1,3-Dichloropropene	0.908	U	0.908	U	0.908	U	
Trichloroethene	1.07	U	1.07	U	1.07	U	
Trichlorofluoromethane	1.75		1.78		3.25		
Vinyl bromide	0.874	U	0.874	U	0.874	U	
Vinyl chloride	0.511	U	0.511	U	0.511	U	

Detected concentrations  
 Relatively elevated concentrations

Notes: NA = not available  
 Result Qualifiers: J = approximate E = estimated B = detected in blank

## APPENDIX D

# Laboratory Reports



# Technical Report

prepared for:

**Gallagher Bassett - Poughkeepsie, NY**

22 IBM Road, Suite 101  
Poughkeepsie NY, 12601  
**Attention: Erick Salazar**

Report Date: 09/22/2020  
**Client Project ID: 20-0213**  
York Project (SDG) No.: 20I0612

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE  
[www.YORKLAB.com](http://www.YORKLAB.com)

STRATFORD, CT 06615  
(203) 325-1371

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

RICHMOND HILL, NY 11418  
[ClientServices@yorklab.com](mailto:ClientServices@yorklab.com)

Report Date: 09/22/2020  
Client Project ID: 20-0213  
York Project (SDG) No.: 20I0612

**Gallagher Bassett - Poughkeepsie, NY**  
22 IBM Road, Suite 101  
Poughkeepsie NY, 12601  
Attention: Erick Salazar

---

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on September 15, 2020 and listed below. The project was identified as your project: **20-0213**.

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

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

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

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

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

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
20I0612-01	GSB-03 0-5	Soil	09/10/2020	09/15/2020
20I0612-02	GSB-05 0-2	Soil	09/10/2020	09/15/2020
20I0612-03	GSB-06 0-2	Soil	09/10/2020	09/15/2020
20I0612-04	GSB-07 0-5	Soil	09/10/2020	09/15/2020
20I0612-05	GSB-08 0-2	Soil	09/10/2020	09/15/2020
20I0612-06	GSB-10 0-5	Soil	09/11/2020	09/15/2020
20I0612-07	GSB-12 0-5	Soil	09/11/2020	09/15/2020
20I0612-08	GSB-13 0-2	Soil	09/11/2020	09/15/2020
20I0612-09	GSB-15 0-5	Soil	09/11/2020	09/15/2020
20I0612-10	SV-02	Soil	09/11/2020	09/15/2020
20I0612-11	SV-03	Soil	09/11/2020	09/15/2020
20I0612-12	SV-04	Soil	09/11/2020	09/15/2020
20I0612-13	SV-05	Soil	09/11/2020	09/15/2020
20I0612-14	SV-06	Soil	09/11/2020	09/15/2020
20I0612-15	HB-01	Soil	09/11/2020	09/15/2020
20I0612-16	HB-02	Soil	09/11/2020	09/15/2020
20I0612-17	GSB-01 0-2	Soil	09/10/2020	09/15/2020
20I0612-18	GSB-02 0-2	Soil	09/10/2020	09/15/2020
20I0612-19	GSB-04 0-5	Soil	09/10/2020	09/15/2020
20I0612-20	GSB-09 2-3	Soil	09/10/2020	09/15/2020
20I0612-21	GSB-11 0-5	Soil	09/11/2020	09/15/2020
20I0612-22	GSB-14 0-2	Soil	09/11/2020	09/15/2020



<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
20I0612-23	GSB-16 0-5	Soil	09/11/2020	09/15/2020
20I0612-24	GSB-03 5	Soil	09/10/2020	09/15/2020
20I0612-25	GSB-05 1	Soil	09/10/2020	09/15/2020
20I0612-26	GSB-09 2.5	Soil	09/10/2020	09/15/2020
20I0612-27	GSB-12 4	Soil	09/11/2020	09/15/2020
20I0612-28	GSB-02 10-12	Soil	09/10/2020	09/15/2020
20I0612-29	GSB-02 11	Soil	09/10/2020	09/15/2020
20I0612-31	TB-20200911	Water	09/11/2020	09/15/2020

### **General Notes for York Project (SDG) No.: 20I0612**

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

**Approved By:**



Benjamin Gulizia  
Laboratory Director

**Date:** 09/22/2020





## Sample Information

**Client Sample ID:** GSB-03 0-5

**York Sample ID:** 20I0612-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
20I0612	20-0213	Soil	September 10, 2020 12:00 am	09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	89.1	178	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	89.1	178	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	89.1	178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	89.1	178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH



### Sample Information

**Client Sample ID:** GSB-03 0-5

**York Sample ID:** 20I0612-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	89.1	178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	89.1	178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	89.1	178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	89.1	178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
83-32-9	Acenaphthene	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
208-96-8	<b>Acenaphthylene</b>	<b>126</b>		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
98-86-2	Acetophenone	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
62-53-3	Aniline	ND		ug/kg dry	178	357	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
120-12-7	<b>Anthracene</b>	<b>94.0</b>		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
1912-24-9	Atrazine	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
92-87-5	Benzidine	ND		ug/kg dry	178	357	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
56-55-3	<b>Benzo(a)anthracene</b>	<b>232</b>		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
50-32-8	<b>Benzo(a)pyrene</b>	<b>281</b>		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
205-99-2	<b>Benzo(b)fluoranthene</b>	<b>241</b>		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
191-24-2	<b>Benzo(g,h,i)perylene</b>	<b>199</b>		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
207-08-9	<b>Benzo(k)fluoranthene</b>	<b>243</b>		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
65-85-0	Benzoic acid	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH



### Sample Information

**Client Sample ID:** GSB-03 0-5

**York Sample ID:** 20I0612-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-51-6	Benzyl alcohol	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
105-60-2	Caprolactam	ND		ug/kg dry	89.1	178	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
86-74-8	Carbazole	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
218-01-9	<b>Chrysene</b>	<b>242</b>		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
53-70-3	<b>Dibenzo(a,h)anthracene</b>	<b>63.4</b>	J	ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
122-39-4	* Diphenylamine	ND		ug/kg dry	89.1	178	2	EPA 8270D Certifications:	09/21/2020 07:17	09/21/2020 21:45	KH
206-44-0	<b>Fluoranthene</b>	<b>326</b>		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
86-73-7	Fluorene	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
193-39-5	<b>Indeno(1,2,3-cd)pyrene</b>	<b>209</b>		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH



### Sample Information

**Client Sample ID:** GSB-03 0-5

**York Sample ID:** 20I0612-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-59-1	Isophorone	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
91-20-3	Naphthalene	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
85-01-8	<b>Phenanthrene</b>	<b>73.4</b>	J	ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
108-95-2	Phenol	ND		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH
129-00-0	<b>Pyrene</b>	<b>370</b>		ug/kg dry	44.7	89.1	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 21:45	KH

**Surrogate Recoveries**

**Result**

**Acceptance Range**

367-12-4	Surrogate: SURR: 2-Fluorophenol	53.2 %		20-108
4165-62-2	Surrogate: SURR: Phenol-d5	58.6 %		23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	57.6 %		22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	58.5 %		21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	73.4 %		19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	71.2 %		24-116

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:33	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:33	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:33	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:33	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:33	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 07:33	CM





### Sample Information

**Client Sample ID:** GSB-03 0-5

**York Sample ID:** 20I0612-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-85-7	beta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:33	CM
57-74-9	Chlordane, total	ND		mg/kg dry	0.0353	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:33	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:33	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:33	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:33	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	09/21/2020 07:23	09/22/2020 07:33	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:33	CM
72-20-8	Endrin	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:33	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:33	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:33	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:33	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 07:33	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:33	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:33	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00882	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:33	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.0892	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:33	CM
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>						
2051-24-3	Surrogate: Decachlorobiphenyl	52.6 %		30-150						
877-09-8	Surrogate: Tetrachloro-m-xylene	34.6 %		30-150						

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:03	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:03	BJ



### Sample Information

**Client Sample ID:** GSB-03 0-5

**York Sample ID:** 20I0612-01

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:03	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:03	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:03	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:03	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:03	BJ
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:03	BJ
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:03	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications:	09/21/2020 07:23	09/22/2020 05:03	BJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	44.0 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	41.0 %	30-140							

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	6940		mg/kg dry	5.36	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:06	KML
7440-36-0	Antimony	ND		mg/kg dry	2.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:06	KML
7440-38-2	Arsenic	9.05		mg/kg dry	1.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:06	KML
7440-39-3	Barium	43.2		mg/kg dry	2.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:06	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.054	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:06	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.322	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:06	KML
7440-70-2	Calcium	30600		mg/kg dry	5.36	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:06	KML
7440-47-3	Chromium	8.84		mg/kg dry	0.536	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:06	KML
7440-48-4	Cobalt	4.32		mg/kg dry	0.429	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:06	KML
7440-50-8	Copper	17.6		mg/kg dry	2.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:06	KML



### Sample Information

**Client Sample ID:** GSB-03 0-5

**York Sample ID:** 20I0612-01

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	<b>Iron</b>	<b>13100</b>		mg/kg dry	26.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:06	KML
7439-92-1	<b>Lead</b>	<b>92.1</b>	B	mg/kg dry	0.536	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:06	KML
7439-95-4	<b>Magnesium</b>	<b>8080</b>		mg/kg dry	5.36	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:06	KML
7439-96-5	<b>Manganese</b>	<b>631</b>		mg/kg dry	0.536	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:06	KML
7440-02-0	<b>Nickel</b>	<b>12.5</b>		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:06	KML
7440-09-7	<b>Potassium</b>	<b>877</b>	B	mg/kg dry	5.36	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:06	KML
7782-49-2	Selenium	ND		mg/kg dry	2.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:06	KML
7440-22-4	Silver	ND		mg/kg dry	0.536	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:06	KML
7440-23-5	<b>Sodium</b>	<b>312</b>	B	mg/kg dry	53.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:06	KML
7440-28-0	Thallium	ND		mg/kg dry	2.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:06	KML
7440-62-2	<b>Vanadium</b>	<b>19.9</b>		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:06	KML
7440-66-6	<b>Zinc</b>	<b>82.0</b>		mg/kg dry	2.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:06	KML

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	<b>Mercury</b>	<b>0.532</b>		mg/kg dry	0.0322	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	09/16/2020 10:37	09/16/2020 14:35	SY

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	<b>* % Solids</b>	<b>93.3</b>		%	0.100	1	SM 2540G Certifications: CTDOH	09/16/2020 08:11	09/16/2020 16:40	SK



### Sample Information

**Client Sample ID:** GSB-05 0-2

**York Sample ID:** 20I0612-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	<b>1,1-Biphenyl</b>	<b>105</b>		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	83.9	168	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	83.9	168	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	83.9	168	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
91-57-6	<b>2-Methylnaphthalene</b>	<b>2000</b>		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	83.9	168	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH



### Sample Information

**Client Sample ID:** GSB-05 0-2

**York Sample ID:** 20I0612-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/kg dry	83.9	168	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	83.9	168	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	83.9	168	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	83.9	168	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
83-32-9	<b>Acenaphthene</b>	<b>1450</b>		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
208-96-8	<b>Acenaphthylene</b>	<b>2570</b>		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
98-86-2	Acetophenone	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
62-53-3	Aniline	ND		ug/kg dry	168	336	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
120-12-7	<b>Anthracene</b>	<b>3720</b>		ug/kg dry	421	839	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 10:13	KH
1912-24-9	Atrazine	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
92-87-5	Benzidine	ND		ug/kg dry	168	336	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
56-55-3	<b>Benzo(a)anthracene</b>	<b>5960</b>		ug/kg dry	421	839	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 10:13	KH
50-32-8	<b>Benzo(a)pyrene</b>	<b>5150</b>		ug/kg dry	421	839	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 10:13	KH
205-99-2	<b>Benzo(b)fluoranthene</b>	<b>3240</b>		ug/kg dry	421	839	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 10:13	KH
191-24-2	<b>Benzo(g,h,i)perylene</b>	<b>3010</b>		ug/kg dry	421	839	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 10:13	KH
207-08-9	<b>Benzo(k)fluoranthene</b>	<b>3620</b>		ug/kg dry	421	839	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 10:13	KH
65-85-0	Benzoic acid	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH





### Sample Information

**Client Sample ID:** GSB-05 0-2

**York Sample ID:** 20I0612-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
105-60-2	Caprolactam	ND		ug/kg dry	83.9	168	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
86-74-8	<b>Carbazole</b>	<b>250</b>		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
218-01-9	<b>Chrysene</b>	<b>6670</b>		ug/kg dry	421	839	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 10:13	KH
53-70-3	<b>Dibenzo(a,h)anthracene</b>	<b>943</b>		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
132-64-9	<b>Dibenzofuran</b>	<b>592</b>		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
122-39-4	* Diphenylamine	ND		ug/kg dry	83.9	168	2	EPA 8270D Certifications:	09/21/2020 07:17	09/21/2020 22:14	KH
206-44-0	<b>Fluoranthene</b>	<b>10200</b>		ug/kg dry	421	839	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 10:13	KH
86-73-7	<b>Fluorene</b>	<b>3330</b>		ug/kg dry	421	839	20	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 10:13	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
193-39-5	<b>Indeno(1,2,3-cd)pyrene</b>	<b>2720</b>		ug/kg dry	421	839	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 10:13	KH
78-59-1	Isophorone	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH



### Sample Information

**Client Sample ID:** GSB-05 0-2

**York Sample ID:** 20I0612-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	783		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
85-01-8	Phenanthrene	15200		ug/kg dry	421	839	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 10:13	KH
108-95-2	Phenol	ND		ug/kg dry	42.1	83.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:14	KH
129-00-0	Pyrene	14800		ug/kg dry	421	839	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 10:13	KH
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
367-12-4	Surrogate: SURR: 2-Fluorophenol	60.1 %	20-108								
4165-62-2	Surrogate: SURR: Phenol-d5	61.9 %	23-114								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	61.6 %	22-108								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	65.3 %	21-113								
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	80.7 %	19-110								
1718-51-0	Surrogate: SURR: Terphenyl-d14	74.9 %	24-116								

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:51	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:51	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:51	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:51	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:51	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 07:51	CM



### Sample Information

**Client Sample ID:** GSB-05 0-2

**York Sample ID:** 20I0612-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-85-7	beta-BHC	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:51	CM
57-74-9	Chlordane, total	ND		mg/kg dry	0.0335	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:51	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:51	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:51	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:51	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	09/21/2020 07:23	09/22/2020 07:51	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:51	CM
72-20-8	Endrin	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:51	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:51	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:51	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:51	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 07:51	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:51	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00168	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:51	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00839	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:51	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.0849	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:51	CM
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
2051-24-3	Surrogate: Decachlorobiphenyl	78.3 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	86.1 %	30-150							

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0169	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:16	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0169	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:16	BJ



### Sample Information

**Client Sample ID:** GSB-05 0-2

**York Sample ID:** 20I0612-02

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0169	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:16	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0169	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:16	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0169	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:16	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0169	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:16	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0169	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:16	BJ
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0169	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:16	BJ
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0169	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:16	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0169	1	EPA 8082A Certifications:	09/21/2020 07:23	09/22/2020 05:16	BJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	52.0 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	57.0 %	30-140							

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	9450		mg/kg dry	5.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:13	KML
7440-36-0	Antimony	ND		mg/kg dry	2.55	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:13	KML
7440-38-2	Arsenic	4.46		mg/kg dry	1.53	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:13	KML
7440-39-3	Barium	36.3		mg/kg dry	2.55	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:13	KML
7440-41-7	Beryllium	0.185		mg/kg dry	0.051	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:13	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.306	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:13	KML
7440-70-2	Calcium	8660		mg/kg dry	5.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:13	KML
7440-47-3	Chromium	9.88		mg/kg dry	0.510	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:13	KML
7440-48-4	Cobalt	5.56		mg/kg dry	0.408	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:13	KML
7440-50-8	Copper	18.3		mg/kg dry	2.04	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:13	KML



**Sample Information**

**Client Sample ID:** GSB-05 0-2

**York Sample ID:** 20I0612-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	<b>Iron</b>	<b>18700</b>		mg/kg dry	25.5	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:13	KML
7439-92-1	<b>Lead</b>	<b>49.0</b>	B	mg/kg dry	0.510	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:13	KML
7439-95-4	<b>Magnesium</b>	<b>5160</b>		mg/kg dry	5.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:13	KML
7439-96-5	<b>Manganese</b>	<b>498</b>		mg/kg dry	0.510	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:13	KML
7440-02-0	<b>Nickel</b>	<b>15.0</b>		mg/kg dry	1.02	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:13	KML
7440-09-7	<b>Potassium</b>	<b>1100</b>	B	mg/kg dry	5.10	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:13	KML
7782-49-2	Selenium	ND		mg/kg dry	2.55	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:13	KML
7440-22-4	Silver	ND		mg/kg dry	0.510	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:13	KML
7440-23-5	<b>Sodium</b>	<b>351</b>	B	mg/kg dry	51.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:13	KML
7440-28-0	Thallium	ND		mg/kg dry	2.55	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:13	KML
7440-62-2	<b>Vanadium</b>	<b>9.33</b>		mg/kg dry	1.02	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:13	KML
7440-66-6	<b>Zinc</b>	<b>48.8</b>		mg/kg dry	2.55	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:13	KML

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	<b>Mercury</b>	<b>0.742</b>		mg/kg dry	0.0306	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	09/16/2020 10:37	09/16/2020 14:44	SY

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	<b>* % Solids</b>	<b>98.0</b>		%	0.100	1	SM 2540G Certifications: CTDOH	09/16/2020 08:11	09/16/2020 16:40	SK



## Sample Information

**Client Sample ID:** GSB-06 0-2

**York Sample ID:** 20I0612-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	<b>1,1-Biphenyl</b>	<b>64.1</b>	J	ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	82.7	165	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	82.7	165	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	82.7	165	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
91-57-6	<b>2-Methylnaphthalene</b>	<b>311</b>		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	82.7	165	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH





### Sample Information

**Client Sample ID:** GSB-06 0-2

**York Sample ID:** 20I0612-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/kg dry	82.7	165	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	82.7	165	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	82.7	165	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	82.7	165	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
83-32-9	<b>Acenaphthene</b>	<b>131</b>		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
208-96-8	<b>Acenaphthylene</b>	<b>2470</b>		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
98-86-2	Acetophenone	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
62-53-3	Aniline	ND		ug/kg dry	166	331	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
120-12-7	<b>Anthracene</b>	<b>1990</b>		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
1912-24-9	Atrazine	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
92-87-5	Benzidine	ND		ug/kg dry	166	331	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
56-55-3	<b>Benzo(a)anthracene</b>	<b>2960</b>		ug/kg dry	207	413	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 10:43	KH
50-32-8	<b>Benzo(a)pyrene</b>	<b>4050</b>		ug/kg dry	207	413	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 10:43	KH
205-99-2	<b>Benzo(b)fluoranthene</b>	<b>3020</b>		ug/kg dry	207	413	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 10:43	KH
191-24-2	<b>Benzo(g,h,i)perylene</b>	<b>2530</b>		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
207-08-9	<b>Benzo(k)fluoranthene</b>	<b>2610</b>		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
65-85-0	Benzoic acid	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH



## Sample Information

**Client Sample ID:** GSB-06 0-2

**York Sample ID:** 20I0612-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
105-60-2	Caprolactam	ND		ug/kg dry	82.7	165	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
86-74-8	<b>Carbazole</b>	<b>185</b>		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
218-01-9	<b>Chrysene</b>	<b>3160</b>		ug/kg dry	207	413	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 10:43	KH
53-70-3	<b>Dibenzo(a,h)anthracene</b>	<b>964</b>		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
132-64-9	<b>Dibenzofuran</b>	<b>70.0</b>	J	ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
122-39-4	* Diphenylamine	ND		ug/kg dry	82.7	165	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
206-44-0	<b>Fluoranthene</b>	<b>3090</b>		ug/kg dry	207	413	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 10:43	KH
86-73-7	<b>Fluorene</b>	<b>434</b>		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
193-39-5	<b>Indeno(1,2,3-cd)pyrene</b>	<b>2510</b>		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
78-59-1	Isophorone	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH



### Sample Information

**Client Sample ID:** GSB-06 0-2

**York Sample ID:** 20I0612-03

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	512		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
85-01-8	Phenanthrene	1460		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
108-95-2	Phenol	ND		ug/kg dry	41.4	82.7	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 22:43	KH
129-00-0	Pyrene	4520		ug/kg dry	207	413	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 10:43	KH
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
367-12-4	Surrogate: SURR: 2-Fluorophenol	59.9 %	20-108								
4165-62-2	Surrogate: SURR: Phenol-d5	63.5 %	23-114								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	57.4 %	22-108								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	64.0 %	21-113								
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	78.6 %	19-110								
1718-51-0	Surrogate: SURR: Terphenyl-d14	76.7 %	24-116								

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:09	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:09	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:09	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:09	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:09	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 08:09	CM



### Sample Information

**Client Sample ID:** GSB-06 0-2

**York Sample ID:** 20I0612-03

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-85-7	beta-BHC	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:09	CM
57-74-9	Chlordane, total	ND		mg/kg dry	0.0329	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:09	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:09	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:09	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:09	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	09/21/2020 07:23	09/22/2020 08:09	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:09	CM
72-20-8	Endrin	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:09	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:09	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:09	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:09	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 08:09	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:09	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:09	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00823	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:09	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.0833	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:09	CM
	<b>Surrogate Recoveries</b>	<b>Result</b>					<b>Acceptance Range</b>			
2051-24-3	Surrogate: Decachlorobiphenyl	68.8 %					30-150			
877-09-8	Surrogate: Tetrachloro-m-xylene	45.2 %					30-150			

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0166	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:30	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0166	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:30	BJ



### Sample Information

**Client Sample ID:** GSB-06 0-2

**York Sample ID:** 20I0612-03

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0166	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:30	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0166	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:30	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0166	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:30	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0166	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:30	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0166	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:30	BJ
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0166	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:30	BJ
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0166	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:30	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0166	1	EPA 8082A Certifications:	09/21/2020 07:23	09/22/2020 05:30	BJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	48.5 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	47.5 %	30-140							

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	7050		mg/kg dry	5.02	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:20	KML
7440-36-0	Antimony	ND		mg/kg dry	2.51	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:20	KML
7440-38-2	Arsenic	5.35		mg/kg dry	1.51	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:20	KML
7440-39-3	Barium	35.0		mg/kg dry	2.51	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:20	KML
7440-41-7	Beryllium	0.129		mg/kg dry	0.050	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:20	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.301	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:20	KML
7440-70-2	Calcium	40800		mg/kg dry	5.02	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:20	KML
7440-47-3	Chromium	7.77		mg/kg dry	0.502	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:20	KML
7440-48-4	Cobalt	5.54		mg/kg dry	0.402	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:20	KML
7440-50-8	Copper	30.3		mg/kg dry	2.01	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:20	KML



**Sample Information**

**Client Sample ID:** GSB-06 0-2

**York Sample ID:** 20I0612-03

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	<b>Iron</b>	<b>14900</b>		mg/kg dry	25.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:20	KML
7439-92-1	<b>Lead</b>	<b>109</b>	B	mg/kg dry	0.502	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:20	KML
7439-95-4	<b>Magnesium</b>	<b>25600</b>		mg/kg dry	5.02	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:20	KML
7439-96-5	<b>Manganese</b>	<b>343</b>		mg/kg dry	0.502	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:20	KML
7440-02-0	<b>Nickel</b>	<b>12.4</b>		mg/kg dry	1.00	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:20	KML
7440-09-7	<b>Potassium</b>	<b>1060</b>	B	mg/kg dry	5.02	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:20	KML
7782-49-2	Selenium	ND		mg/kg dry	2.51	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:20	KML
7440-22-4	Silver	ND		mg/kg dry	0.502	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:20	KML
7440-23-5	<b>Sodium</b>	<b>400</b>	B	mg/kg dry	50.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:20	KML
7440-28-0	Thallium	ND		mg/kg dry	2.51	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:20	KML
7440-62-2	<b>Vanadium</b>	<b>11.7</b>		mg/kg dry	1.00	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:20	KML
7440-66-6	<b>Zinc</b>	<b>52.0</b>		mg/kg dry	2.51	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:20	KML

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	<b>Mercury</b>	<b>0.389</b>		mg/kg dry	0.0301	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	09/16/2020 10:37	09/16/2020 14:53	SY

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	<b>* % Solids</b>	<b>99.6</b>		%	0.100	1	SM 2540G Certifications: CTDOH	09/16/2020 08:11	09/16/2020 16:40	SK





### Sample Information

**Client Sample ID:** GSB-07 0-5

**York Sample ID:** 20I0612-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	89.8	179	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	89.8	179	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	89.8	179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
91-57-6	<b>2-Methylnaphthalene</b>	<b>50.2</b>	J	ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	89.8	179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH



### Sample Information

**Client Sample ID:** GSB-07 0-5

**York Sample ID:** 20I0612-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/kg dry	89.8	179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	89.8	179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	89.8	179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	89.8	179	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
83-32-9	<b>Acenaphthene</b>	<b>276</b>		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
208-96-8	<b>Acenaphthylene</b>	<b>2300</b>		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
98-86-2	Acetophenone	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
62-53-3	Aniline	ND		ug/kg dry	180	359	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
120-12-7	<b>Anthracene</b>	<b>1980</b>		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
1912-24-9	Atrazine	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
92-87-5	Benzidine	ND		ug/kg dry	180	359	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
56-55-3	<b>Benzo(a)anthracene</b>	<b>3580</b>		ug/kg dry	225	449	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 11:12	KH
50-32-8	<b>Benzo(a)pyrene</b>	<b>3580</b>		ug/kg dry	225	449	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 11:12	KH
205-99-2	<b>Benzo(b)fluoranthene</b>	<b>2100</b>		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
191-24-2	<b>Benzo(g,h,i)perylene</b>	<b>1850</b>		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
207-08-9	<b>Benzo(k)fluoranthene</b>	<b>2110</b>		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
65-85-0	Benzoic acid	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH



### Sample Information

**Client Sample ID:** GSB-07 0-5

**York Sample ID:** 20I0612-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
105-60-2	Caprolactam	ND		ug/kg dry	89.8	179	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
86-74-8	Carbazole	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
218-01-9	<b>Chrysene</b>	<b>3850</b>		ug/kg dry	225	449	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 11:12	KH
53-70-3	<b>Dibenzo(a,h)anthracene</b>	<b>793</b>		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
132-64-9	<b>Dibenzofuran</b>	<b>45.9</b>	J	ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
122-39-4	* Diphenylamine	ND		ug/kg dry	89.8	179	2	EPA 8270D Certifications:	09/21/2020 07:17	09/21/2020 23:13	KH
206-44-0	<b>Fluoranthene</b>	<b>3880</b>		ug/kg dry	225	449	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 11:12	KH
86-73-7	<b>Fluorene</b>	<b>325</b>		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
193-39-5	<b>Indeno(1,2,3-cd)pyrene</b>	<b>1760</b>		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
78-59-1	Isophorone	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH



### Sample Information

**Client Sample ID:** GSB-07 0-5

**York Sample ID:** 20I0612-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	57.4	J	ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
85-01-8	Phenanthrene	2000		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
108-95-2	Phenol	ND		ug/kg dry	45.0	89.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:13	KH
129-00-0	Pyrene	7020		ug/kg dry	225	449	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 11:12	KH
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
367-12-4	Surrogate: SURR: 2-Fluorophenol	51.9 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	54.8 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	51.1 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	54.8 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	68.8 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	62.9 %			24-116						

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 08:27	CM



### Sample Information

**Client Sample ID:** GSB-07 0-5

**York Sample ID:** 20I0612-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-85-7	beta-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	CM
57-74-9	Chlordane, total	ND		mg/kg dry	0.0358	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	09/21/2020 07:23	09/22/2020 08:27	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	CM
72-20-8	Endrin	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 08:27	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00179	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00894	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.0905	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	CM
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>						
2051-24-3	Surrogate: Decachlorobiphenyl	82.8 %		30-150						
877-09-8	Surrogate: Tetrachloro-m-xylene	75.3 %		30-150						

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:44	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:44	BJ



### Sample Information

**Client Sample ID:** GSB-07 0-5

**York Sample ID:** 20I0612-04

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:44	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:44	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:44	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:44	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:44	BJ
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:44	BJ
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:44	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications:	09/21/2020 07:23	09/22/2020 05:44	BJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	60.5 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	59.5 %	30-140							

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	11600		mg/kg dry	5.47	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:26	KML
7440-36-0	Antimony	ND		mg/kg dry	2.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:26	KML
7440-38-2	Arsenic	4.84		mg/kg dry	1.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:26	KML
7440-39-3	Barium	70.5		mg/kg dry	2.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:26	KML
7440-41-7	Beryllium	0.221		mg/kg dry	0.055	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:26	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.328	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:26	KML
7440-70-2	Calcium	19800		mg/kg dry	5.47	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:26	KML
7440-47-3	Chromium	11.1		mg/kg dry	0.547	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:26	KML
7440-48-4	Cobalt	7.08		mg/kg dry	0.438	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:26	KML
7440-50-8	Copper	32.7		mg/kg dry	2.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:26	KML





**Sample Information**

**Client Sample ID:** GSB-07 0-5

**York Sample ID:** 20I0612-04

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	<b>Iron</b>	<b>19700</b>		mg/kg dry	27.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:26	KML
7439-92-1	<b>Lead</b>	<b>829</b>	B	mg/kg dry	0.547	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:26	KML
7439-95-4	<b>Magnesium</b>	<b>3830</b>		mg/kg dry	5.47	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:26	KML
7439-96-5	<b>Manganese</b>	<b>569</b>		mg/kg dry	0.547	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:26	KML
7440-02-0	<b>Nickel</b>	<b>16.6</b>		mg/kg dry	1.09	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:26	KML
7440-09-7	<b>Potassium</b>	<b>1150</b>	B	mg/kg dry	5.47	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:26	KML
7782-49-2	Selenium	ND		mg/kg dry	2.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:26	KML
7440-22-4	Silver	ND		mg/kg dry	0.547	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:26	KML
7440-23-5	<b>Sodium</b>	<b>664</b>	B	mg/kg dry	54.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:26	KML
7440-28-0	Thallium	ND		mg/kg dry	2.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:26	KML
7440-62-2	<b>Vanadium</b>	<b>13.9</b>		mg/kg dry	1.09	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:26	KML
7440-66-6	<b>Zinc</b>	<b>199</b>		mg/kg dry	2.74	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:26	KML

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	<b>Mercury</b>	<b>0.478</b>		mg/kg dry	0.0328	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	09/16/2020 10:37	09/16/2020 15:01	SY

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	<b>* % Solids</b>	<b>91.4</b>		%	0.100	1	SM 2540G Certifications: CTDOH	09/16/2020 08:11	09/16/2020 16:40	SK



### Sample Information

**Client Sample ID:** GSB-08 0-2

**York Sample ID:** 20I0612-05

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	86.0	172	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	86.0	172	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	86.0	172	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	86.0	172	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH



### Sample Information

**Client Sample ID:** GSB-08 0-2

**York Sample ID:** 20I0612-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/kg dry	86.0	172	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	86.0	172	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	86.0	172	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	86.0	172	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
83-32-9	Acenaphthene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
208-96-8	<b>Acenaphthylene</b>	<b>104</b>		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
98-86-2	Acetophenone	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
62-53-3	Aniline	ND		ug/kg dry	172	345	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
120-12-7	<b>Anthracene</b>	<b>50.9</b>	J	ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
1912-24-9	Atrazine	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
92-87-5	Benzidine	ND		ug/kg dry	172	345	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
56-55-3	<b>Benzo(a)anthracene</b>	<b>105</b>		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
50-32-8	<b>Benzo(a)pyrene</b>	<b>145</b>		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
205-99-2	<b>Benzo(b)fluoranthene</b>	<b>116</b>		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
191-24-2	<b>Benzo(g,h,i)perylene</b>	<b>101</b>		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
207-08-9	<b>Benzo(k)fluoranthene</b>	<b>107</b>		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
65-85-0	Benzoic acid	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH



### Sample Information

**Client Sample ID:** GSB-08 0-2

**York Sample ID:** 20I0612-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
105-60-2	Caprolactam	ND		ug/kg dry	86.0	172	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
86-74-8	Carbazole	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
218-01-9	<b>Chrysene</b>	<b>136</b>		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
122-39-4	* Diphenylamine	ND		ug/kg dry	86.0	172	2	EPA 8270D Certifications:	09/21/2020 07:17	09/21/2020 23:42	KH
206-44-0	<b>Fluoranthene</b>	<b>142</b>		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
86-73-7	Fluorene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
193-39-5	<b>Indeno(1,2,3-cd)pyrene</b>	<b>105</b>		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
78-59-1	Isophorone	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH



### Sample Information

**Client Sample ID:** GSB-08 0-2

**York Sample ID:** 20I0612-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
85-01-8	<b>Phenanthrene</b>	<b>48.8</b>	J	ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
108-95-2	Phenol	ND		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
129-00-0	<b>Pyrene</b>	<b>208</b>		ug/kg dry	43.1	86.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/21/2020 23:42	KH
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
367-12-4	Surrogate: SURR: 2-Fluorophenol	58.0 %	20-108								
4165-62-2	Surrogate: SURR: Phenol-d5	62.4 %	23-114								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	57.6 %	22-108								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	61.3 %	21-113								
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	80.5 %	19-110								
1718-51-0	Surrogate: SURR: Terphenyl-d14	72.7 %	24-116								

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:45	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:45	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:45	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:45	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:45	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 08:45	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:45	CM



### Sample Information

**Client Sample ID:** GSB-08 0-2

**York Sample ID:** 20I0612-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	Chlordane, total	ND		mg/kg dry	0.0339	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:45	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:45	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:45	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:45	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	09/21/2020 07:23	09/22/2020 08:45	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:45	CM
72-20-8	Endrin	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:45	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:45	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:45	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:45	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 08:45	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:45	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00170	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:45	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00848	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:45	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.0858	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:45	CM
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>						
2051-24-3	Surrogate: Decachlorobiphenyl	64.2 %		30-150						
877-09-8	Surrogate: Tetrachloro-m-xylene	47.0 %		30-150						

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:57	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:57	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:57	BJ





### Sample Information

**Client Sample ID:** GSB-08 0-2

**York Sample ID:** 20I0612-05

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:57	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:57	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:57	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:57	BJ
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:57	BJ
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 05:57	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0171	1	EPA 8082A Certifications:	09/21/2020 07:23	09/22/2020 05:57	BJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	42.5 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	43.0 %	30-140							

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	<b>Aluminum</b>	<b>12000</b>		mg/kg dry	5.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:32	KML
7440-36-0	Antimony	ND		mg/kg dry	2.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:32	KML
7440-38-2	<b>Arsenic</b>	<b>6.20</b>		mg/kg dry	1.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:32	KML
7440-39-3	<b>Barium</b>	<b>62.9</b>		mg/kg dry	2.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:32	KML
7440-41-7	<b>Beryllium</b>	<b>0.243</b>		mg/kg dry	0.052	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:32	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.312	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:32	KML
7440-70-2	<b>Calcium</b>	<b>14600</b>		mg/kg dry	5.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:32	KML
7440-47-3	<b>Chromium</b>	<b>12.6</b>		mg/kg dry	0.519	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:32	KML
7440-48-4	<b>Cobalt</b>	<b>7.31</b>		mg/kg dry	0.415	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:32	KML
7440-50-8	<b>Copper</b>	<b>35.5</b>		mg/kg dry	2.08	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:32	KML
7439-89-6	<b>Iron</b>	<b>22300</b>		mg/kg dry	26.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:32	KML



### Sample Information

**Client Sample ID:** GSB-08 0-2

**York Sample ID:** 20I0612-05

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	95.5	B	mg/kg dry	0.519	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:32	KML
7439-95-4	Magnesium	8090		mg/kg dry	5.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:32	KML
7439-96-5	Manganese	511		mg/kg dry	0.519	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:32	KML
7440-02-0	Nickel	20.8		mg/kg dry	1.04	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:32	KML
7440-09-7	Potassium	1160	B	mg/kg dry	5.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:32	KML
7782-49-2	Selenium	ND		mg/kg dry	2.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:32	KML
7440-22-4	Silver	ND		mg/kg dry	0.519	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:32	KML
7440-23-5	Sodium	234	B	mg/kg dry	51.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:32	KML
7440-28-0	Thallium	ND		mg/kg dry	2.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:32	KML
7440-62-2	Vanadium	16.3		mg/kg dry	1.04	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:32	KML
7440-66-6	Zinc	193		mg/kg dry	2.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:32	KML

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.271		mg/kg dry	0.0312	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	09/16/2020 14:32	09/16/2020 15:28	SY

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	96.3		%	0.100	1	SM 2540G Certifications: CTDOH	09/16/2020 08:11	09/16/2020 16:40	SK



### Sample Information

**Client Sample ID:** GSB-10 0-5

**York Sample ID:** 20I0612-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	90.4	181	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	90.4	181	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	90.4	181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	90.4	181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH



### Sample Information

**Client Sample ID:** GSB-10 0-5

**York Sample ID:** 20I0612-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/kg dry	90.4	181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	90.4	181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	90.4	181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	90.4	181	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
83-32-9	Acenaphthene	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
208-96-8	<b>Acenaphthylene</b>	<b>258</b>		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
98-86-2	Acetophenone	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
62-53-3	Aniline	ND		ug/kg dry	181	362	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
120-12-7	<b>Anthracene</b>	<b>120</b>		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
1912-24-9	Atrazine	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
92-87-5	Benzidine	ND		ug/kg dry	181	362	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
56-55-3	<b>Benzo(a)anthracene</b>	<b>215</b>		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
50-32-8	<b>Benzo(a)pyrene</b>	<b>210</b>		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
205-99-2	<b>Benzo(b)fluoranthene</b>	<b>171</b>		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
191-24-2	<b>Benzo(g,h,i)perylene</b>	<b>173</b>		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
207-08-9	<b>Benzo(k)fluoranthene</b>	<b>163</b>		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
65-85-0	Benzoic acid	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH



### Sample Information

**Client Sample ID:** GSB-10 0-5

**York Sample ID:** 20I0612-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
105-60-2	Caprolactam	ND		ug/kg dry	90.4	181	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
86-74-8	Carbazole	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
218-01-9	<b>Chrysene</b>	<b>220</b>		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
53-70-3	<b>Dibenzo(a,h)anthracene</b>	<b>45.5</b>	J	ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
122-39-4	* Diphenylamine	ND		ug/kg dry	90.4	181	2	EPA 8270D Certifications:	09/21/2020 07:17	09/22/2020 00:11	KH
206-44-0	<b>Fluoranthene</b>	<b>225</b>		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
86-73-7	Fluorene	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
193-39-5	<b>Indeno(1,2,3-cd)pyrene</b>	<b>147</b>		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
78-59-1	Isophorone	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH



### Sample Information

**Client Sample ID:** GSB-10 0-5

**York Sample ID:** 20I0612-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
85-01-8	<b>Phenanthrene</b>	<b>99.7</b>		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
108-95-2	Phenol	ND		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
129-00-0	<b>Pyrene</b>	<b>383</b>		ug/kg dry	45.3	90.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:11	KH
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
367-12-4	Surrogate: SURR: 2-Fluorophenol	54.5 %	20-108								
4165-62-2	Surrogate: SURR: Phenol-d5	57.0 %	23-114								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	51.5 %	22-108								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	60.2 %	21-113								
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	69.5 %	19-110								
1718-51-0	Surrogate: SURR: Terphenyl-d14	71.0 %	24-116								

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:03	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:03	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:03	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:03	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:03	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 09:03	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:03	CM





### Sample Information

**Client Sample ID:** GSB-10 0-5

**York Sample ID:** 20I0612-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	Chlordane, total	ND		mg/kg dry	0.0355	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:03	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:03	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:03	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:03	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	09/21/2020 07:23	09/22/2020 09:03	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:03	CM
72-20-8	Endrin	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:03	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:03	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:03	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:03	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 09:03	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:03	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00178	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:03	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00888	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:03	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.0899	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:03	CM
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>						
2051-24-3	Surrogate: Decachlorobiphenyl	75.5 %		30-150						
877-09-8	Surrogate: Tetrachloro-m-xylene	57.8 %		30-150						

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:11	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:11	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:11	BJ



### Sample Information

**Client Sample ID:** GSB-10 0-5

**York Sample ID:** 20I0612-06

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 11, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:11	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:11	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:11	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:11	BJ
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:11	BJ
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:11	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0179	1	EPA 8082A Certifications:	09/21/2020 07:23	09/22/2020 06:11	BJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	57.5 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	53.0 %	30-140							

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	<b>Aluminum</b>	<b>9340</b>		mg/kg dry	5.44	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:40	KML
7440-36-0	Antimony	ND		mg/kg dry	2.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:40	KML
7440-38-2	<b>Arsenic</b>	<b>9.72</b>		mg/kg dry	1.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:40	KML
7440-39-3	<b>Barium</b>	<b>63.7</b>		mg/kg dry	2.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:40	KML
7440-41-7	<b>Beryllium</b>	<b>0.157</b>		mg/kg dry	0.054	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:40	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.326	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:40	KML
7440-70-2	<b>Calcium</b>	<b>16600</b>		mg/kg dry	5.44	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:40	KML
7440-47-3	<b>Chromium</b>	<b>11.8</b>		mg/kg dry	0.544	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:40	KML
7440-48-4	<b>Cobalt</b>	<b>6.10</b>		mg/kg dry	0.435	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:40	KML
7440-50-8	<b>Copper</b>	<b>26.0</b>		mg/kg dry	2.18	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:40	KML
7439-89-6	<b>Iron</b>	<b>17300</b>		mg/kg dry	27.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:40	KML



### Sample Information

**Client Sample ID:** GSB-10 0-5

**York Sample ID:** 20I0612-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	129	B	mg/kg dry	0.544	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:40	KML
7439-95-4	Magnesium	7050		mg/kg dry	5.44	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:40	KML
7439-96-5	Manganese	368		mg/kg dry	0.544	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:40	KML
7440-02-0	Nickel	16.5		mg/kg dry	1.09	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:40	KML
7440-09-7	Potassium	1250	B	mg/kg dry	5.44	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:40	KML
7782-49-2	Selenium	ND		mg/kg dry	2.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:40	KML
7440-22-4	Silver	ND		mg/kg dry	0.544	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:40	KML
7440-23-5	Sodium	401	B	mg/kg dry	54.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:40	KML
7440-28-0	Thallium	ND		mg/kg dry	2.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:40	KML
7440-62-2	Vanadium	19.5		mg/kg dry	1.09	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:40	KML
7440-66-6	Zinc	88.5		mg/kg dry	2.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:40	KML

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.562		mg/kg dry	0.0326	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	09/16/2020 14:32	09/16/2020 15:36	SY

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	92.0		%	0.100	1	SM 2540G Certifications: CTDOH	09/16/2020 08:11	09/16/2020 16:40	SK



Sample Information

Client Sample ID: GSB-12 0-5

York Sample ID: 20I0612-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

Table with 13 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include various chemical compounds like 1,1-Biphenyl, 1,2,4-Trichlorobenzene, etc.



### Sample Information

**Client Sample ID:** GSB-12 0-5

**York Sample ID:** 20I0612-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/kg dry	88.9	178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	88.9	178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	88.9	178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	88.9	178	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
83-32-9	Acenaphthene	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
208-96-8	<b>Acenaphthylene</b>	<b>517</b>		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
98-86-2	Acetophenone	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
62-53-3	Aniline	ND		ug/kg dry	178	356	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
120-12-7	<b>Anthracene</b>	<b>332</b>		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
1912-24-9	Atrazine	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
92-87-5	Benzidine	ND		ug/kg dry	178	356	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
56-55-3	<b>Benzo(a)anthracene</b>	<b>875</b>		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
50-32-8	<b>Benzo(a)pyrene</b>	<b>780</b>		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
205-99-2	<b>Benzo(b)fluoranthene</b>	<b>693</b>		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
191-24-2	<b>Benzo(g,h,i)perylene</b>	<b>387</b>		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
207-08-9	<b>Benzo(k)fluoranthene</b>	<b>754</b>		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
65-85-0	Benzoic acid	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH



## Sample Information

**Client Sample ID:** GSB-12 0-5

**York Sample ID:** 20I0612-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
105-60-2	Caprolactam	ND		ug/kg dry	88.9	178	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
86-74-8	Carbazole	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
218-01-9	<b>Chrysene</b>	<b>802</b>		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
53-70-3	<b>Dibenzo(a,h)anthracene</b>	<b>165</b>		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
122-39-4	* Diphenylamine	ND		ug/kg dry	88.9	178	2	EPA 8270D Certifications:	09/21/2020 07:17	09/22/2020 00:40	KH
206-44-0	<b>Fluoranthene</b>	<b>1550</b>		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
86-73-7	<b>Fluorene</b>	<b>54.0</b>	J	ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
193-39-5	<b>Indeno(1,2,3-cd)pyrene</b>	<b>472</b>		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
78-59-1	Isophorone	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH





### Sample Information

**Client Sample ID:** GSB-12 0-5

**York Sample ID:** 20I0612-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
85-01-8	<b>Phenanthrene</b>	<b>419</b>		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
108-95-2	Phenol	ND		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
129-00-0	<b>Pyrene</b>	<b>1520</b>		ug/kg dry	44.6	88.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 00:40	KH
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
367-12-4	Surrogate: SURR: 2-Fluorophenol	55.0 %	20-108								
4165-62-2	Surrogate: SURR: Phenol-d5	57.3 %	23-114								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	47.4 %	22-108								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	55.4 %	21-113								
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	72.4 %	19-110								
1718-51-0	Surrogate: SURR: Terphenyl-d14	68.0 %	24-116								

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:21	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:21	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:21	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:21	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:21	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 09:21	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:21	CM



### Sample Information

**Client Sample ID:** GSB-12 0-5

**York Sample ID:** 20I0612-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	Chlordane, total	ND		mg/kg dry	0.0348	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:21	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:21	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:21	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:21	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	09/21/2020 07:23	09/22/2020 09:21	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:21	CM
72-20-8	Endrin	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:21	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:21	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:21	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:21	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 09:21	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:21	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:21	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00871	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:21	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.0881	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:21	CM
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
2051-24-3	Surrogate: Decachlorobiphenyl	82.6 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	57.7 %	30-150							

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:24	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:24	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:24	BJ



### Sample Information

**Client Sample ID:** GSB-12 0-5

**York Sample ID:** 20I0612-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:24	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:24	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:24	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:24	BJ
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:24	BJ
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:24	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications:	09/21/2020 07:23	09/22/2020 06:24	BJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	57.5 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	53.5 %	30-140							

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	<b>Aluminum</b>	<b>10500</b>		mg/kg dry	5.35	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:57	KML
7440-36-0	Antimony	ND		mg/kg dry	2.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:57	KML
7440-38-2	<b>Arsenic</b>	<b>6.54</b>		mg/kg dry	1.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:57	KML
7440-39-3	<b>Barium</b>	<b>36.9</b>		mg/kg dry	2.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:57	KML
7440-41-7	<b>Beryllium</b>	<b>0.273</b>		mg/kg dry	0.053	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:57	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.321	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:57	KML
7440-70-2	<b>Calcium</b>	<b>22100</b>		mg/kg dry	5.35	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:57	KML
7440-47-3	<b>Chromium</b>	<b>11.8</b>		mg/kg dry	0.535	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:57	KML
7440-48-4	<b>Cobalt</b>	<b>9.00</b>		mg/kg dry	0.428	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:57	KML
7440-50-8	<b>Copper</b>	<b>24.9</b>		mg/kg dry	2.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:57	KML
7439-89-6	<b>Iron</b>	<b>21600</b>		mg/kg dry	26.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:57	KML



### Sample Information

**Client Sample ID:** GSB-12 0-5

**York Sample ID:** 20I0612-07

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 11, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	74.3	B	mg/kg dry	0.535	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:57	KML
7439-95-4	Magnesium	5310		mg/kg dry	5.35	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:57	KML
7439-96-5	Manganese	529		mg/kg dry	0.535	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:57	KML
7440-02-0	Nickel	19.5		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:57	KML
7440-09-7	Potassium	1140	B	mg/kg dry	5.35	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:57	KML
7782-49-2	Selenium	ND		mg/kg dry	2.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:57	KML
7440-22-4	Silver	ND		mg/kg dry	0.535	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:57	KML
7440-23-5	Sodium	447	B	mg/kg dry	53.5	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:57	KML
7440-28-0	Thallium	ND		mg/kg dry	2.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:57	KML
7440-62-2	Vanadium	13.2		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:57	KML
7440-66-6	Zinc	63.9		mg/kg dry	2.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 14:57	KML

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.274		mg/kg dry	0.0321	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	09/16/2020 14:32	09/16/2020 16:10	SY

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	93.5		%	0.100	1	SM 2540G Certifications: CTDOH	09/16/2020 08:11	09/16/2020 16:40	SK



### Sample Information

**Client Sample ID:** GSB-13 0-2

**York Sample ID:** 20I0612-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	87.5	175	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	87.5	175	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	87.5	175	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	87.5	175	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH



### Sample Information

**Client Sample ID:** GSB-13 0-2

**York Sample ID:** 20I0612-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/kg dry	87.5	175	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	87.5	175	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	87.5	175	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	87.5	175	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
83-32-9	Acenaphthene	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
98-86-2	Acetophenone	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
62-53-3	Aniline	ND		ug/kg dry	175	350	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
120-12-7	Anthracene	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
1912-24-9	Atrazine	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
92-87-5	Benzidine	ND		ug/kg dry	175	350	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
56-55-3	<b>Benzo(a)anthracene</b>	<b>59.4</b>	J	ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
50-32-8	<b>Benzo(a)pyrene</b>	<b>58.1</b>	J	ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
205-99-2	<b>Benzo(b)fluoranthene</b>	<b>48.3</b>	J	ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
207-08-9	<b>Benzo(k)fluoranthene</b>	<b>46.2</b>	J	ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
65-85-0	Benzoic acid	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH





### Sample Information

**Client Sample ID:** GSB-13 0-2

**York Sample ID:** 20I0612-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
105-60-2	Caprolactam	ND		ug/kg dry	87.5	175	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
86-74-8	Carbazole	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
218-01-9	<b>Chrysene</b>	<b>60.1</b>	J	ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
122-39-4	* Diphenylamine	ND		ug/kg dry	87.5	175	2	EPA 8270D Certifications:	09/21/2020 07:17	09/22/2020 01:09	KH
206-44-0	<b>Fluoranthene</b>	<b>90.9</b>		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
86-73-7	Fluorene	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
193-39-5	<b>Indeno(1,2,3-cd)pyrene</b>	<b>44.1</b>	J	ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
78-59-1	Isophorone	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH



### Sample Information

**Client Sample ID:** GSB-13 0-2

**York Sample ID:** 20I0612-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
85-01-8	<b>Phenanthrene</b>	<b>51.1</b>	J	ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
108-95-2	Phenol	ND		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
129-00-0	<b>Pyrene</b>	<b>115</b>		ug/kg dry	43.9	87.5	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:17	09/22/2020 01:09	KH
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
367-12-4	Surrogate: SURR: 2-Fluorophenol	61.0 %	20-108								
4165-62-2	Surrogate: SURR: Phenol-d5	65.3 %	23-114								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	53.6 %	22-108								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	64.6 %	21-113								
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	81.3 %	19-110								
1718-51-0	Surrogate: SURR: Terphenyl-d14	80.5 %	24-116								

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:39	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:39	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:39	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:39	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:39	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 09:39	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:39	CM



### Sample Information

**Client Sample ID:** GSB-13 0-2

**York Sample ID:** 20I0612-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	Chlordane, total	ND		mg/kg dry	0.0348	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:39	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:39	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:39	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:39	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	09/21/2020 07:23	09/22/2020 09:39	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:39	CM
72-20-8	Endrin	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:39	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:39	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:39	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:39	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 09:39	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:39	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00174	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:39	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00871	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:39	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.0882	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:39	CM
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
2051-24-3	Surrogate: Decachlorobiphenyl	59.5 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	61.9 %	30-150							

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:38	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:38	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:38	BJ



### Sample Information

**Client Sample ID:** GSB-13 0-2

**York Sample ID:** 20I0612-08

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 11, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:38	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:38	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:38	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:38	BJ
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:38	BJ
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:38	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0176	1	EPA 8082A Certifications:	09/21/2020 07:23	09/22/2020 06:38	BJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	48.0 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	43.5 %	30-140							

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	<b>Aluminum</b>	<b>11500</b>		mg/kg dry	5.35	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:04	KML
7440-36-0	Antimony	ND		mg/kg dry	2.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:04	KML
7440-38-2	<b>Arsenic</b>	<b>4.32</b>		mg/kg dry	1.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:04	KML
7440-39-3	<b>Barium</b>	<b>69.6</b>		mg/kg dry	2.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:04	KML
7440-41-7	<b>Beryllium</b>	<b>0.234</b>		mg/kg dry	0.054	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:04	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.321	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:04	KML
7440-70-2	<b>Calcium</b>	<b>6050</b>		mg/kg dry	5.35	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:04	KML
7440-47-3	<b>Chromium</b>	<b>11.0</b>		mg/kg dry	0.535	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:04	KML
7440-48-4	<b>Cobalt</b>	<b>5.94</b>		mg/kg dry	0.428	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:04	KML
7440-50-8	<b>Copper</b>	<b>21.7</b>		mg/kg dry	2.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:04	KML
7439-89-6	<b>Iron</b>	<b>16500</b>		mg/kg dry	26.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:04	KML



**Sample Information**

**Client Sample ID:** GSB-13 0-2

**York Sample ID:** 20I0612-08

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 11, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	<b>Lead</b>	<b>110</b>	B	mg/kg dry	0.535	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:04	KML
7439-95-4	<b>Magnesium</b>	<b>3380</b>		mg/kg dry	5.35	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:04	KML
7439-96-5	<b>Manganese</b>	<b>407</b>		mg/kg dry	0.535	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:04	KML
7440-02-0	<b>Nickel</b>	<b>14.2</b>		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:04	KML
7440-09-7	<b>Potassium</b>	<b>1140</b>	B	mg/kg dry	5.35	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:04	KML
7782-49-2	Selenium	ND		mg/kg dry	2.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:04	KML
7440-22-4	Silver	ND		mg/kg dry	0.535	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:04	KML
7440-23-5	<b>Sodium</b>	<b>692</b>	B	mg/kg dry	53.5	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:04	KML
7440-28-0	Thallium	ND		mg/kg dry	2.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:04	KML
7440-62-2	<b>Vanadium</b>	<b>13.9</b>		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:04	KML
7440-66-6	<b>Zinc</b>	<b>64.2</b>		mg/kg dry	2.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:04	KML

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	<b>Mercury</b>	<b>3.33</b>		mg/kg dry	0.0321	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	09/16/2020 14:32	09/16/2020 16:50	SY

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	<b>* % Solids</b>	<b>93.4</b>		%	0.100	1	SM 2540G Certifications: CTDOH	09/16/2020 08:11	09/16/2020 16:40	SK



### Sample Information

**Client Sample ID:** GSB-15 0-5

**York Sample ID:** 20I0612-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	87.4	175	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	87.4	175	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	87.4	175	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	87.4	175	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH





### Sample Information

**Client Sample ID:** GSB-15 0-5

**York Sample ID:** 20I0612-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/kg dry	87.4	175	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	87.4	175	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	87.4	175	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	87.4	175	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
83-32-9	<b>Acenaphthene</b>	<b>83.8</b>	J	ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
208-96-8	<b>Acenaphthylene</b>	<b>70.6</b>	J	ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
98-86-2	Acetophenone	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
62-53-3	Aniline	ND		ug/kg dry	175	350	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
120-12-7	<b>Anthracene</b>	<b>217</b>		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
1912-24-9	Atrazine	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
92-87-5	Benzidine	ND		ug/kg dry	175	350	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
56-55-3	<b>Benzo(a)anthracene</b>	<b>465</b>		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
50-32-8	<b>Benzo(a)pyrene</b>	<b>384</b>		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
205-99-2	<b>Benzo(b)fluoranthene</b>	<b>328</b>		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
191-24-2	<b>Benzo(g,h,i)perylene</b>	<b>254</b>		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
207-08-9	<b>Benzo(k)fluoranthene</b>	<b>354</b>		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
65-85-0	Benzoic acid	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH



### Sample Information

**Client Sample ID:** GSB-15 0-5

**York Sample ID:** 20I0612-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
105-60-2	Caprolactam	ND		ug/kg dry	87.4	175	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
86-74-8	<b>Carbazole</b>	<b>111</b>		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
218-01-9	<b>Chrysene</b>	<b>480</b>		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
53-70-3	<b>Dibenzo(a,h)anthracene</b>	<b>96.4</b>		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
132-64-9	<b>Dibenzofuran</b>	<b>51.7</b>	J	ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
122-39-4	* Diphenylamine	ND		ug/kg dry	87.4	175	2	EPA 8270D Certifications:	09/18/2020 14:06	09/21/2020 12:02	KH
206-44-0	<b>Fluoranthene</b>	<b>1040</b>		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
86-73-7	<b>Fluorene</b>	<b>88.0</b>		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
193-39-5	<b>Indeno(1,2,3-cd)pyrene</b>	<b>256</b>		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
78-59-1	Isophorone	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH



### Sample Information

**Client Sample ID:** GSB-15 0-5

**York Sample ID:** 20I0612-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
85-01-8	<b>Phenanthrene</b>	<b>1070</b>		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
108-95-2	Phenol	ND		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
129-00-0	<b>Pyrene</b>	<b>964</b>		ug/kg dry	43.8	87.4	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:02	KH
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
367-12-4	Surrogate: SURR: 2-Fluorophenol	57.5 %	20-108								
4165-62-2	Surrogate: SURR: Phenol-d5	60.6 %	23-114								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	60.6 %	22-108								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	59.8 %	21-113								
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	71.6 %	19-110								
1718-51-0	Surrogate: SURR: Terphenyl-d14	71.8 %	24-116								

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:57	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:57	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:57	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:57	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:57	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 09:57	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:57	CM



### Sample Information

**Client Sample ID:** GSB-15 0-5

**York Sample ID:** 20I0612-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	Chlordane, total	ND		mg/kg dry	0.0342	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:57	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:57	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:57	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:57	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	09/21/2020 07:23	09/22/2020 09:57	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:57	CM
72-20-8	Endrin	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:57	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:57	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:57	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:57	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 09:57	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:57	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:57	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00856	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:57	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.0867	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 09:57	CM
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>						
2051-24-3	Surrogate: Decachlorobiphenyl	63.3 %		30-150						
877-09-8	Surrogate: Tetrachloro-m-xylene	47.4 %		30-150						

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:51	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:51	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:51	BJ



### Sample Information

**Client Sample ID:** GSB-15 0-5

**York Sample ID:** 20I0612-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:51	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:51	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:51	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:51	BJ
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:51	BJ
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 06:51	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications:	09/21/2020 07:23	09/22/2020 06:51	BJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	60.5 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	59.5 %	30-140							

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	<b>Aluminum</b>	<b>6650</b>		mg/kg dry	5.28	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:11	KML
7440-36-0	Antimony	ND		mg/kg dry	2.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:11	KML
7440-38-2	<b>Arsenic</b>	<b>3.52</b>		mg/kg dry	1.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:11	KML
7440-39-3	<b>Barium</b>	<b>100</b>		mg/kg dry	2.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:11	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.053	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:11	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.317	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:11	KML
7440-70-2	<b>Calcium</b>	<b>48700</b>		mg/kg dry	5.28	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:11	KML
7440-47-3	<b>Chromium</b>	<b>10.8</b>		mg/kg dry	0.528	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:11	KML
7440-48-4	<b>Cobalt</b>	<b>2.51</b>		mg/kg dry	0.422	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:11	KML
7440-50-8	<b>Copper</b>	<b>7.44</b>		mg/kg dry	2.11	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:11	KML
7439-89-6	<b>Iron</b>	<b>7480</b>		mg/kg dry	26.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:11	KML



### Sample Information

**Client Sample ID:** GSB-15 0-5

**York Sample ID:** 20I0612-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	48.1	B	mg/kg dry	0.528	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:11	KML
7439-95-4	Magnesium	18200		mg/kg dry	5.28	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:11	KML
7439-96-5	Manganese	173		mg/kg dry	0.528	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:11	KML
7440-02-0	Nickel	6.57		mg/kg dry	1.06	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:11	KML
7440-09-7	Potassium	1180	B	mg/kg dry	5.28	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:11	KML
7782-49-2	Selenium	ND		mg/kg dry	2.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:11	KML
7440-22-4	Silver	ND		mg/kg dry	0.528	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:11	KML
7440-23-5	Sodium	1160	B	mg/kg dry	52.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:11	KML
7440-28-0	Thallium	ND		mg/kg dry	2.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:11	KML
7440-62-2	Vanadium	14.9		mg/kg dry	1.06	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:11	KML
7440-66-6	Zinc	76.0		mg/kg dry	2.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:11	KML

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0344		mg/kg dry	0.0317	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	09/16/2020 14:32	09/16/2020 16:58	SY

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	94.8		%	0.100	1	SM 2540G Certifications: CTDOH	09/16/2020 08:11	09/16/2020 16:40	SK





### Sample Information

**Client Sample ID:** SV-02

**York Sample ID:** 20I0612-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	85.0	170	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	85.0	170	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	85.0	170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	85.0	170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH



### Sample Information

**Client Sample ID:** SV-02

**York Sample ID:** 20I0612-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/kg dry	85.0	170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	85.0	170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	85.0	170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	85.0	170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
83-32-9	Acenaphthene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
98-86-2	Acetophenone	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
62-53-3	Aniline	ND		ug/kg dry	170	340	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
120-12-7	Anthracene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
1912-24-9	Atrazine	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
92-87-5	Benzidine	ND		ug/kg dry	170	340	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
65-85-0	Benzoic acid	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH



### Sample Information

**Client Sample ID:** SV-02

**York Sample ID:** 20I0612-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
105-60-2	Caprolactam	ND		ug/kg dry	85.0	170	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
86-74-8	Carbazole	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
218-01-9	Chrysene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
122-39-4	* Diphenylamine	ND		ug/kg dry	85.0	170	2	EPA 8270D Certifications:	09/18/2020 14:06	09/21/2020 12:31	KH
206-44-0	Fluoranthene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
86-73-7	Fluorene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
78-59-1	Isophorone	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH



### Sample Information

**Client Sample ID:** SV-02

**York Sample ID:** 20I0612-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
85-01-8	Phenanthrene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
108-95-2	Phenol	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH
129-00-0	Pyrene	ND		ug/kg dry	42.6	85.0	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 12:31	KH

**Surrogate Recoveries**

**Result**

**Acceptance Range**

367-12-4	Surrogate: SURR: 2-Fluorophenol	58.7 %	20-108
4165-62-2	Surrogate: SURR: Phenol-d5	64.7 %	23-114
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	62.2 %	22-108
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	65.2 %	21-113
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	63.8 %	19-110
1718-51-0	Surrogate: SURR: Terphenyl-d14	78.1 %	24-116

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:15	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:15	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:15	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:15	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:15	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 10:15	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:15	CM



### Sample Information

**Client Sample ID:** SV-02

**York Sample ID:** 20I0612-10

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	Chlordane, total	ND		mg/kg dry	0.0331	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:15	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:15	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:15	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:15	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	09/21/2020 07:23	09/22/2020 10:15	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:15	CM
72-20-8	Endrin	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:15	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:15	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:15	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:15	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 10:15	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:15	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:15	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00827	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:15	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.0837	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:15	CM
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
2051-24-3	Surrogate: Decachlorobiphenyl	77.3 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	74.1 %	30-150							

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:19	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:19	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:19	BJ



### Sample Information

**Client Sample ID:** SV-02

**York Sample ID:** 20I0612-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:19	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:19	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:19	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:19	BJ
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:19	BJ
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:19	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications:	09/21/2020 07:23	09/22/2020 07:19	BJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	64.0 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	65.5 %	30-140							

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	<b>Aluminum</b>	<b>13500</b>		mg/kg dry	5.13	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:18	KML
7440-36-0	Antimony	ND		mg/kg dry	2.57	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:18	KML
7440-38-2	<b>Arsenic</b>	<b>3.96</b>		mg/kg dry	1.54	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:18	KML
7440-39-3	<b>Barium</b>	<b>37.2</b>		mg/kg dry	2.57	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:18	KML
7440-41-7	<b>Beryllium</b>	<b>0.353</b>		mg/kg dry	0.051	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:18	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.308	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:18	KML
7440-70-2	<b>Calcium</b>	<b>14500</b>		mg/kg dry	5.13	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:18	KML
7440-47-3	<b>Chromium</b>	<b>13.5</b>		mg/kg dry	0.513	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:18	KML
7440-48-4	<b>Cobalt</b>	<b>8.48</b>		mg/kg dry	0.410	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:18	KML
7440-50-8	<b>Copper</b>	<b>26.3</b>		mg/kg dry	2.05	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:18	KML
7439-89-6	<b>Iron</b>	<b>24000</b>		mg/kg dry	25.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:18	KML





**Sample Information**

**Client Sample ID:** SV-02

**York Sample ID:** 20I0612-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	<b>Lead</b>	<b>24.8</b>	B	mg/kg dry	0.513	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:18	KML
7439-95-4	<b>Magnesium</b>	<b>6730</b>		mg/kg dry	5.13	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:18	KML
7439-96-5	<b>Manganese</b>	<b>741</b>		mg/kg dry	0.513	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:18	KML
7440-02-0	<b>Nickel</b>	<b>21.7</b>		mg/kg dry	1.03	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:18	KML
7440-09-7	<b>Potassium</b>	<b>1550</b>	B	mg/kg dry	5.13	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:18	KML
7782-49-2	Selenium	ND		mg/kg dry	2.57	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:18	KML
7440-22-4	Silver	ND		mg/kg dry	0.513	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:18	KML
7440-23-5	<b>Sodium</b>	<b>132</b>	B	mg/kg dry	51.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:18	KML
7440-28-0	Thallium	ND		mg/kg dry	2.57	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:18	KML
7440-62-2	<b>Vanadium</b>	<b>13.1</b>		mg/kg dry	1.03	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:18	KML
7440-66-6	<b>Zinc</b>	<b>59.8</b>		mg/kg dry	2.57	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:18	KML

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	<b>Mercury</b>	<b>0.0711</b>		mg/kg dry	0.0308	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	09/16/2020 14:32	09/16/2020 17:07	SY

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	<b>* % Solids</b>	<b>97.4</b>		%	0.100	1	SM 2540G Certifications: CTDOH	09/16/2020 08:11	09/16/2020 16:40	SK



### Sample Information

**Client Sample ID:** SV-03

**York Sample ID:** 20I0612-11

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	87.8	175	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	87.8	175	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	87.8	175	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	87.8	175	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH



### Sample Information

**Client Sample ID:** SV-03

**York Sample ID:** 20I0612-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/kg dry	87.8	175	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	87.8	175	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	87.8	175	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	87.8	175	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
83-32-9	Acenaphthene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
98-86-2	Acetophenone	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
62-53-3	Aniline	ND		ug/kg dry	176	352	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
120-12-7	Anthracene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
1912-24-9	Atrazine	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
92-87-5	Benzidine	ND		ug/kg dry	176	352	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
65-85-0	Benzoic acid	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH



### Sample Information

**Client Sample ID:** SV-03

**York Sample ID:** 20I0612-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
105-60-2	Caprolactam	ND		ug/kg dry	87.8	175	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
86-74-8	Carbazole	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
218-01-9	Chrysene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
122-39-4	* Diphenylamine	ND		ug/kg dry	87.8	175	2	EPA 8270D Certifications:	09/18/2020 14:06	09/21/2020 13:00	KH
206-44-0	Fluoranthene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
86-73-7	Fluorene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
78-59-1	Isophorone	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH



## Sample Information

**Client Sample ID:** SV-03

**York Sample ID:** 20I0612-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
85-01-8	Phenanthrene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
108-95-2	Phenol	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
129-00-0	Pyrene	ND		ug/kg dry	44.0	87.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 13:00	KH
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
367-12-4	Surrogate: SURR: 2-Fluorophenol	51.0 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	53.2 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	52.0 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	51.8 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	66.5 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	65.9 %			24-116						

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:33	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:33	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:33	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:33	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:33	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 10:33	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:33	CM



### Sample Information

**Client Sample ID:** SV-03

**York Sample ID:** 20I0612-11

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	Chlordane, total	ND		mg/kg dry	0.0342	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:33	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:33	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:33	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:33	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	09/21/2020 07:23	09/22/2020 10:33	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:33	CM
72-20-8	Endrin	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:33	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:33	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:33	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:33	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 10:33	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:33	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:33	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00854	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:33	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.0865	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:33	CM
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>						
2051-24-3	Surrogate: Decachlorobiphenyl	82.4 %		30-150						
877-09-8	Surrogate: Tetrachloro-m-xylene	76.3 %		30-150						

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:32	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:32	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:32	BJ





### Sample Information

**Client Sample ID:** SV-03

**York Sample ID:** 20I0612-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:32	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:32	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:32	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:32	BJ
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:32	BJ
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:32	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0173	1	EPA 8082A Certifications:	09/21/2020 07:23	09/22/2020 07:32	BJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	63.5 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	61.5 %	30-140							

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	<b>Aluminum</b>	<b>13400</b>		mg/kg dry	5.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:25	KML
7440-36-0	Antimony	ND		mg/kg dry	2.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:25	KML
7440-38-2	<b>Arsenic</b>	<b>3.76</b>		mg/kg dry	1.59	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:25	KML
7440-39-3	<b>Barium</b>	<b>33.8</b>		mg/kg dry	2.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:25	KML
7440-41-7	<b>Beryllium</b>	<b>0.263</b>		mg/kg dry	0.053	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:25	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.318	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:25	KML
7440-70-2	<b>Calcium</b>	<b>4290</b>		mg/kg dry	5.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:25	KML
7440-47-3	<b>Chromium</b>	<b>12.4</b>		mg/kg dry	0.530	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:25	KML
7440-48-4	<b>Cobalt</b>	<b>8.07</b>		mg/kg dry	0.424	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:25	KML
7440-50-8	<b>Copper</b>	<b>21.9</b>		mg/kg dry	2.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:25	KML
7439-89-6	<b>Iron</b>	<b>23000</b>		mg/kg dry	26.5	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:25	KML



**Sample Information**

**Client Sample ID:** SV-03

**York Sample ID:** 20I0612-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	27.4	B	mg/kg dry	0.530	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:25	KML
7439-95-4	Magnesium	5610		mg/kg dry	5.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:25	KML
7439-96-5	Manganese	609		mg/kg dry	0.530	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:25	KML
7440-02-0	Nickel	20.5		mg/kg dry	1.06	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:25	KML
7440-09-7	Potassium	1660	B	mg/kg dry	5.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:25	KML
7782-49-2	Selenium	ND		mg/kg dry	2.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:25	KML
7440-22-4	Silver	ND		mg/kg dry	0.530	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:25	KML
7440-23-5	Sodium	605	B	mg/kg dry	53.0	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:25	KML
7440-28-0	Thallium	ND		mg/kg dry	2.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:25	KML
7440-62-2	Vanadium	12.4		mg/kg dry	1.06	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:25	KML
7440-66-6	Zinc	52.6		mg/kg dry	2.65	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:25	KML

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0700		mg/kg dry	0.0318	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	09/16/2020 14:32	09/16/2020 17:16	SY

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	94.3		%	0.100	1	SM 2540G Certifications: CTDOH	09/16/2020 08:17	09/16/2020 17:02	SK



### Sample Information

**Client Sample ID:** SV-04

**York Sample ID:** 20I0612-12

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	90.2	180	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	90.2	180	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	90.2	180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	90.2	180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH



### Sample Information

**Client Sample ID:** SV-04

**York Sample ID:** 20I0612-12

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/kg dry	90.2	180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	90.2	180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	90.2	180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	90.2	180	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
83-32-9	Acenaphthene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
98-86-2	Acetophenone	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
62-53-3	Aniline	ND		ug/kg dry	181	361	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
120-12-7	Anthracene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
1912-24-9	Atrazine	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
92-87-5	Benzidine	ND		ug/kg dry	181	361	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
65-85-0	Benzoic acid	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH



### Sample Information

**Client Sample ID:** SV-04

**York Sample ID:** 20I0612-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
105-60-2	Caprolactam	ND		ug/kg dry	90.2	180	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
86-74-8	Carbazole	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
218-01-9	Chrysene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
131-11-3	<b>Dimethyl phthalate</b>	<b>84.4</b>	J	ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
122-39-4	* Diphenylamine	ND		ug/kg dry	90.2	180	2	EPA 8270D Certifications:	09/18/2020 14:06	09/21/2020 14:28	KH
206-44-0	Fluoranthene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
86-73-7	Fluorene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
78-59-1	Isophorone	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH



### Sample Information

**Client Sample ID:** SV-04

**York Sample ID:** 20I0612-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
85-01-8	Phenanthrene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
108-95-2	Phenol	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
129-00-0	Pyrene	ND		ug/kg dry	45.2	90.2	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:28	KH
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
367-12-4	Surrogate: SURR: 2-Fluorophenol	57.7 %	20-108								
4165-62-2	Surrogate: SURR: Phenol-d5	62.2 %	23-114								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	61.9 %	22-108								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	61.4 %	21-113								
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	70.9 %	19-110								
1718-51-0	Surrogate: SURR: Terphenyl-d14	69.7 %	24-116								

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:51	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:51	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:51	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:51	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:51	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 10:51	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:51	CM





### Sample Information

**Client Sample ID:** SV-04

**York Sample ID:** 20I0612-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	Chlordane, total	ND		mg/kg dry	0.0351	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:51	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:51	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:51	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:51	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	09/21/2020 07:23	09/22/2020 10:51	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:51	CM
72-20-8	Endrin	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:51	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:51	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:51	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:51	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 10:51	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:51	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:51	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00878	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:51	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.0888	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 10:51	CM
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
2051-24-3	Surrogate: Decachlorobiphenyl	56.4 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	55.9 %	30-150							

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:46	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:46	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:46	BJ



### Sample Information

**Client Sample ID:** SV-04

**York Sample ID:** 20I0612-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:46	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:46	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:46	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:46	BJ
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:46	BJ
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:46	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications:	09/21/2020 07:23	09/22/2020 07:46	BJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	49.5 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	44.5 %	30-140							

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	<b>Aluminum</b>	<b>11300</b>		mg/kg dry	5.44	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:32	KML
7440-36-0	Antimony	ND		mg/kg dry	2.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:32	KML
7440-38-2	<b>Arsenic</b>	<b>5.51</b>		mg/kg dry	1.63	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:32	KML
7440-39-3	<b>Barium</b>	<b>175</b>		mg/kg dry	2.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:32	KML
7440-41-7	<b>Beryllium</b>	<b>0.279</b>		mg/kg dry	0.054	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:32	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.327	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:32	KML
7440-70-2	<b>Calcium</b>	<b>15200</b>		mg/kg dry	5.44	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:32	KML
7440-47-3	<b>Chromium</b>	<b>13.1</b>		mg/kg dry	0.544	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:32	KML
7440-48-4	<b>Cobalt</b>	<b>5.81</b>		mg/kg dry	0.436	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:32	KML
7440-50-8	<b>Copper</b>	<b>34.8</b>		mg/kg dry	2.18	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:32	KML
7439-89-6	<b>Iron</b>	<b>24800</b>		mg/kg dry	27.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:32	KML



**Sample Information**

**Client Sample ID:** SV-04

**York Sample ID:** 20I0612-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	<b>Lead</b>	<b>569</b>	B	mg/kg dry	0.544	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:32	KML
7439-95-4	<b>Magnesium</b>	<b>4410</b>		mg/kg dry	5.44	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:32	KML
7439-96-5	<b>Manganese</b>	<b>595</b>		mg/kg dry	0.544	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:32	KML
7440-02-0	<b>Nickel</b>	<b>16.2</b>		mg/kg dry	1.09	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:32	KML
7440-09-7	<b>Potassium</b>	<b>1470</b>	B	mg/kg dry	5.44	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:32	KML
7782-49-2	Selenium	ND		mg/kg dry	2.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:32	KML
7440-22-4	Silver	ND		mg/kg dry	0.544	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:32	KML
7440-23-5	<b>Sodium</b>	<b>263</b>	B	mg/kg dry	54.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:32	KML
7440-28-0	Thallium	ND		mg/kg dry	2.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:32	KML
7440-62-2	<b>Vanadium</b>	<b>13.0</b>		mg/kg dry	1.09	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:32	KML
7440-66-6	<b>Zinc</b>	<b>249</b>		mg/kg dry	2.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:32	KML

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	<b>Mercury</b>	<b>0.802</b>		mg/kg dry	0.0327	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	09/16/2020 14:32	09/16/2020 17:25	SY

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	<b>* % Solids</b>	<b>91.8</b>		%	0.100	1	SM 2540G Certifications: CTDOH	09/16/2020 08:17	09/16/2020 17:02	SK



### Sample Information

**Client Sample ID:** SV-05

**York Sample ID:** 20I0612-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	84.9	170	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	84.9	170	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	84.9	170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	84.9	170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH



### Sample Information

**Client Sample ID:** SV-05

**York Sample ID:** 20I0612-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/kg dry	84.9	170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	84.9	170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	84.9	170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	84.9	170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
83-32-9	Acenaphthene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
98-86-2	Acetophenone	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
62-53-3	Aniline	ND		ug/kg dry	170	340	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
120-12-7	Anthracene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
1912-24-9	Atrazine	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
92-87-5	Benzidine	ND		ug/kg dry	170	340	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
65-85-0	Benzoic acid	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH



### Sample Information

**Client Sample ID:** SV-05

**York Sample ID:** 20I0612-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
105-60-2	Caprolactam	ND		ug/kg dry	84.9	170	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
86-74-8	Carbazole	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
218-01-9	Chrysene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
131-11-3	<b>Dimethyl phthalate</b>	<b>71.3</b>	J	ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
122-39-4	* Diphenylamine	ND		ug/kg dry	84.9	170	2	EPA 8270D Certifications:	09/18/2020 14:06	09/21/2020 14:57	KH
206-44-0	Fluoranthene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
86-73-7	Fluorene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
78-59-1	Isophorone	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH





### Sample Information

**Client Sample ID:** SV-05

**York Sample ID:** 20I0612-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
85-01-8	Phenanthrene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
108-95-2	Phenol	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
129-00-0	Pyrene	ND		ug/kg dry	42.5	84.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 14:57	KH
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
367-12-4	Surrogate: SURR: 2-Fluorophenol	56.7 %	20-108								
4165-62-2	Surrogate: SURR: Phenol-d5	60.5 %	23-114								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	57.7 %	22-108								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	58.6 %	21-113								
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	67.5 %	19-110								
1718-51-0	Surrogate: SURR: Terphenyl-d14	67.8 %	24-116								

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:09	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:09	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:09	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:09	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:09	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 11:09	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:09	CM



### Sample Information

**Client Sample ID:** SV-05

**York Sample ID:** 20I0612-13

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	Chlordane, total	ND		mg/kg dry	0.0330	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:09	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:09	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:09	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:09	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	09/21/2020 07:23	09/22/2020 11:09	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:09	CM
72-20-8	Endrin	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:09	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:09	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:09	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:09	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 11:09	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:09	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00165	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:09	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00826	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:09	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.0836	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:09	CM
	<b>Surrogate Recoveries</b>	<b>Result</b>					<b>Acceptance Range</b>			
2051-24-3	Surrogate: Decachlorobiphenyl	71.7 %					30-150			
877-09-8	Surrogate: Tetrachloro-m-xylene	69.7 %					30-150			

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:59	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:59	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:59	BJ



### Sample Information

**Client Sample ID:** SV-05

**York Sample ID:** 20I0612-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:59	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:59	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:59	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:59	BJ
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:59	BJ
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 07:59	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0167	1	EPA 8082A Certifications:	09/21/2020 07:23	09/22/2020 07:59	BJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	61.0 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	58.0 %	30-140							

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	<b>Aluminum</b>	<b>13600</b>		mg/kg dry	5.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:39	KML
7440-36-0	Antimony	ND		mg/kg dry	2.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:39	KML
7440-38-2	<b>Arsenic</b>	<b>3.83</b>		mg/kg dry	1.54	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:39	KML
7440-39-3	<b>Barium</b>	<b>41.1</b>		mg/kg dry	2.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:39	KML
7440-41-7	<b>Beryllium</b>	<b>0.304</b>		mg/kg dry	0.051	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:39	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.307	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:39	KML
7440-70-2	<b>Calcium</b>	<b>979</b>		mg/kg dry	5.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:39	KML
7440-47-3	<b>Chromium</b>	<b>13.0</b>		mg/kg dry	0.512	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:39	KML
7440-48-4	<b>Cobalt</b>	<b>9.03</b>		mg/kg dry	0.410	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:39	KML
7440-50-8	<b>Copper</b>	<b>24.2</b>		mg/kg dry	2.05	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:39	KML
7439-89-6	<b>Iron</b>	<b>23500</b>		mg/kg dry	25.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:39	KML



**Sample Information**

**Client Sample ID:** SV-05

**York Sample ID:** 20I0612-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	<b>Lead</b>	<b>27.5</b>	B	mg/kg dry	0.512	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:39	KML
7439-95-4	<b>Magnesium</b>	<b>5650</b>		mg/kg dry	5.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:39	KML
7439-96-5	<b>Manganese</b>	<b>615</b>		mg/kg dry	0.512	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:39	KML
7440-02-0	<b>Nickel</b>	<b>20.6</b>		mg/kg dry	1.02	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:39	KML
7440-09-7	<b>Potassium</b>	<b>1490</b>	B	mg/kg dry	5.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:39	KML
7782-49-2	Selenium	ND		mg/kg dry	2.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:39	KML
7440-22-4	Silver	ND		mg/kg dry	0.512	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:39	KML
7440-23-5	<b>Sodium</b>	<b>76.0</b>	B	mg/kg dry	51.2	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:39	KML
7440-28-0	Thallium	ND		mg/kg dry	2.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:39	KML
7440-62-2	<b>Vanadium</b>	<b>13.2</b>		mg/kg dry	1.02	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:39	KML
7440-66-6	<b>Zinc</b>	<b>62.8</b>		mg/kg dry	2.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:39	KML

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	<b>Mercury</b>	<b>0.480</b>		mg/kg dry	0.0307	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	09/16/2020 14:32	09/16/2020 17:34	SY

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	<b>* % Solids</b>	<b>97.6</b>		%	0.100	1	SM 2540G Certifications: CTDOH	09/16/2020 08:17	09/16/2020 17:02	SK



### Sample Information

**Client Sample ID:** SV-06

**York Sample ID:** 20I0612-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	85.9	172	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	85.9	172	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	85.9	172	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	85.9	172	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH



### Sample Information

**Client Sample ID:** SV-06

**York Sample ID:** 20I0612-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/kg dry	85.9	172	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	85.9	172	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	85.9	172	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	85.9	172	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
83-32-9	<b>Acenaphthene</b>	<b>95.5</b>		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
208-96-8	<b>Acenaphthylene</b>	<b>60.5</b>	J	ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
98-86-2	Acetophenone	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
62-53-3	Aniline	ND		ug/kg dry	172	344	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
120-12-7	<b>Anthracene</b>	<b>278</b>		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
1912-24-9	Atrazine	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
92-87-5	Benzidine	ND		ug/kg dry	172	344	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
56-55-3	<b>Benzo(a)anthracene</b>	<b>674</b>		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
50-32-8	<b>Benzo(a)pyrene</b>	<b>627</b>		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
205-99-2	<b>Benzo(b)fluoranthene</b>	<b>564</b>		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
191-24-2	<b>Benzo(g,h,i)perylene</b>	<b>372</b>		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
207-08-9	<b>Benzo(k)fluoranthene</b>	<b>554</b>		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
65-85-0	Benzoic acid	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH





### Sample Information

**Client Sample ID:** SV-06

**York Sample ID:** 20I0612-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
105-60-2	Caprolactam	ND		ug/kg dry	85.9	172	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
86-74-8	<b>Carbazole</b>	<b>155</b>		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
218-01-9	<b>Chrysene</b>	<b>668</b>		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
53-70-3	<b>Dibenzo(a,h)anthracene</b>	<b>153</b>		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
132-64-9	<b>Dibenzofuran</b>	<b>61.1</b>	J	ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
131-11-3	<b>Dimethyl phthalate</b>	<b>59.1</b>	J	ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
122-39-4	* Diphenylamine	ND		ug/kg dry	85.9	172	2	EPA 8270D Certifications:	09/18/2020 14:06	09/21/2020 15:26	KH
206-44-0	<b>Fluoranthene</b>	<b>1440</b>		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
86-73-7	<b>Fluorene</b>	<b>115</b>		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
193-39-5	<b>Indeno(1,2,3-cd)pyrene</b>	<b>428</b>		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
78-59-1	Isophorone	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH



### Sample Information

**Client Sample ID:** SV-06

**York Sample ID:** 20I0612-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	46.0	J	ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
85-01-8	Phenanthrene	1150		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
108-95-2	Phenol	ND		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
129-00-0	Pyrene	1200		ug/kg dry	43.1	85.9	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:26	KH
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
367-12-4	Surrogate: SURR: 2-Fluorophenol	58.2 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	64.6 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	59.8 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	59.4 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	66.5 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	66.2 %			24-116						

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:27	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:27	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:27	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:27	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:27	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 11:27	CM



### Sample Information

**Client Sample ID:** SV-06

**York Sample ID:** 20I0612-14

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-85-7	beta-BHC	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:27	CM
57-74-9	Chlordane, total	ND		mg/kg dry	0.0341	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:27	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:27	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:27	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:27	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	09/21/2020 07:23	09/22/2020 11:27	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:27	CM
72-20-8	Endrin	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:27	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:27	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:27	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:27	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 11:27	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:27	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00171	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:27	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00853	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:27	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.0863	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:27	CM
	<b>Surrogate Recoveries</b>	<b>Result</b>					<b>Acceptance Range</b>			
2051-24-3	Surrogate: Decachlorobiphenyl	65.7 %					30-150			
877-09-8	Surrogate: Tetrachloro-m-xylene	63.5 %					30-150			

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:13	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:13	BJ



### Sample Information

**Client Sample ID:** SV-06

**York Sample ID:** 20I0612-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:13	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:13	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:13	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:13	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:13	BJ
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:13	BJ
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:13	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0172	1	EPA 8082A Certifications:	09/21/2020 07:23	09/22/2020 08:13	BJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	52.0 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	56.0 %	30-140							

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	11500		mg/kg dry	5.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:46	KML
7440-36-0	Antimony	ND		mg/kg dry	2.59	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:46	KML
7440-38-2	Arsenic	3.57		mg/kg dry	1.56	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:46	KML
7440-39-3	Barium	32.4		mg/kg dry	2.59	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:46	KML
7440-41-7	Beryllium	0.278		mg/kg dry	0.052	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:46	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.311	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:46	KML
7440-70-2	Calcium	2080		mg/kg dry	5.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:46	KML
7440-47-3	Chromium	12.4		mg/kg dry	0.519	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:46	KML
7440-48-4	Cobalt	7.86		mg/kg dry	0.415	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:46	KML
7440-50-8	Copper	22.6		mg/kg dry	2.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:46	KML



### Sample Information

**Client Sample ID:** SV-06

**York Sample ID:** 20I0612-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	<b>Iron</b>	<b>22500</b>		mg/kg dry	25.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:46	KML
7439-92-1	<b>Lead</b>	<b>30.9</b>	B	mg/kg dry	0.519	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:46	KML
7439-95-4	<b>Magnesium</b>	<b>6390</b>		mg/kg dry	5.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:46	KML
7439-96-5	<b>Manganese</b>	<b>712</b>		mg/kg dry	0.519	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:46	KML
7440-02-0	<b>Nickel</b>	<b>19.4</b>		mg/kg dry	1.04	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:46	KML
7440-09-7	<b>Potassium</b>	<b>1020</b>	B	mg/kg dry	5.19	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:46	KML
7782-49-2	Selenium	ND		mg/kg dry	2.59	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:46	KML
7440-22-4	Silver	ND		mg/kg dry	0.519	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:46	KML
7440-23-5	<b>Sodium</b>	<b>128</b>	B	mg/kg dry	51.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:46	KML
7440-28-0	Thallium	ND		mg/kg dry	2.59	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:46	KML
7440-62-2	<b>Vanadium</b>	<b>12.0</b>		mg/kg dry	1.04	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:46	KML
7440-66-6	<b>Zinc</b>	<b>57.0</b>		mg/kg dry	2.59	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:46	KML

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	<b>Mercury</b>	<b>0.139</b>		mg/kg dry	0.0311	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	09/16/2020 14:32	09/16/2020 17:42	SY

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	<b>* % Solids</b>	<b>96.4</b>		%	0.100	1	SM 2540G Certifications: CTDOH	09/16/2020 08:17	09/16/2020 17:02	SK



### Sample Information

**Client Sample ID:** HB-01

**York Sample ID:** 20I0612-15

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	94.6	189	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	94.6	189	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	94.6	189	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	94.6	189	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH





### Sample Information

**Client Sample ID:** HB-01

**York Sample ID:** 20I0612-15

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/kg dry	94.6	189	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	94.6	189	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	94.6	189	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	94.6	189	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
83-32-9	Acenaphthene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
98-86-2	Acetophenone	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
62-53-3	Aniline	ND		ug/kg dry	189	379	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
120-12-7	Anthracene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
1912-24-9	Atrazine	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
92-87-5	Benzidine	ND		ug/kg dry	189	379	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
65-85-0	Benzoic acid	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH



### Sample Information

**Client Sample ID:** HB-01

**York Sample ID:** 20I0612-15

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
105-60-2	Caprolactam	ND		ug/kg dry	94.6	189	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
86-74-8	Carbazole	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
218-01-9	Chrysene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
131-11-3	<b>Dimethyl phthalate</b>	<b>59.7</b>	J	ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
122-39-4	* Diphenylamine	ND		ug/kg dry	94.6	189	2	EPA 8270D Certifications:	09/18/2020 14:06	09/21/2020 15:55	KH
206-44-0	Fluoranthene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
86-73-7	Fluorene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
78-59-1	Isophorone	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH



### Sample Information

**Client Sample ID:** HB-01

**York Sample ID:** 20I0612-15

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 11, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
85-01-8	Phenanthrene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
108-95-2	Phenol	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
129-00-0	Pyrene	ND		ug/kg dry	47.4	94.6	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 15:55	KH
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
367-12-4	Surrogate: SURR: 2-Fluorophenol	67.6 %	20-108								
4165-62-2	Surrogate: SURR: Phenol-d5	73.2 %	23-114								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	72.6 %	22-108								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	71.4 %	21-113								
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	72.5 %	19-110								
1718-51-0	Surrogate: SURR: Terphenyl-d14	82.4 %	24-116								

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00188	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:45	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00188	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:45	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00188	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:45	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00188	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:45	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00188	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:45	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00188	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 11:45	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00188	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:45	CM



### Sample Information

**Client Sample ID:** HB-01

**York Sample ID:** 20I0612-15

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	Chlordane, total	ND		mg/kg dry	0.0375	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:45	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00188	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:45	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00188	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:45	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00188	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:45	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00188	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	09/21/2020 07:23	09/22/2020 11:45	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00188	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:45	CM
72-20-8	Endrin	ND		mg/kg dry	0.00188	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:45	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00188	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:45	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00188	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:45	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00188	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:45	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00188	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 11:45	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00188	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:45	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00188	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:45	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00939	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:45	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.0950	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 11:45	CM
	<b>Surrogate Recoveries</b>	<b>Result</b>					<b>Acceptance Range</b>			
2051-24-3	Surrogate: Decachlorobiphenyl	71.9 %					30-150			
877-09-8	Surrogate: Tetrachloro-m-xylene	67.9 %					30-150			

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	BJ



### Sample Information

**Client Sample ID:** HB-01

**York Sample ID:** 20I0612-15

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	BJ
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	BJ
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:27	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications:	09/21/2020 07:23	09/22/2020 08:27	BJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	58.5 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	61.5 %	30-140							

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	<b>Aluminum</b>	<b>10400</b>		mg/kg dry	5.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:54	KML
7440-36-0	Antimony	ND		mg/kg dry	2.85	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:54	KML
7440-38-2	<b>Arsenic</b>	<b>4.32</b>		mg/kg dry	1.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:54	KML
7440-39-3	<b>Barium</b>	<b>54.8</b>		mg/kg dry	2.85	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:54	KML
7440-41-7	<b>Beryllium</b>	<b>0.134</b>		mg/kg dry	0.057	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:54	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.342	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:54	KML
7440-70-2	<b>Calcium</b>	<b>9340</b>		mg/kg dry	5.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:54	KML
7440-47-3	<b>Chromium</b>	<b>11.9</b>		mg/kg dry	0.571	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:54	KML
7440-48-4	<b>Cobalt</b>	<b>5.75</b>		mg/kg dry	0.457	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:54	KML
7440-50-8	<b>Copper</b>	<b>26.9</b>		mg/kg dry	2.28	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:54	KML
7439-89-6	<b>Iron</b>	<b>16900</b>		mg/kg dry	28.5	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:54	KML



### Sample Information

**Client Sample ID:** HB-01

**York Sample ID:** 20I0612-15

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	124	B	mg/kg dry	0.571	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:54	KML
7439-95-4	Magnesium	4660		mg/kg dry	5.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:54	KML
7439-96-5	Manganese	483		mg/kg dry	0.571	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:54	KML
7440-02-0	Nickel	14.5		mg/kg dry	1.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:54	KML
7440-09-7	Potassium	1220	B	mg/kg dry	5.71	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:54	KML
7782-49-2	Selenium	ND		mg/kg dry	2.85	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:54	KML
7440-22-4	Silver	ND		mg/kg dry	0.571	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:54	KML
7440-23-5	Sodium	144	B	mg/kg dry	57.1	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:54	KML
7440-28-0	Thallium	ND		mg/kg dry	2.85	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:54	KML
7440-62-2	Vanadium	13.2		mg/kg dry	1.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:54	KML
7440-66-6	Zinc	79.9		mg/kg dry	2.85	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 15:54	KML

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	2.89		mg/kg dry	0.0342	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	09/16/2020 14:32	09/16/2020 17:51	SY

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	87.6		%	0.100	1	SM 2540G Certifications: CTDOH	09/16/2020 08:17	09/16/2020 17:02	SK





### Sample Information

**Client Sample ID:** HB-02

**York Sample ID:** 20I0612-16

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	88.8	177	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	88.8	177	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	88.8	177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	88.8	177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH



### Sample Information

**Client Sample ID:** HB-02

**York Sample ID:** 20I0612-16

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/kg dry	88.8	177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	88.8	177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	88.8	177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	88.8	177	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
83-32-9	Acenaphthene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
98-86-2	Acetophenone	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
62-53-3	Aniline	ND		ug/kg dry	178	355	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
120-12-7	Anthracene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
1912-24-9	Atrazine	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
92-87-5	Benzidine	ND		ug/kg dry	178	355	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
65-85-0	Benzoic acid	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH



### Sample Information

**Client Sample ID:** HB-02

**York Sample ID:** 20I0612-16

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
105-60-2	Caprolactam	ND		ug/kg dry	88.8	177	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
86-74-8	Carbazole	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
218-01-9	Chrysene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
131-11-3	<b>Dimethyl phthalate</b>	<b>46.8</b>	J	ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
122-39-4	* Diphenylamine	ND		ug/kg dry	88.8	177	2	EPA 8270D Certifications:	09/18/2020 14:06	09/21/2020 16:24	KH
206-44-0	Fluoranthene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
86-73-7	Fluorene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
78-59-1	Isophorone	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH



## Sample Information

**Client Sample ID:** HB-02

**York Sample ID:** 20I0612-16

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 11, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
85-01-8	Phenanthrene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
108-95-2	Phenol	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
129-00-0	Pyrene	ND		ug/kg dry	44.5	88.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:24	KH
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
367-12-4	Surrogate: SURR: 2-Fluorophenol	57.9 %			20-108						
4165-62-2	Surrogate: SURR: Phenol-d5	59.8 %			23-114						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	60.8 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	60.0 %			21-113						
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	66.2 %			19-110						
1718-51-0	Surrogate: SURR: Terphenyl-d14	68.2 %			24-116						

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:03	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:03	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:03	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:03	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:03	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 12:03	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:03	CM



### Sample Information

**Client Sample ID:** HB-02

**York Sample ID:** 20I0612-16

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	Chlordane, total	ND		mg/kg dry	0.0352	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:03	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:03	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:03	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:03	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	09/21/2020 07:23	09/22/2020 12:03	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:03	CM
72-20-8	Endrin	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:03	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:03	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:03	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:03	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 12:03	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:03	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00176	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:03	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00881	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:03	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.0892	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:03	CM
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
2051-24-3	Surrogate: Decachlorobiphenyl	70.4 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	66.4 %	30-150							

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:40	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:40	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:40	BJ



### Sample Information

**Client Sample ID:** HB-02

**York Sample ID:** 20I0612-16

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:40	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:40	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:40	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:40	BJ
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:40	BJ
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:40	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications:	09/21/2020 07:23	09/22/2020 08:40	BJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	54.5 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	51.5 %	30-140							

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	<b>Aluminum</b>	<b>12100</b>		mg/kg dry	5.36	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:01	KML
7440-36-0	Antimony	ND		mg/kg dry	2.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:01	KML
7440-38-2	<b>Arsenic</b>	<b>4.39</b>		mg/kg dry	1.61	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:01	KML
7440-39-3	<b>Barium</b>	<b>34.8</b>		mg/kg dry	2.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:01	KML
7440-41-7	<b>Beryllium</b>	<b>0.111</b>		mg/kg dry	0.054	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:01	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.321	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:01	KML
7440-70-2	<b>Calcium</b>	<b>7000</b>		mg/kg dry	5.36	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:01	KML
7440-47-3	<b>Chromium</b>	<b>12.4</b>		mg/kg dry	0.536	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:01	KML
7440-48-4	<b>Cobalt</b>	<b>6.81</b>		mg/kg dry	0.429	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:01	KML
7440-50-8	<b>Copper</b>	<b>20.7</b>		mg/kg dry	2.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:01	KML
7439-89-6	<b>Iron</b>	<b>20300</b>		mg/kg dry	26.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:01	KML





### Sample Information

**Client Sample ID:** HB-02

**York Sample ID:** 20I0612-16

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	41.6	B	mg/kg dry	0.536	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:01	KML
7439-95-4	Magnesium	5360		mg/kg dry	5.36	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:01	KML
7439-96-5	Manganese	532		mg/kg dry	0.536	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:01	KML
7440-02-0	Nickel	16.9		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:01	KML
7440-09-7	Potassium	1470	B	mg/kg dry	5.36	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:01	KML
7782-49-2	Selenium	ND		mg/kg dry	2.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:01	KML
7440-22-4	Silver	ND		mg/kg dry	0.536	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:01	KML
7440-23-5	Sodium	619	B	mg/kg dry	53.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:01	KML
7440-28-0	Thallium	ND		mg/kg dry	2.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:01	KML
7440-62-2	Vanadium	14.0		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:01	KML
7440-66-6	Zinc	44.3		mg/kg dry	2.68	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:01	KML

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	1.36		mg/kg dry	0.0321	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	09/16/2020 14:32	09/16/2020 18:03	SY

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	93.3		%	0.100	1	SM 2540G Certifications: CTDOH	09/16/2020 08:17	09/16/2020 17:02	SK



### Sample Information

**Client Sample ID:** GSB-01 0-2

**York Sample ID:** 20I0612-17

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	16800		mg/kg dry	5.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:19	KML
7440-36-0	Antimony	ND		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:19	KML
7440-38-2	Arsenic	7.12		mg/kg dry	1.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:19	KML
7440-39-3	Barium	60.2		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:19	KML
7440-41-7	Beryllium	0.111		mg/kg dry	0.056	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:19	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.335	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:19	KML
7440-70-2	Calcium	804		mg/kg dry	5.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:19	KML
7440-47-3	Chromium	15.7		mg/kg dry	0.558	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:19	KML
7440-48-4	Cobalt	8.81		mg/kg dry	0.447	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:19	KML
7440-50-8	Copper	19.9		mg/kg dry	2.23	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:19	KML
7439-89-6	Iron	23200		mg/kg dry	27.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:19	KML
7439-92-1	Lead	17.7	B	mg/kg dry	0.558	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:19	KML
7439-95-4	Magnesium	3740		mg/kg dry	5.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:19	KML
7439-96-5	Manganese	318		mg/kg dry	0.558	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:19	KML
7440-02-0	Nickel	18.7		mg/kg dry	1.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:19	KML
7440-09-7	Potassium	1380	B	mg/kg dry	5.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:19	KML
7782-49-2	Selenium	ND		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:19	KML
7440-22-4	Silver	ND		mg/kg dry	0.558	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:19	KML
7440-23-5	Sodium	175	B	mg/kg dry	55.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:19	KML
7440-28-0	Thallium	ND		mg/kg dry	2.79	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:19	KML
7440-62-2	Vanadium	21.9		mg/kg dry	1.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:19	KML



### Sample Information

**Client Sample ID:** GSB-01 0-2

**York Sample ID:** 20I0612-17

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	212		mg/kg dry	2.79	1	EPA 6010D	09/15/2020 16:56	09/21/2020 16:19	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0679		mg/kg dry	0.0335	1	EPA 7473	09/16/2020 14:32	09/16/2020 18:12	SY
							Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	89.6		%	0.100	1	SM 2540G	09/16/2020 08:17	09/16/2020 17:02	SK
							Certifications:	CTDOH		

### Sample Information

**Client Sample ID:** GSB-02 0-2

**York Sample ID:** 20I0612-18

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	13000		mg/kg dry	5.34	1	EPA 6010D	09/15/2020 16:56	09/21/2020 16:27	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-36-0	Antimony	ND		mg/kg dry	2.67	1	EPA 6010D	09/15/2020 16:56	09/21/2020 16:27	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-38-2	Arsenic	5.73		mg/kg dry	1.60	1	EPA 6010D	09/15/2020 16:56	09/21/2020 16:27	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-39-3	Barium	33.0		mg/kg dry	2.67	1	EPA 6010D	09/15/2020 16:56	09/21/2020 16:27	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	Beryllium	0.264		mg/kg dry	0.053	1	EPA 6010D	09/15/2020 16:56	09/21/2020 16:27	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	Cadmium	ND		mg/kg dry	0.320	1	EPA 6010D	09/15/2020 16:56	09/21/2020 16:27	KML
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		



### Sample Information

**Client Sample ID:** GSB-02 0-2

**York Sample ID:** 20I0612-18

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	549		mg/kg dry	5.34	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:27	KML
7440-47-3	Chromium	13.1		mg/kg dry	0.534	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:27	KML
7440-48-4	Cobalt	8.60		mg/kg dry	0.427	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:27	KML
7440-50-8	Copper	24.0		mg/kg dry	2.14	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:27	KML
7439-89-6	Iron	23000		mg/kg dry	26.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:27	KML
7439-92-1	Lead	16.9	B	mg/kg dry	0.534	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:27	KML
7439-95-4	Magnesium	4990		mg/kg dry	5.34	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:27	KML
7439-96-5	Manganese	578		mg/kg dry	0.534	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:27	KML
7440-02-0	Nickel	19.9		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:27	KML
7440-09-7	Potassium	1030	B	mg/kg dry	5.34	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:27	KML
7782-49-2	Selenium	ND		mg/kg dry	2.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:27	KML
7440-22-4	Silver	ND		mg/kg dry	0.534	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:27	KML
7440-23-5	Sodium	210	B	mg/kg dry	53.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:27	KML
7440-28-0	Thallium	ND		mg/kg dry	2.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:27	KML
7440-62-2	Vanadium	13.8		mg/kg dry	1.07	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:27	KML
7440-66-6	Zinc	49.2		mg/kg dry	2.67	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:27	KML

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0814		mg/kg dry	0.0320	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	09/16/2020 14:32	09/16/2020 18:41	SY

**Total Solids**

**Log-in Notes:**

**Sample Notes:**



**Sample Information**

**Client Sample ID:** GSB-02 0-2

**York Sample ID:** 20I0612-18

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	93.6		%	0.100	1	SM 2540G Certifications: CTDOH	09/15/2020 08:17	09/16/2020 17:02	SK

**Sample Information**

**Client Sample ID:** GSB-04 0-5

**York Sample ID:** 20I0612-19

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	12000		mg/kg dry	5.29	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:34	KML
7440-36-0	Antimony	ND		mg/kg dry	2.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:34	KML
7440-38-2	Arsenic	5.21		mg/kg dry	1.59	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:34	KML
7440-39-3	Barium	33.8		mg/kg dry	2.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:34	KML
7440-41-7	Beryllium	0.308		mg/kg dry	0.053	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:34	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.317	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:34	KML
7440-70-2	Calcium	993		mg/kg dry	5.29	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:34	KML
7440-47-3	Chromium	13.1		mg/kg dry	0.529	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:34	KML
7440-48-4	Cobalt	7.45		mg/kg dry	0.423	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:34	KML
7440-50-8	Copper	24.8		mg/kg dry	2.12	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:34	KML
7439-89-6	Iron	22900		mg/kg dry	26.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:34	KML
7439-92-1	Lead	15.1	B	mg/kg dry	0.529	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:34	KML
7439-95-4	Magnesium	5690		mg/kg dry	5.29	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:34	KML
7439-96-5	Manganese	609		mg/kg dry	0.529	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:34	KML



**Sample Information**

**Client Sample ID:** GSB-04 0-5

**York Sample ID:** 20I0612-19

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	Nickel	19.4		mg/kg dry	1.06	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:34	KML
7440-09-7	Potassium	1160	B	mg/kg dry	5.29	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:34	KML
7782-49-2	Selenium	ND		mg/kg dry	2.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:34	KML
7440-22-4	Silver	ND		mg/kg dry	0.529	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:34	KML
7440-23-5	Sodium	84.2	B	mg/kg dry	52.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:34	KML
7440-28-0	Thallium	ND		mg/kg dry	2.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:34	KML
7440-62-2	Vanadium	13.0		mg/kg dry	1.06	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:34	KML
7440-66-6	Zinc	49.7		mg/kg dry	2.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:34	KML

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0317	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	09/16/2020 14:32	09/16/2020 18:49	SY

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	94.5		%	0.100	1	SM 2540G Certifications: CTDOH	09/16/2020 08:17	09/16/2020 17:02	SK

**Sample Information**

**Client Sample ID:** GSB-09 2-3

**York Sample ID:** 20I0612-20

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**





### Sample Information

**Client Sample ID:** GSB-09 2-3

**York Sample ID:** 20I0612-20

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	<b>Aluminum</b>	<b>14400</b>		mg/kg dry	5.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:41	KML
7440-36-0	Antimony	ND		mg/kg dry	2.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:41	KML
7440-38-2	<b>Arsenic</b>	<b>5.74</b>		mg/kg dry	1.72	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:41	KML
7440-39-3	<b>Barium</b>	<b>59.2</b>		mg/kg dry	2.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:41	KML
7440-41-7	<b>Beryllium</b>	<b>0.224</b>		mg/kg dry	0.057	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:41	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.344	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:41	KML
7440-70-2	<b>Calcium</b>	<b>629</b>		mg/kg dry	5.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:41	KML
7440-47-3	<b>Chromium</b>	<b>13.0</b>		mg/kg dry	0.573	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:41	KML
7440-48-4	<b>Cobalt</b>	<b>7.47</b>		mg/kg dry	0.458	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:41	KML
7440-50-8	<b>Copper</b>	<b>25.0</b>		mg/kg dry	2.29	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:41	KML
7439-89-6	<b>Iron</b>	<b>20200</b>		mg/kg dry	28.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:41	KML
7439-92-1	<b>Lead</b>	<b>44.6</b>	B	mg/kg dry	0.573	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:41	KML
7439-95-4	<b>Magnesium</b>	<b>3720</b>		mg/kg dry	5.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:41	KML
7439-96-5	<b>Manganese</b>	<b>539</b>		mg/kg dry	0.573	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:41	KML
7440-02-0	<b>Nickel</b>	<b>17.4</b>		mg/kg dry	1.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:41	KML
7440-09-7	<b>Potassium</b>	<b>1250</b>	B	mg/kg dry	5.73	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:41	KML
7782-49-2	Selenium	ND		mg/kg dry	2.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:41	KML
7440-22-4	Silver	ND		mg/kg dry	0.573	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:41	KML
7440-23-5	<b>Sodium</b>	<b>587</b>	B	mg/kg dry	57.3	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:41	KML
7440-28-0	Thallium	ND		mg/kg dry	2.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:41	KML
7440-62-2	<b>Vanadium</b>	<b>16.3</b>		mg/kg dry	1.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:41	KML
7440-66-6	<b>Zinc</b>	<b>58.7</b>		mg/kg dry	2.86	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:56	09/21/2020 16:41	KML



### Sample Information

**Client Sample ID:** GSB-09 2-3

**York Sample ID:** 20I0612-20

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.300		mg/kg dry	0.0344	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	09/16/2020 14:32	09/16/2020 18:58	SY

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	87.3		%	0.100	1	SM 2540G Certifications: CTDOH	09/16/2020 08:17	09/16/2020 17:02	SK

### Sample Information

**Client Sample ID:** GSB-11 0-5

**York Sample ID:** 20I0612-21

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 11, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	9410		mg/kg dry	5.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:49	KML
7440-36-0	Antimony	ND		mg/kg dry	2.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:49	KML
7440-38-2	Arsenic	6.65		mg/kg dry	1.55	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:49	KML
7440-39-3	Barium	41.9		mg/kg dry	2.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:49	KML
7440-41-7	Beryllium	0.215		mg/kg dry	0.052	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:49	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.310	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:49	KML
7440-70-2	Calcium	27000	B	mg/kg dry	5.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:49	KML
7440-47-3	Chromium	12.4	B	mg/kg dry	0.516	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:49	KML
7440-48-4	Cobalt	7.45		mg/kg dry	0.413	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:49	KML



### Sample Information

**Client Sample ID:** GSB-11 0-5

**York Sample ID:** 20I0612-21

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 11, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	<b>Copper</b>	<b>27.0</b>		mg/kg dry	2.06	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:49	KML
7439-89-6	<b>Iron</b>	<b>19900</b>		mg/kg dry	25.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:49	KML
7439-92-1	<b>Lead</b>	<b>47.4</b>		mg/kg dry	0.516	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:49	KML
7439-95-4	<b>Magnesium</b>	<b>7100</b>		mg/kg dry	5.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:49	KML
7439-96-5	<b>Manganese</b>	<b>588</b>		mg/kg dry	0.516	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:49	KML
7440-02-0	<b>Nickel</b>	<b>18.4</b>		mg/kg dry	1.03	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:49	KML
7440-09-7	<b>Potassium</b>	<b>1030</b>	B	mg/kg dry	5.16	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:49	KML
7782-49-2	Selenium	ND		mg/kg dry	2.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:49	KML
7440-22-4	Silver	ND		mg/kg dry	0.516	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:49	KML
7440-23-5	<b>Sodium</b>	<b>361</b>	B	mg/kg dry	51.6	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:49	KML
7440-28-0	Thallium	ND		mg/kg dry	2.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:49	KML
7440-62-2	<b>Vanadium</b>	<b>16.6</b>		mg/kg dry	1.03	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:49	KML
7440-66-6	<b>Zinc</b>	<b>60.8</b>		mg/kg dry	2.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:49	KML

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	<b>Mercury</b>	<b>0.628</b>		mg/kg dry	0.0310	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	09/16/2020 14:32	09/16/2020 19:06	SY

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	<b>* % Solids</b>	<b>96.9</b>		%	0.100	1	SM 2540G Certifications: CTDOH	09/16/2020 08:17	09/16/2020 17:02	SK



### Sample Information

**Client Sample ID:** GSB-14 0-2

**York Sample ID:** 20I0612-22

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 11, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	9450		mg/kg dry	5.27	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:56	KML
7440-36-0	Antimony	ND		mg/kg dry	2.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:56	KML
7440-38-2	Arsenic	7.56		mg/kg dry	1.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:56	KML
7440-39-3	Barium	43.6		mg/kg dry	2.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:56	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.053	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:56	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.316	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:56	KML
7440-70-2	Calcium	29900	B	mg/kg dry	5.27	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:56	KML
7440-47-3	Chromium	15.2	B	mg/kg dry	0.527	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:56	KML
7440-48-4	Cobalt	8.96		mg/kg dry	0.422	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:56	KML
7440-50-8	Copper	31.7		mg/kg dry	2.11	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:56	KML
7439-89-6	Iron	23500		mg/kg dry	26.4	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:56	KML
7439-92-1	Lead	62.0		mg/kg dry	0.527	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:56	KML
7439-95-4	Magnesium	12600		mg/kg dry	5.27	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:56	KML
7439-96-5	Manganese	722		mg/kg dry	0.527	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:56	KML
7440-02-0	Nickel	21.8		mg/kg dry	1.05	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:56	KML
7440-09-7	Potassium	991	B	mg/kg dry	5.27	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:56	KML
7782-49-2	Selenium	ND		mg/kg dry	2.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:56	KML
7440-22-4	Silver	ND		mg/kg dry	0.527	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:56	KML
7440-23-5	Sodium	221	B	mg/kg dry	52.7	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:56	KML
7440-28-0	Thallium	ND		mg/kg dry	2.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:56	KML
7440-62-2	Vanadium	21.0		mg/kg dry	1.05	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:56	KML
7440-66-6	Zinc	108		mg/kg dry	2.64	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 21:56	KML



**Sample Information**

**Client Sample ID:** GSB-14 0-2

**York Sample ID:** 20I0612-22

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 11, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.339		mg/kg dry	0.0316	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	09/16/2020 14:32	09/16/2020 19:16	SY

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	94.9		%	0.100	1	SM 2540G Certifications: CTDOH	09/16/2020 08:17	09/16/2020 17:02	SK

**Sample Information**

**Client Sample ID:** GSB-16 0-5

**York Sample ID:** 20I0612-23

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 11, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	12300		mg/kg dry	6.49	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:03	KML
7440-36-0	Antimony	ND		mg/kg dry	3.25	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:03	KML
7440-38-2	Arsenic	10.7		mg/kg dry	1.95	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:03	KML
7440-39-3	Barium	344		mg/kg dry	3.25	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:03	KML
7440-41-7	Beryllium	ND		mg/kg dry	0.065	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:03	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.390	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:03	KML
7440-70-2	Calcium	8690	B	mg/kg dry	6.49	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:03	KML
7440-47-3	Chromium	16.9	B	mg/kg dry	0.649	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:03	KML
7440-48-4	Cobalt	9.97		mg/kg dry	0.519	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:03	KML



### Sample Information

**Client Sample ID:** GSB-16 0-5

**York Sample ID:** 20I0612-23

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	41.6		mg/kg dry	2.60	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:03	KML
7439-89-6	Iron	19500		mg/kg dry	32.5	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:03	KML
7439-92-1	Lead	229		mg/kg dry	0.649	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:03	KML
7439-95-4	Magnesium	3600		mg/kg dry	6.49	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:03	KML
7439-96-5	Manganese	605		mg/kg dry	0.649	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:03	KML
7440-02-0	Nickel	22.9		mg/kg dry	1.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:03	KML
7440-09-7	Potassium	1040	B	mg/kg dry	6.49	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:03	KML
7782-49-2	Selenium	ND		mg/kg dry	3.25	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:03	KML
7440-22-4	Silver	ND		mg/kg dry	0.649	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:03	KML
7440-23-5	Sodium	744	B	mg/kg dry	64.9	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:03	KML
7440-28-0	Thallium	ND		mg/kg dry	3.25	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:03	KML
7440-62-2	Vanadium	21.8		mg/kg dry	1.30	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:03	KML
7440-66-6	Zinc	72.4		mg/kg dry	3.25	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:03	KML

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	1.29		mg/kg dry	0.0390	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	09/16/2020 14:32	09/16/2020 19:24	SY

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	77.0		%	0.100	1	SM 2540G Certifications: CTDOH	09/16/2020 08:17	09/16/2020 17:02	SK





### Sample Information

**Client Sample ID:** GSB-03 5

**York Sample ID:** 20I0612-24

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/17/2020 06:14	09/17/2020 20:31	TMP
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	09/17/2020 06:14	09/17/2020 20:31	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.062	0.12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
78-93-3	2-Butanone	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
591-78-6	2-Hexanone	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP



### Sample Information

**Client Sample ID:** GSB-03 5

**York Sample ID:** 20I0612-24

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	0.013		mg/kg dry	0.0062	0.012	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
107-02-8	Acrolein	ND		mg/kg dry	0.0062	0.012	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
71-43-2	Benzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
75-25-2	Bromoform	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
74-83-9	Bromomethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
75-00-3	Chloroethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
67-66-3	Chloroform	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
74-87-3	Chloromethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
110-82-7	Cyclohexane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
74-95-3	Dibromomethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP



### Sample Information

**Client Sample ID:** GSB-03 5

**York Sample ID:** 20I0612-24

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
75-09-2	Methylene chloride	ND		mg/kg dry	0.0062	0.012	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
95-47-6	o-Xylene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0062	0.012	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
100-42-5	Styrene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
108-88-3	Toluene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:31	TMP
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0093	0.019	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/17/2020 06:14	09/17/2020 20:31	TMP
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	111 %			77-125						
2037-26-5	Surrogate: SURRE: Toluene-d8	102 %			85-120						



### Sample Information

**Client Sample ID:** GSB-03 5

**York Sample ID:** 20I0612-24

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Volatile Organics, 8260 - Comprehensive**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	97.0 %			76-130						

**Total Solids**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	93.6		%	0.100	1	SM 2540G Certifications: CTDOH	09/16/2020 08:17	09/16/2020 17:02	SK

### Sample Information

**Client Sample ID:** GSB-05 1

**York Sample ID:** 20I0612-25

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Volatile Organics, 8260 - Comprehensive**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/17/2020 06:04	09/17/2020 22:33	TMP
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	09/17/2020 06:04	09/17/2020 22:33	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP



### Sample Information

**Client Sample ID:** GSB-05 1

**York Sample ID:** 20I0612-25

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.051	0.10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
78-93-3	2-Butanone	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
591-78-6	2-Hexanone	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
67-64-1	<b>Acetone</b>	<b>0.017</b>	CCV-E	mg/kg dry	0.0051	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
107-02-8	Acrolein	ND		mg/kg dry	0.0051	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
71-43-2	Benzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
75-25-2	Bromoform	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
74-83-9	Bromomethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP



### Sample Information

**Client Sample ID:** GSB-05 1

**York Sample ID:** 20I0612-25

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
67-66-3	Chloroform	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
74-87-3	Chloromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
110-82-7	Cyclohexane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
74-95-3	Dibromomethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
79-20-9	Methyl acetate	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
75-09-2	Methylene chloride	ND		mg/kg dry	0.0051	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
95-47-6	o-Xylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0051	0.010	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
100-42-5	Styrene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP





### Sample Information

**Client Sample ID:** GSB-05 1

**York Sample ID:** 20I0612-25

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
108-88-3	Toluene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0026	0.0051	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:04	09/17/2020 22:33	TMP
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0077	0.015	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/17/2020 06:04	09/17/2020 22:33	TMP
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: <i>SURR: 1,2-Dichloroethane-d4</i>	90.6 %	77-125								
2037-26-5	Surrogate: <i>SURR: Toluene-d8</i>	101 %	85-120								
460-00-4	Surrogate: <i>SURR: p-Bromofluorobenzene</i>	105 %	76-130								

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	98.7		%	0.100	1	SM 2540G Certifications: CTDOH	09/16/2020 08:17	09/16/2020 17:02	SK

### Sample Information

**Client Sample ID:** GSB-09 2.5

**York Sample ID:** 20I0612-26

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**



### Sample Information

**Client Sample ID:** GSB-09 2.5

**York Sample ID:** 20I0612-26

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/17/2020 06:14	09/17/2020 20:58	TMP
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	09/17/2020 06:14	09/17/2020 20:58	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.044	0.087	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
78-93-3	2-Butanone	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
591-78-6	2-Hexanone	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
67-64-1	Acetone	ND		mg/kg dry	0.0044	0.0087	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP



### Sample Information

**Client Sample ID:** GSB-09 2.5

**York Sample ID:** 20I0612-26

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-02-8	Acrolein	ND		mg/kg dry	0.0044	0.0087	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
71-43-2	Benzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
75-25-2	Bromoform	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
74-83-9	Bromomethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
75-00-3	Chloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
67-66-3	Chloroform	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
74-87-3	Chloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
110-82-7	Cyclohexane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
74-95-3	Dibromomethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
79-20-9	Methyl acetate	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP



### Sample Information

**Client Sample ID:** GSB-09 2.5

**York Sample ID:** 20I0612-26

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
75-09-2	Methylene chloride	ND		mg/kg dry	0.0044	0.0087	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
95-47-6	o-Xylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0044	0.0087	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
100-42-5	Styrene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
108-88-3	Toluene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/17/2020 06:14	09/17/2020 20:58	TMP
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0065	0.013	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/17/2020 06:14	09/17/2020 20:58	TMP
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	109 %	77-125								
2037-26-5	Surrogate: SURR: Toluene-d8	101 %	85-120								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	96.7 %	76-130								



### Sample Information

**Client Sample ID:** GSB-09 2.5

**York Sample ID:** 20I0612-26

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	87.5		%	0.100	1	SM 2540G	09/16/2020 08:17	09/16/2020 17:02	SK
							Certifications:	CTDOH		

### Sample Information

**Client Sample ID:** GSB-12 4

**York Sample ID:** 20I0612-27

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/18/2020 06:57	09/18/2020 14:53	TMP
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	09/18/2020 06:57	09/18/2020 14:53	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP



### Sample Information

**Client Sample ID:** GSB-12 4

**York Sample ID:** 20I0612-27

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.055	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
78-93-3	2-Butanone	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
67-64-1	<b>Acetone</b>	<b>0.012</b>		mg/kg dry	0.0055	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
107-02-8	Acrolein	ND		mg/kg dry	0.0055	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP





### Sample Information

**Client Sample ID:** GSB-12 4

**York Sample ID:** 20I0612-27

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 11, 2020 12:00 am

09/15/2020

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
75-09-2	Methylene chloride	ND		mg/kg dry	0.0055	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0055	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP



### Sample Information

**Client Sample ID:** GSB-12 4

**York Sample ID:** 20I0612-27

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 11, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

#### Volatile Organics, 8260 - Comprehensive

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 14:53	TMP
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0082	0.016	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/18/2020 06:57	09/18/2020 14:53	TMP
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	110 %	77-125								
2037-26-5	Surrogate: SURR: Toluene-d8	101 %	85-120								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	95.5 %	76-130								

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	97.7		%	0.100	1	SM 2540G Certifications: CTDOH	09/16/2020 08:17	09/16/2020 17:02	SK

### Sample Information

**Client Sample ID:** GSB-02 10-12

**York Sample ID:** 20I0612-28

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

#### Semi-Volatiles, 8270 - Comprehensive

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH



### Sample Information

**Client Sample ID:** GSB-02 10-12

**York Sample ID:** 20I0612-28

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	85.3	170	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	85.3	170	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	85.3	170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	85.3	170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	85.3	170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH



### Sample Information

**Client Sample ID:** GSB-02 10-12

**York Sample ID:** 20I0612-28

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	85.3	170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	85.3	170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	85.3	170	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
83-32-9	Acenaphthene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
98-86-2	Acetophenone	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
62-53-3	Aniline	ND		ug/kg dry	171	342	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
120-12-7	Anthracene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
1912-24-9	Atrazine	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
92-87-5	Benzidine	ND		ug/kg dry	171	342	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
65-85-0	Benzoic acid	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH



## Sample Information

**Client Sample ID:** GSB-02 10-12

**York Sample ID:** 20I0612-28

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
105-60-2	Caprolactam	ND		ug/kg dry	85.3	170	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
86-74-8	Carbazole	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
218-01-9	Chrysene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
131-11-3	<b>Dimethyl phthalate</b>	<b>43.7</b>	J	ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
122-39-4	* Diphenylamine	ND		ug/kg dry	85.3	170	2	EPA 8270D Certifications:	09/18/2020 14:06	09/21/2020 16:53	KH
206-44-0	Fluoranthene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
86-73-7	Fluorene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
78-59-1	Isophorone	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
91-20-3	Naphthalene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH



### Sample Information

**Client Sample ID:** GSB-02 10-12

**York Sample ID:** 20I0612-28

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
85-01-8	Phenanthrene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
108-95-2	Phenol	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
129-00-0	Pyrene	ND		ug/kg dry	42.8	85.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/18/2020 14:06	09/21/2020 16:53	KH
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
367-12-4	Surrogate: SURR: 2-Fluorophenol	63.2 %	20-108								
4165-62-2	Surrogate: SURR: Phenol-d5	69.0 %	23-114								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	65.4 %	22-108								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	68.2 %	21-113								
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	77.6 %	19-110								
1718-51-0	Surrogate: SURR: Terphenyl-d14	74.7 %	24-116								

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00169	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:21	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00169	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:21	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00169	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:21	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00169	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:21	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00169	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:21	CM
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00169	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 12:21	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00169	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:21	CM
57-74-9	Chlordane, total	ND		mg/kg dry	0.0338	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:21	CM





### Sample Information

**Client Sample ID:** GSB-02 10-12

**York Sample ID:** 20I0612-28

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-86-8	delta-BHC	ND		mg/kg dry	0.00169	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:21	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00169	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:21	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00169	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:21	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00169	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	09/21/2020 07:23	09/22/2020 12:21	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00169	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:21	CM
72-20-8	Endrin	ND		mg/kg dry	0.00169	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:21	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00169	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:21	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00169	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:21	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00169	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:21	CM
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00169	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	09/21/2020 07:23	09/22/2020 12:21	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00169	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:21	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00169	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:21	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.00844	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:21	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.0854	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 12:21	CM

**Surrogate Recoveries**

**Result**

**Acceptance Range**

2051-24-3	Surrogate: Decachlorobiphenyl	72.3 %		30-150
877-09-8	Surrogate: Tetrachloro-m-xylene	68.3 %		30-150

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:54	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:54	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:54	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:54	BJ



### Sample Information

**Client Sample ID:** GSB-02 10-12

**York Sample ID:** 20I0612-28

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:54	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:54	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:54	BJ
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:54	BJ
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications: NELAC-NY10854,NJDEP,PADEP	09/21/2020 07:23	09/22/2020 08:54	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0170	1	EPA 8082A Certifications:	09/21/2020 07:23	09/22/2020 08:54	BJ
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	54.5 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	53.0 %	30-140							

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	<b>Aluminum</b>	<b>7660</b>		mg/kg dry	5.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:10	KML
7440-36-0	Antimony	ND		mg/kg dry	2.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:10	KML
7440-38-2	<b>Arsenic</b>	<b>6.56</b>		mg/kg dry	1.55	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:10	KML
7440-39-3	<b>Barium</b>	<b>35.9</b>		mg/kg dry	2.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:10	KML
7440-41-7	<b>Beryllium</b>	<b>0.179</b>		mg/kg dry	0.052	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:10	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.309	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:10	KML
7440-70-2	<b>Calcium</b>	<b>1360</b>	B	mg/kg dry	5.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:10	KML
7440-47-3	<b>Chromium</b>	<b>12.9</b>	B	mg/kg dry	0.515	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:10	KML
7440-48-4	<b>Cobalt</b>	<b>8.73</b>		mg/kg dry	0.412	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:10	KML
7440-50-8	<b>Copper</b>	<b>26.6</b>		mg/kg dry	2.06	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:10	KML
7439-89-6	<b>Iron</b>	<b>21100</b>		mg/kg dry	25.8	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:10	KML
7439-92-1	<b>Lead</b>	<b>14.7</b>		mg/kg dry	0.515	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:10	KML



**Sample Information**

**Client Sample ID:** GSB-02 10-12

**York Sample ID:** 20I0612-28

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	5820		mg/kg dry	5.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:10	KML
7439-96-5	Manganese	654		mg/kg dry	0.515	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:10	KML
7440-02-0	Nickel	20.3		mg/kg dry	1.03	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:10	KML
7440-09-7	Potassium	882	B	mg/kg dry	5.15	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:10	KML
7782-49-2	Selenium	ND		mg/kg dry	2.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:10	KML
7440-22-4	Silver	ND		mg/kg dry	0.515	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:10	KML
7440-23-5	Sodium	165	B	mg/kg dry	51.5	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:10	KML
7440-28-0	Thallium	ND		mg/kg dry	2.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:10	KML
7440-62-2	Vanadium	12.2		mg/kg dry	1.03	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:10	KML
7440-66-6	Zinc	54.5		mg/kg dry	2.58	1	EPA 6010D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/15/2020 16:57	09/16/2020 22:10	KML

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0309	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	09/16/2020 14:32	09/16/2020 19:33	SY

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	97.1		%	0.100	1	SM 2540G Certifications: CTDOH	09/16/2020 08:17	09/16/2020 17:02	SK

**Sample Information**

**Client Sample ID:** GSB-02 11

**York Sample ID:** 20I0612-29

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------



### Sample Information

**Client Sample ID:** GSB-02 11

**York Sample ID:** 20I0612-29

<u>York Project (SDG) No.</u> 20I0612	<u>Client Project ID</u> 20-0213	<u>Matrix</u> Soil	<u>Collection Date/Time</u> September 10, 2020 12:00 am	<u>Date Received</u> 09/15/2020
--	-------------------------------------	-----------------------	--	------------------------------------

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/18/2020 06:57	09/18/2020 15:20	TMP
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	09/18/2020 06:57	09/18/2020 15:20	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.054	0.11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
78-93-3	2-Butanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP



### Sample Information

**Client Sample ID:** GSB-02 11

**York Sample ID:** 20I0612-29

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	0.0058	J	mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
107-02-8	Acrolein	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP



### Sample Information

**Client Sample ID:** GSB-02 11

**York Sample ID:** 20I0612-29

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

20I0612

20-0213

Soil

September 10, 2020 12:00 am

09/15/2020

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
75-09-2	Methylene chloride	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0054	0.011	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/18/2020 06:57	09/18/2020 15:20	TMP
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0081	0.016	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/18/2020 06:57	09/18/2020 15:20	TMP
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	110 %		77-125							
2037-26-5	Surrogate: SURRE: Toluene-d8	102 %		85-120							





Sample Information

Client Sample ID: GSB-02 11

York Sample ID: 20I0612-29

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 20I0612, 20-0213, Soil, September 10, 2020 12:00 am, 09/15/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 460-00-4, Surrogate: SURRE: p-Bromofluorobenzene, 95.9 %, 76-130

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: solids, \* % Solids, 95.2, %, 0.100, 1, SM 2540G, 09/16/2020 08:17, 09/16/2020 17:02, SK

Sample Information

Client Sample ID: TB-20200911

York Sample ID: 20I0612-31

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 20I0612, 20-0213, Water, September 11, 2020 12:00 am, 09/15/2020

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Multiple rows for various compounds like 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, etc.



### Sample Information

**Client Sample ID:** TB-20200911

**York Sample ID:** 20I0612-31

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Water

September 11, 2020 12:00 am

09/15/2020

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP



### Sample Information

**Client Sample ID:** TB-20200911

**York Sample ID:** 20I0612-31

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Water

September 11, 2020 12:00 am

09/15/2020

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP



### Sample Information

**Client Sample ID:** TB-20200911

**York Sample ID:** 20I0612-31

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0612

20-0213

Water

September 11, 2020 12:00 am

09/15/2020

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	09/16/2020 06:19	09/17/2020 12:34	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	09/16/2020 06:19	09/17/2020 12:34	TMP
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	104 %	69-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	103 %	81-117								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	98.3 %	79-122								



## Analytical Batch Summary

**Batch ID:** BI00798      **Preparation Method:** EPA 3050B      **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
20I0612-01	GSB-03 0-5	09/15/20
20I0612-02	GSB-05 0-2	09/15/20
20I0612-03	GSB-06 0-2	09/15/20
20I0612-04	GSB-07 0-5	09/15/20
20I0612-05	GSB-08 0-2	09/15/20
20I0612-06	GSB-10 0-5	09/15/20
20I0612-07	GSB-12 0-5	09/15/20
20I0612-08	GSB-13 0-2	09/15/20
20I0612-09	GSB-15 0-5	09/15/20
20I0612-10	SV-02	09/15/20
20I0612-11	SV-03	09/15/20
20I0612-12	SV-04	09/15/20
20I0612-13	SV-05	09/15/20
20I0612-14	SV-06	09/15/20
20I0612-15	HB-01	09/15/20
20I0612-16	HB-02	09/15/20
20I0612-17	GSB-01 0-2	09/15/20
20I0612-18	GSB-02 0-2	09/15/20
20I0612-19	GSB-04 0-5	09/15/20
20I0612-20	GSB-09 2-3	09/15/20
BI00798-BLK1	Blank	09/15/20
BI00798-DUP1	Duplicate	09/15/20
BI00798-MS1	Matrix Spike	09/15/20
BI00798-PS1	Post Spike	09/15/20
BI00798-SRM1	Reference	09/15/20

**Batch ID:** BI00799      **Preparation Method:** EPA 3050B      **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
20I0612-21	GSB-11 0-5	09/15/20
20I0612-22	GSB-14 0-2	09/15/20
20I0612-23	GSB-16 0-5	09/15/20
20I0612-28	GSB-02 10-12	09/15/20
BI00799-BLK1	Blank	09/15/20
BI00799-SRM1	Reference	09/15/20

**Batch ID:** BI00827      **Preparation Method:** % Solids Prep      **Prepared By:** WJM

YORK Sample ID	Client Sample ID	Preparation Date
20I0612-01	GSB-03 0-5	09/16/20
20I0612-02	GSB-05 0-2	09/16/20
20I0612-03	GSB-06 0-2	09/16/20
20I0612-04	GSB-07 0-5	09/16/20
20I0612-05	GSB-08 0-2	09/16/20
20I0612-06	GSB-10 0-5	09/16/20



20I0612-07	GSB-12 0-5	09/16/20
20I0612-08	GSB-13 0-2	09/16/20
20I0612-09	GSB-15 0-5	09/16/20
20I0612-10	SV-02	09/16/20

**Batch ID:** BI00828      **Preparation Method:** % Solids Prep      **Prepared By:** WJM

YORK Sample ID	Client Sample ID	Preparation Date
20I0612-11	SV-03	09/16/20
20I0612-12	SV-04	09/16/20
20I0612-13	SV-05	09/16/20
20I0612-14	SV-06	09/16/20
20I0612-15	HB-01	09/16/20
20I0612-16	HB-02	09/16/20
20I0612-17	GSB-01 0-2	09/16/20
20I0612-18	GSB-02 0-2	09/16/20
20I0612-19	GSB-04 0-5	09/16/20
20I0612-20	GSB-09 2-3	09/16/20
20I0612-21	GSB-11 0-5	09/16/20
20I0612-22	GSB-14 0-2	09/16/20
20I0612-23	GSB-16 0-5	09/16/20
20I0612-24	GSB-03 5	09/16/20
20I0612-25	GSB-05 1	09/16/20
20I0612-26	GSB-09 2.5	09/16/20
20I0612-27	GSB-12 4	09/16/20
20I0612-28	GSB-02 10-12	09/16/20
20I0612-29	GSB-02 11	09/16/20

**Batch ID:** BI00845      **Preparation Method:** EPA 7473 soil      **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
20I0612-01	GSB-03 0-5	09/16/20
20I0612-02	GSB-05 0-2	09/16/20
20I0612-03	GSB-06 0-2	09/16/20
20I0612-04	GSB-07 0-5	09/16/20
BI00845-BLK1	Blank	09/16/20
BI00845-SRM1	Reference	09/16/20

**Batch ID:** BI00862      **Preparation Method:** EPA 7473 soil      **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
20I0612-05	GSB-08 0-2	09/16/20
20I0612-06	GSB-10 0-5	09/16/20
20I0612-07	GSB-12 0-5	09/16/20
20I0612-08	GSB-13 0-2	09/16/20
20I0612-09	GSB-15 0-5	09/16/20
20I0612-10	SV-02	09/16/20
20I0612-11	SV-03	09/16/20
20I0612-12	SV-04	09/16/20
20I0612-13	SV-05	09/16/20





20I0612-14	SV-06	09/16/20
20I0612-15	HB-01	09/16/20
20I0612-16	HB-02	09/16/20
20I0612-17	GSB-01 0-2	09/16/20
20I0612-18	GSB-02 0-2	09/16/20
20I0612-19	GSB-04 0-5	09/16/20
20I0612-20	GSB-09 2-3	09/16/20
20I0612-21	GSB-11 0-5	09/16/20
20I0612-22	GSB-14 0-2	09/16/20
20I0612-23	GSB-16 0-5	09/16/20
20I0612-28	GSB-02 10-12	09/16/20
BI00862-BLK1	Blank	09/16/20
BI00862-DUP1	Duplicate	09/16/20
BI00862-MS1	Matrix Spike	09/16/20
BI00862-SRM1	Reference	09/16/20

**Batch ID:** BI00980      **Preparation Method:** EPA 5035A      **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
20I0612-24	GSB-03 5	09/17/20
20I0612-26	GSB-09 2.5	09/17/20
BI00980-BLK1	Blank	09/17/20
BI00980-BS1	LCS	09/17/20
BI00980-BSD1	LCS Dup	09/17/20

**Batch ID:** BI00981      **Preparation Method:** EPA 5030B      **Prepared By:** TMP

YORK Sample ID	Client Sample ID	Preparation Date
20I0612-31	TB-20200911	09/16/20
BI00981-BLK1	Blank	09/17/20
BI00981-BS1	LCS	09/17/20
BI00981-BSD1	LCS Dup	09/17/20

**Batch ID:** BI01058      **Preparation Method:** EPA 3550C      **Prepared By:** LJ

YORK Sample ID	Client Sample ID	Preparation Date
20I0612-09	GSB-15 0-5	09/18/20
20I0612-10	SV-02	09/18/20
20I0612-11	SV-03	09/18/20
20I0612-12	SV-04	09/18/20
20I0612-13	SV-05	09/18/20
20I0612-14	SV-06	09/18/20
20I0612-15	HB-01	09/18/20
20I0612-16	HB-02	09/18/20
20I0612-28	GSB-02 10-12	09/18/20
BI01058-BLK1	Blank	09/18/20
BI01058-BS1	LCS	09/18/20

**Batch ID:** BI01086      **Preparation Method:** EPA 5035A      **Prepared By:** AS



YORK Sample ID	Client Sample ID	Preparation Date
20I0612-27	GSB-12 4	09/18/20
20I0612-29	GSB-02 11	09/18/20
BI01086-BLK1	Blank	09/18/20
BI01086-BS1	LCS	09/18/20
BI01086-BSD1	LCS Dup	09/18/20

**Batch ID:** BI01100      **Preparation Method:** EPA 3550C      **Prepared By:** PD

YORK Sample ID	Client Sample ID	Preparation Date
20I0612-01	GSB-03 0-5	09/21/20
20I0612-02	GSB-05 0-2	09/21/20
20I0612-02RE1	GSB-05 0-2	09/21/20
20I0612-03	GSB-06 0-2	09/21/20
20I0612-03RE1	GSB-06 0-2	09/21/20
20I0612-04	GSB-07 0-5	09/21/20
20I0612-04RE1	GSB-07 0-5	09/21/20
20I0612-05	GSB-08 0-2	09/21/20
20I0612-06	GSB-10 0-5	09/21/20
20I0612-07	GSB-12 0-5	09/21/20
20I0612-08	GSB-13 0-2	09/21/20
BI01100-BLK1	Blank	09/21/20
BI01100-BS1	LCS	09/21/20

**Batch ID:** BI01103      **Preparation Method:** EPA 3550C      **Prepared By:** TSS

YORK Sample ID	Client Sample ID	Preparation Date
20I0612-01	GSB-03 0-5	09/21/20
20I0612-01	GSB-03 0-5	09/21/20
20I0612-02	GSB-05 0-2	09/21/20
20I0612-02	GSB-05 0-2	09/21/20
20I0612-03	GSB-06 0-2	09/21/20
20I0612-03	GSB-06 0-2	09/21/20
20I0612-04	GSB-07 0-5	09/21/20
20I0612-04	GSB-07 0-5	09/21/20
20I0612-05	GSB-08 0-2	09/21/20
20I0612-05	GSB-08 0-2	09/21/20
20I0612-06	GSB-10 0-5	09/21/20
20I0612-06	GSB-10 0-5	09/21/20
20I0612-07	GSB-12 0-5	09/21/20
20I0612-07	GSB-12 0-5	09/21/20
20I0612-08	GSB-13 0-2	09/21/20
20I0612-08	GSB-13 0-2	09/21/20
20I0612-09	GSB-15 0-5	09/21/20
20I0612-09	GSB-15 0-5	09/21/20
20I0612-10	SV-02	09/21/20
20I0612-10	SV-02	09/21/20
20I0612-11	SV-03	09/21/20
20I0612-11	SV-03	09/21/20
20I0612-12	SV-04	09/21/20
20I0612-12	SV-04	09/21/20



20I0612-13	SV-05	09/21/20
20I0612-13	SV-05	09/21/20
20I0612-14	SV-06	09/21/20
20I0612-14	SV-06	09/21/20
20I0612-15	HB-01	09/21/20
20I0612-15	HB-01	09/21/20
20I0612-16	HB-02	09/21/20
20I0612-16	HB-02	09/21/20
20I0612-28	GSB-02 10-12	09/21/20
20I0612-28	GSB-02 10-12	09/21/20
BI01103-BLK1	Blank	09/21/20
BI01103-BLK2	Blank	09/21/20
BI01103-BS1	LCS	09/21/20
BI01103-BS2	LCS	09/21/20

**Batch ID:** BI01152                      **Preparation Method:** EPA 5035A                      **Prepared By:** KHA

YORK Sample ID	Client Sample ID	Preparation Date
20I0612-25	GSB-05 1	09/17/20
BI01152-BLK1	Blank	09/17/20
BI01152-BS1	LCS	09/17/20
BI01152-BSD1	LCS Dup	09/17/20



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

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

**Batch BI00980 - EPA 5035A**

**Blank (BI00980-BLK1)**

Prepared & Analyzed: 09/17/2020

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

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

**Batch BI00980 - EPA 5035A**

**Blank (BI00980-BLK1)**

Prepared & Analyzed: 09/17/2020

Methylene chloride	ND	0.010	mg/kg wet								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
<i>Surrogate: Surr: 1,2-Dichloroethane-d4</i>	53.8		ug/L	50.0		108		77-125			
<i>Surrogate: Surr: Toluene-d8</i>	50.9		"	50.0		102		85-120			
<i>Surrogate: Surr: p-Bromofluorobenzene</i>	47.6		"	50.0		95.3		76-130			

**LCS (BI00980-BS1)**

Prepared & Analyzed: 09/17/2020

1,1,1,2-Tetrachloroethane	56		ug/L	50.0		112		75-129			
1,1,1-Trichloroethane	56		"	50.0		111		71-137			
1,1,2,2-Tetrachloroethane	52		"	50.0		105		79-129			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	56		"	50.0		112		58-146			
1,1,2-Trichloroethane	52		"	50.0		103		83-123			
1,1-Dichloroethane	51		"	50.0		101		75-130			
1,1-Dichloroethylene	55		"	50.0		109		64-137			
1,2,3-Trichlorobenzene	56		"	50.0		112		81-140			
1,2,3-Trichloropropane	53		"	50.0		106		81-126			
1,2,4-Trichlorobenzene	59		"	50.0		117		80-141			
1,2,4-Trimethylbenzene	57		"	50.0		115		84-125			
1,2-Dibromo-3-chloropropane	52		"	50.0		104		74-142			
1,2-Dibromoethane	53		"	50.0		105		86-123			
1,2-Dichlorobenzene	54		"	50.0		108		85-122			
1,2-Dichloroethane	52		"	50.0		105		71-133			
1,2-Dichloropropane	49		"	50.0		97.9		81-122			
1,3,5-Trimethylbenzene	57		"	50.0		114		82-126			
1,3-Dichlorobenzene	55		"	50.0		110		84-124			
1,4-Dichlorobenzene	55		"	50.0		110		84-124			
1,4-Dioxane	1100		"	1050		106		10-228			
2-Butanone	50		"	50.0		99.9		58-147			
2-Hexanone	48		"	50.0		95.8		70-139			
4-Methyl-2-pentanone	47		"	50.0		93.1		72-132			
Acetone	39		"	50.0		77.5		36-155			
Acrolein	26		"	50.0		51.7		10-238			
Acrylonitrile	47		"	50.0		94.0		66-141			
Benzene	52		"	50.0		105		77-127			



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BI00980 - EPA 5035A

LCS (BI00980-BS1)

Prepared & Analyzed: 09/17/2020

Bromochloromethane	48		ug/L	50.0	96.8	74-129				
Bromodichloromethane	55		"	50.0	109	81-124				
Bromoform	56		"	50.0	112	80-136				
Bromomethane	69		"	50.0	139	32-177				
Carbon disulfide	54		"	50.0	108	10-136				
Carbon tetrachloride	58		"	50.0	116	66-143				
Chlorobenzene	53		"	50.0	106	86-120				
Chloroethane	87		"	50.0	174	51-142	High Bias			
Chloroform	54		"	50.0	108	76-131				
Chloromethane	55		"	50.0	111	49-132				
cis-1,2-Dichloroethylene	52		"	50.0	104	74-132				
cis-1,3-Dichloropropylene	53		"	50.0	106	81-129				
Cyclohexane	51		"	50.0	101	70-130				
Dibromochloromethane	56		"	50.0	111	10-200				
Dibromomethane	50		"	50.0	99.9	83-124				
Dichlorodifluoromethane	77		"	50.0	153	28-158				
Ethyl Benzene	55		"	50.0	109	84-125				
Hexachlorobutadiene	59		"	50.0	118	83-133				
Isopropylbenzene	54		"	50.0	109	81-127				
Methyl acetate	42		"	50.0	84.4	41-143				
Methyl tert-butyl ether (MTBE)	52		"	50.0	104	74-131				
Methylcyclohexane	53		"	50.0	106	70-130				
Methylene chloride	51		"	50.0	101	57-141				
n-Butylbenzene	62		"	50.0	124	80-130				
n-Propylbenzene	55		"	50.0	110	74-136				
o-Xylene	54		"	50.0	107	83-123				
p- & m- Xylenes	110		"	100	109	82-128				
p-Isopropyltoluene	58		"	50.0	115	85-125				
sec-Butylbenzene	58		"	50.0	117	83-125				
Styrene	55		"	50.0	110	86-126				
tert-Butyl alcohol (TBA)	210		"	250	84.6	70-130				
tert-Butylbenzene	49		"	50.0	97.8	80-127				
Tetrachloroethylene	47		"	50.0	94.0	80-129				
Toluene	53		"	50.0	105	85-121				
trans-1,2-Dichloroethylene	53		"	50.0	106	72-132				
trans-1,3-Dichloropropylene	51		"	50.0	103	78-132				
Trichloroethylene	54		"	50.0	109	84-123				
Trichlorofluoromethane	68		"	50.0	136	62-140				
Vinyl Chloride	65		"	50.0	129	52-130				
Surrogate: SURRE: 1,2-Dichloroethane-d4	52.2		"	50.0	104	77-125				
Surrogate: SURRE: Toluene-d8	51.2		"	50.0	102	85-120				
Surrogate: SURRE: p-Bromofluorobenzene	49.7		"	50.0	99.3	76-130				





Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BI00980 - EPA 5035A</b>											
<b>LCS Dup (BI00980-BSD1)</b>											
Prepared & Analyzed: 09/17/2020											
1,1,1,2-Tetrachloroethane	59		ug/L	50.0		118	75-129		5.01	30	
1,1,1-Trichloroethane	58		"	50.0		116	71-137		4.16	30	
1,1,2,2-Tetrachloroethane	55		"	50.0		109	79-129		4.27	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	58		"	50.0		116	58-146		3.53	30	
1,1,2-Trichloroethane	55		"	50.0		110	83-123		6.17	30	
1,1-Dichloroethane	52		"	50.0		103	75-130		2.08	30	
1,1-Dichloroethylene	55		"	50.0		111	64-137		1.38	30	
1,2,3-Trichlorobenzene	58		"	50.0		116	81-140		4.02	30	
1,2,3-Trichloropropane	57		"	50.0		114	81-126		6.97	30	
1,2,4-Trichlorobenzene	59		"	50.0		119	80-141		0.983	30	
1,2,4-Trimethylbenzene	59		"	50.0		117	84-125		2.43	30	
1,2-Dibromo-3-chloropropane	58		"	50.0		115	74-142		10.6	30	
1,2-Dibromoethane	55		"	50.0		110	86-123		4.29	30	
1,2-Dichlorobenzene	55		"	50.0		111	85-122		2.23	30	
1,2-Dichloroethane	54		"	50.0		109	71-133		3.78	30	
1,2-Dichloropropane	51		"	50.0		102	81-122		3.71	30	
1,3,5-Trimethylbenzene	58		"	50.0		116	82-126		1.45	30	
1,3-Dichlorobenzene	56		"	50.0		112	84-124		2.00	30	
1,4-Dichlorobenzene	56		"	50.0		113	84-124		2.84	30	
1,4-Dioxane	1300		"	1050		123	10-228		14.5	30	
2-Butanone	56		"	50.0		113	58-147		12.2	30	
2-Hexanone	51		"	50.0		102	70-139		6.39	30	
4-Methyl-2-pentanone	51		"	50.0		103	72-132		10.0	30	
Acetone	42		"	50.0		83.1	36-155		6.95	30	
Acrolein	27		"	50.0		54.9	10-238		6.01	30	
Acrylonitrile	51		"	50.0		101	66-141		7.48	30	
Benzene	54		"	50.0		108	77-127		2.50	30	
Bromochloromethane	49		"	50.0		98.6	74-129		1.88	30	
Bromodichloromethane	57		"	50.0		114	81-124		3.88	30	
Bromoform	62		"	50.0		124	80-136		9.70	30	
Bromomethane	71		"	50.0		142	32-177		2.42	30	
Carbon disulfide	55		"	50.0		110	10-136		1.78	30	
Carbon tetrachloride	59		"	50.0		119	66-143		2.27	30	
Chlorobenzene	55		"	50.0		110	86-120		3.70	30	
Chloroethane	87		"	50.0		173	51-142	High Bias	0.196	30	
Chloroform	56		"	50.0		111	76-131		3.12	30	
Chloromethane	58		"	50.0		116	49-132		4.26	30	
cis-1,2-Dichloroethylene	53		"	50.0		106	74-132		1.46	30	
cis-1,3-Dichloropropylene	55		"	50.0		110	81-129		3.87	30	
Cyclohexane	52		"	50.0		103	70-130		2.02	30	
Dibromochloromethane	60		"	50.0		120	10-200		7.20	30	
Dibromomethane	53		"	50.0		105	83-124		5.24	30	
Dichlorodifluoromethane	78		"	50.0		156	28-158		1.67	30	
Ethyl Benzene	57		"	50.0		113	84-125		3.73	30	
Hexachlorobutadiene	59		"	50.0		118	83-133		0.102	30	
Isopropylbenzene	56		"	50.0		111	81-127		2.26	30	
Methyl acetate	45		"	50.0		90.2	41-143		6.69	30	
Methyl tert-butyl ether (MTBE)	55		"	50.0		109	74-131		5.29	30	
Methylcyclohexane	55		"	50.0		110	70-130		4.09	30	
Methylene chloride	52		"	50.0		104	57-141		2.40	30	



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

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

**Batch BI00980 - EPA 5035A**

**LCS Dup (BI00980-BSD1)**

Prepared & Analyzed: 09/17/2020

n-Butylbenzene	63		ug/L	50.0		127	80-130		2.14	30	
n-Propylbenzene	56		"	50.0		112	74-136		1.48	30	
o-Xylene	56		"	50.0		111	83-123		3.70	30	
p- & m- Xylenes	110		"	100		113	82-128		3.48	30	
p-Isopropyltoluene	59		"	50.0		117	85-125		1.58	30	
sec-Butylbenzene	59		"	50.0		119	83-125		1.56	30	
Styrene	57		"	50.0		114	86-126		4.01	30	
tert-Butyl alcohol (TBA)	240		"	250		97.5	70-130		14.2	30	
tert-Butylbenzene	50		"	50.0		100	80-127		2.58	30	
Tetrachloroethylene	49		"	50.0		98.8	80-129		4.98	30	
Toluene	55		"	50.0		110	85-121		4.70	30	
trans-1,2-Dichloroethylene	55		"	50.0		109	72-132		3.22	30	
trans-1,3-Dichloropropylene	55		"	50.0		109	78-132		6.35	30	
Trichloroethylene	56		"	50.0		113	84-123		3.64	30	
Trichlorofluoromethane	68		"	50.0		136	62-140		0.500	30	
Vinyl Chloride	66		"	50.0		132	52-130	High Bias	2.10	30	

Surrogate: SURR: 1,2-Dichloroethane-d4

51.9

"

50.0

104

77-125

Surrogate: SURR: Toluene-d8

51.3

"

50.0

103

85-120

Surrogate: SURR: p-Bromofluorobenzene

49.4

"

50.0

98.8

76-130

**Batch BI00981 - EPA 5030B**

**Blank (BI00981-BLK1)**

Prepared & Analyzed: 09/17/2020

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								



**Volatile Organic Compounds by GC/MS - Quality Control Data**

**York Analytical Laboratories, Inc.**

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

**Batch BI00981 - EPA 5030B**

**Blank (BI00981-BLK1)**

Prepared & Analyzed: 09/17/2020

Bromodichloromethane	ND	0.50	ug/L										
Bromoform	ND	0.50	"										
Bromomethane	ND	0.50	"										
Carbon disulfide	ND	0.50	"										
Carbon tetrachloride	ND	0.50	"										
Chlorobenzene	ND	0.50	"										
Chloroethane	ND	0.50	"										
Chloroform	ND	0.50	"										
Chloromethane	ND	0.50	"										
cis-1,2-Dichloroethylene	ND	0.50	"										
cis-1,3-Dichloropropylene	ND	0.50	"										
Cyclohexane	ND	0.50	"										
Dibromochloromethane	ND	0.50	"										
Dibromomethane	ND	0.50	"										
Dichlorodifluoromethane	ND	0.50	"										
Ethyl Benzene	ND	0.50	"										
Hexachlorobutadiene	ND	0.50	"										
Isopropylbenzene	ND	0.50	"										
Methyl acetate	ND	0.50	"										
Methyl tert-butyl ether (MTBE)	ND	0.50	"										
Methylcyclohexane	ND	0.50	"										
Methylene chloride	ND	2.0	"										
n-Butylbenzene	ND	0.50	"										
n-Propylbenzene	ND	0.50	"										
o-Xylene	ND	0.50	"										
p- & m- Xylenes	ND	1.0	"										
p-Isopropyltoluene	ND	0.50	"										
sec-Butylbenzene	ND	0.50	"										
Styrene	ND	0.50	"										
tert-Butyl alcohol (TBA)	ND	1.0	"										
tert-Butylbenzene	ND	0.50	"										
Tetrachloroethylene	ND	0.50	"										
Toluene	ND	0.50	"										
trans-1,2-Dichloroethylene	ND	0.50	"										
trans-1,3-Dichloropropylene	ND	0.50	"										
Trichloroethylene	ND	0.50	"										
Trichlorofluoromethane	ND	0.50	"										
Vinyl Chloride	ND	0.50	"										
Xylenes, Total	ND	1.5	"										

*Surrogate: Surr: 1,2-Dichloroethane-d4*

10.3

"

10.0

103

69-130

*Surrogate: Surr: Toluene-d8*

10.3

"

10.0

103

81-117

*Surrogate: Surr: p-Bromofluorobenzene*

10.3

"

10.0

103

79-122



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting		Spike Level	Source*		%REC Limits	Flag	RPD	
		Limit	Units		Result	%REC			RPD	Limit
<b>Batch BI00981 - EPA 5030B</b>										
<b>LCS (BI00981-BS1)</b>										
Prepared & Analyzed: 09/17/2020										
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		101	82-126			
1,1,1-Trichloroethane	10		"	10.0		104	78-136			
1,1,2,2-Tetrachloroethane	9.6		"	10.0		96.3	76-129			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10		"	10.0		103	54-165			
1,1,2-Trichloroethane	9.3		"	10.0		92.8	82-123			
1,1-Dichloroethane	9.2		"	10.0		91.6	82-129			
1,1-Dichloroethylene	9.8		"	10.0		97.5	68-138			
1,2,3-Trichlorobenzene	8.8		"	10.0		87.8	40-130			
1,2,3-Trichloropropane	11		"	10.0		107	77-128			
1,2,4-Trichlorobenzene	9.4		"	10.0		93.7	65-137			
1,2,4-Trimethylbenzene	11		"	10.0		111	82-132			
1,2-Dibromo-3-chloropropane	8.6		"	10.0		85.8	45-147			
1,2-Dibromoethane	9.3		"	10.0		92.6	83-124			
1,2-Dichlorobenzene	11		"	10.0		107	79-123			
1,2-Dichloroethane	9.3		"	10.0		92.7	73-132			
1,2-Dichloropropane	9.1		"	10.0		91.1	78-126			
1,3,5-Trimethylbenzene	11		"	10.0		113	80-131			
1,3-Dichlorobenzene	10		"	10.0		105	86-130			
1,4-Dichlorobenzene	11		"	10.0		105	85-130			
1,4-Dioxane	190		"	210		92.0	10-349			
2-Butanone	8.9		"	10.0		88.7	49-152			
2-Hexanone	8.0		"	10.0		80.2	51-146			
4-Methyl-2-pentanone	7.4		"	10.0		74.5	57-145			
Acetone	8.6		"	10.0		86.2	14-150			
Acrolein	5.0		"	10.0		49.9	10-153			
Acrylonitrile	7.7		"	10.0		77.3	51-150			
Benzene	9.4		"	10.0		94.4	85-126			
Bromochloromethane	8.2		"	10.0		82.0	77-128			
Bromodichloromethane	9.7		"	10.0		97.1	79-128			
Bromoform	9.3		"	10.0		93.1	78-133			
Bromomethane	3.8		"	10.0		38.1	43-168	Low Bias		
Carbon disulfide	9.5		"	10.0		95.4	68-146			
Carbon tetrachloride	11		"	10.0		105	77-141			
Chlorobenzene	10		"	10.0		100	88-120			
Chloroethane	11		"	10.0		114	65-136			
Chloroform	9.7		"	10.0		97.3	82-128			
Chloromethane	7.3		"	10.0		73.2	43-155			
cis-1,2-Dichloroethylene	9.6		"	10.0		95.8	83-129			
cis-1,3-Dichloropropylene	9.7		"	10.0		96.6	80-131			
Cyclohexane	9.4		"	10.0		94.4	63-149			
Dibromochloromethane	9.7		"	10.0		97.2	80-130			
Dibromomethane	9.0		"	10.0		90.3	72-134			
Dichlorodifluoromethane	8.7		"	10.0		87.1	44-144			
Ethyl Benzene	11		"	10.0		107	80-131			
Hexachlorobutadiene	10		"	10.0		101	67-146			
Isopropylbenzene	11		"	10.0		110	76-140			
Methyl acetate	7.8		"	10.0		77.6	51-139			
Methyl tert-butyl ether (MTBE)	8.9		"	10.0		89.2	76-135			
Methylcyclohexane	10		"	10.0		101	72-143			
Methylene chloride	8.4		"	10.0		84.1	55-137			



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BI00981 - EPA 5030B</b>											
<b>LCS (BI00981-BS1)</b>											
Prepared & Analyzed: 09/17/2020											
n-Butylbenzene	11		ug/L	10.0		106	79-132				
n-Propylbenzene	11		"	10.0		110	78-133				
o-Xylene	10		"	10.0		103	78-130				
p- & m- Xylenes	21		"	20.0		106	77-133				
p-Isopropyltoluene	11		"	10.0		112	81-136				
sec-Butylbenzene	12		"	10.0		117	79-137				
Styrene	11		"	10.0		107	67-132				
tert-Butyl alcohol (TBA)	33		"	50.0		66.9	25-162				
tert-Butylbenzene	9.8		"	10.0		98.3	77-138				
Tetrachloroethylene	11		"	10.0		108	82-131				
Toluene	10		"	10.0		102	80-127				
trans-1,2-Dichloroethylene	9.9		"	10.0		98.7	80-132				
trans-1,3-Dichloropropylene	9.1		"	10.0		90.6	78-131				
Trichloroethylene	10		"	10.0		104	82-128				
Trichlorofluoromethane	11		"	10.0		108	67-139				
Vinyl Chloride	9.1		"	10.0		91.0	58-145				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>10.1</i>		<i>"</i>	<i>10.0</i>		<i>101</i>	<i>69-130</i>				
<i>Surrogate: SURR: Toluene-d8</i>	<i>10.2</i>		<i>"</i>	<i>10.0</i>		<i>102</i>	<i>81-117</i>				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>10.1</i>		<i>"</i>	<i>10.0</i>		<i>101</i>	<i>79-122</i>				
<b>LCS Dup (BI00981-BS1)</b>											
Prepared & Analyzed: 09/17/2020											
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		104	82-126		2.74	30	
1,1,1-Trichloroethane	10		"	10.0		100	78-136		3.14	30	
1,1,2,2-Tetrachloroethane	9.8		"	10.0		97.7	76-129		1.44	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.9		"	10.0		98.8	54-165		3.77	30	
1,1,2-Trichloroethane	9.7		"	10.0		97.1	82-123		4.53	30	
1,1-Dichloroethane	9.0		"	10.0		89.5	82-129		2.32	30	
1,1-Dichloroethylene	9.4		"	10.0		94.2	68-138		3.44	30	
1,2,3-Trichlorobenzene	8.8		"	10.0		88.1	40-130		0.341	30	
1,2,3-Trichloropropane	11		"	10.0		106	77-128		0.563	30	
1,2,4-Trichlorobenzene	9.7		"	10.0		97.2	65-137		3.67	30	
1,2,4-Trimethylbenzene	11		"	10.0		107	82-132		3.58	30	
1,2-Dibromo-3-chloropropane	9.0		"	10.0		90.2	45-147		5.00	30	
1,2-Dibromoethane	9.7		"	10.0		97.3	83-124		4.95	30	
1,2-Dichlorobenzene	10		"	10.0		103	79-123		3.80	30	
1,2-Dichloroethane	9.7		"	10.0		97.0	73-132		4.53	30	
1,2-Dichloropropane	9.3		"	10.0		92.7	78-126		1.74	30	
1,3,5-Trimethylbenzene	11		"	10.0		106	80-131		6.04	30	
1,3-Dichlorobenzene	10		"	10.0		102	86-130		2.90	30	
1,4-Dichlorobenzene	10		"	10.0		103	85-130		2.40	30	
1,4-Dioxane	230		"	210		110	10-349		17.6	30	
2-Butanone	8.7		"	10.0		87.3	49-152		1.59	30	
2-Hexanone	8.9		"	10.0		89.1	51-146		10.5	30	
4-Methyl-2-pentanone	8.4		"	10.0		83.7	57-145		11.6	30	
Acetone	8.6		"	10.0		85.5	14-150		0.815	30	
Acrolein	5.5		"	10.0		55.2	10-153		10.1	30	
Acrylonitrile	8.0		"	10.0		80.4	51-150		3.93	30	
Benzene	9.3		"	10.0		93.3	85-126		1.17	30	
Bromochloromethane	8.3		"	10.0		82.9	77-128		1.09	30	
Bromodichloromethane	10		"	10.0		99.8	79-128		2.74	30	



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

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

**Batch BI00981 - EPA 5030B**

**LCS Dup (BI00981-bsd1)**

Prepared & Analyzed: 09/17/2020

Bromoform	9.8		ug/L	10.0		97.9	78-133		5.03	30	
Bromomethane	4.1		"	10.0		41.1	43-168	Low Bias	7.58	30	
Carbon disulfide	9.1		"	10.0		90.8	68-146		4.94	30	
Carbon tetrachloride	10		"	10.0		102	77-141		2.80	30	
Chlorobenzene	10		"	10.0		101	88-120		1.19	30	
Chloroethane	11		"	10.0		113	65-136		1.24	30	
Chloroform	9.7		"	10.0		97.0	82-128		0.309	30	
Chloromethane	7.1		"	10.0		71.2	43-155		2.77	30	
cis-1,2-Dichloroethylene	9.4		"	10.0		94.4	83-129		1.47	30	
cis-1,3-Dichloropropylene	9.8		"	10.0		97.7	80-131		1.13	30	
Cyclohexane	9.3		"	10.0		92.9	63-149		1.60	30	
Dibromochloromethane	10		"	10.0		101	80-130		3.54	30	
Dibromomethane	9.2		"	10.0		92.5	72-134		2.41	30	
Dichlorodifluoromethane	8.4		"	10.0		83.7	44-144		3.98	30	
Ethyl Benzene	10		"	10.0		104	80-131		2.95	30	
Hexachlorobutadiene	9.5		"	10.0		94.6	67-146		6.64	30	
Isopropylbenzene	10		"	10.0		101	76-140		8.14	30	
Methyl acetate	8.6		"	10.0		86.4	51-139		10.7	30	
Methyl tert-butyl ether (MTBE)	9.5		"	10.0		94.9	76-135		6.19	30	
Methylcyclohexane	9.8		"	10.0		98.4	72-143		2.61	30	
Methylene chloride	8.5		"	10.0		85.2	55-137		1.30	30	
n-Butylbenzene	10		"	10.0		101	79-132		4.74	30	
n-Propylbenzene	10		"	10.0		102	78-133		7.28	30	
o-Xylene	10		"	10.0		103	78-130		0.680	30	
p- & m- Xylenes	21		"	20.0		105	77-133		0.761	30	
p-Isopropyltoluene	10		"	10.0		103	81-136		8.37	30	
sec-Butylbenzene	11		"	10.0		108	79-137		7.57	30	
Styrene	11		"	10.0		106	67-132		0.375	30	
tert-Butyl alcohol (TBA)	40		"	50.0		79.1	25-162		16.8	30	
tert-Butylbenzene	9.2		"	10.0		91.5	77-138		7.17	30	
Tetrachloroethylene	11		"	10.0		107	82-131		1.67	30	
Toluene	9.9		"	10.0		99.2	80-127		2.69	30	
trans-1,2-Dichloroethylene	9.2		"	10.0		91.7	80-132		7.35	30	
trans-1,3-Dichloropropylene	9.7		"	10.0		96.8	78-131		6.62	30	
Trichloroethylene	10		"	10.0		99.5	82-128		4.42	30	
Trichlorofluoromethane	10		"	10.0		104	67-139		3.39	30	
Vinyl Chloride	8.5		"	10.0		84.6	58-145		7.29	30	
Surrogate: Surr: 1,2-Dichloroethane-d4	10.3		"	10.0		103	69-130				
Surrogate: Surr: Toluene-d8	9.99		"	10.0		99.9	81-117				
Surrogate: Surr: p-Bromofluorobenzene	9.98		"	10.0		99.8	79-122				





**Volatile Organic Compounds by GC/MS - Quality Control Data**

**York Analytical Laboratories, Inc.**

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

**Batch BI01086 - EPA 5035A**

**Blank (BI01086-BLK1)**

Prepared & Analyzed: 09/18/2020

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet
1,1,1-Trichloroethane	ND	0.0050	"
1,1,2,2-Tetrachloroethane	ND	0.0050	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"
1,1,2-Trichloroethane	ND	0.0050	"
1,1-Dichloroethane	ND	0.0050	"
1,1-Dichloroethylene	ND	0.0050	"
1,2,3-Trichlorobenzene	ND	0.0050	"
1,2,3-Trichloropropane	ND	0.0050	"
1,2,4-Trichlorobenzene	ND	0.0050	"
1,2,4-Trimethylbenzene	ND	0.0050	"
1,2-Dibromo-3-chloropropane	ND	0.0050	"
1,2-Dibromoethane	ND	0.0050	"
1,2-Dichlorobenzene	ND	0.0050	"
1,2-Dichloroethane	ND	0.0050	"
1,2-Dichloropropane	ND	0.0050	"
1,3,5-Trimethylbenzene	ND	0.0050	"
1,3-Dichlorobenzene	ND	0.0050	"
1,4-Dichlorobenzene	ND	0.0050	"
1,4-Dioxane	ND	0.10	"
2-Butanone	ND	0.0050	"
2-Hexanone	ND	0.0050	"
4-Methyl-2-pentanone	ND	0.0050	"
Acetone	ND	0.010	"
Acrolein	ND	0.010	"
Acrylonitrile	ND	0.0050	"
Benzene	ND	0.0050	"
Bromochloromethane	ND	0.0050	"
Bromodichloromethane	ND	0.0050	"
Bromoform	ND	0.0050	"
Bromomethane	ND	0.0050	"
Carbon disulfide	ND	0.0050	"
Carbon tetrachloride	ND	0.0050	"
Chlorobenzene	ND	0.0050	"
Chloroethane	ND	0.0050	"
Chloroform	ND	0.0050	"
Chloromethane	ND	0.0050	"
cis-1,2-Dichloroethylene	ND	0.0050	"
cis-1,3-Dichloropropylene	ND	0.0050	"
Cyclohexane	ND	0.0050	"
Dibromochloromethane	ND	0.0050	"
Dibromomethane	ND	0.0050	"
Dichlorodifluoromethane	ND	0.0050	"
Ethyl Benzene	ND	0.0050	"
Hexachlorobutadiene	ND	0.0050	"
Isopropylbenzene	ND	0.0050	"
Methyl acetate	ND	0.0050	"
Methyl tert-butyl ether (MTBE)	ND	0.0050	"
Methylcyclohexane	ND	0.0050	"
Methylene chloride	ND	0.010	"



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

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

**Batch BI01086 - EPA 5035A**

**Blank (BI01086-BLK1)**

Prepared & Analyzed: 09/18/2020

n-Butylbenzene	ND	0.0050	mg/kg wet								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								

<i>Surrogate: SURRE: 1,2-Dichloroethane-d4</i>	53.6		ug/L	50.0		107	77-125				
<i>Surrogate: SURRE: Toluene-d8</i>	51.0		"	50.0		102	85-120				
<i>Surrogate: SURRE: p-Bromofluorobenzene</i>	48.2		"	50.0		96.4	76-130				

**LCS (BI01086-BS1)**

Prepared & Analyzed: 09/18/2020

1,1,1,2-Tetrachloroethane	57		ug/L	50.0		113	75-129				
1,1,1-Trichloroethane	56		"	50.0		113	71-137				
1,1,2,2-Tetrachloroethane	53		"	50.0		105	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	57		"	50.0		114	58-146				
1,1,2-Trichloroethane	52		"	50.0		105	83-123				
1,1-Dichloroethane	50		"	50.0		101	75-130				
1,1-Dichloroethylene	56		"	50.0		111	64-137				
1,2,3-Trichlorobenzene	57		"	50.0		114	81-140				
1,2,3-Trichloropropane	55		"	50.0		111	81-126				
1,2,4-Trichlorobenzene	61		"	50.0		122	80-141				
1,2,4-Trimethylbenzene	58		"	50.0		115	84-125				
1,2-Dibromo-3-chloropropane	55		"	50.0		110	74-142				
1,2-Dibromoethane	52		"	50.0		104	86-123				
1,2-Dichlorobenzene	54		"	50.0		108	85-122				
1,2-Dichloroethane	52		"	50.0		104	71-133				
1,2-Dichloropropane	49		"	50.0		98.2	81-122				
1,3,5-Trimethylbenzene	57		"	50.0		115	82-126				
1,3-Dichlorobenzene	56		"	50.0		111	84-124				
1,4-Dichlorobenzene	55		"	50.0		111	84-124				
1,4-Dioxane	1100		"	1050		104	10-228				
2-Butanone	53		"	50.0		105	58-147				
2-Hexanone	48		"	50.0		96.9	70-139				
4-Methyl-2-pentanone	49		"	50.0		98.2	72-132				
Acetone	41		"	50.0		82.0	36-155				
Acrolein	25		"	50.0		50.1	10-238				
Acrylonitrile	48		"	50.0		96.6	66-141				
Benzene	52		"	50.0		105	77-127				
Bromochloromethane	49		"	50.0		97.6	74-129				



**Volatile Organic Compounds by GC/MS - Quality Control Data**

**York Analytical Laboratories, Inc.**

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

**Batch BI01086 - EPA 5035A**

**LCS (BI01086-BS1)**

Prepared & Analyzed: 09/18/2020

Bromodichloromethane	55		ug/L	50.0		110	81-124			
Bromoform	57		"	50.0		114	80-136			
Bromomethane	71		"	50.0		141	32-177			
Carbon disulfide	54		"	50.0		108	10-136			
Carbon tetrachloride	59		"	50.0		117	66-143			
Chlorobenzene	54		"	50.0		108	86-120			
Chloroethane	85		"	50.0		170	51-142	High Bias		
Chloroform	54		"	50.0		108	76-131			
Chloromethane	55		"	50.0		111	49-132			
cis-1,2-Dichloroethylene	52		"	50.0		105	74-132			
cis-1,3-Dichloropropylene	53		"	50.0		106	81-129			
Cyclohexane	51		"	50.0		103	70-130			
Dibromochloromethane	57		"	50.0		115	10-200			
Dibromomethane	50		"	50.0		100	83-124			
Dichlorodifluoromethane	69		"	50.0		138	28-158			
Ethyl Benzene	56		"	50.0		111	84-125			
Hexachlorobutadiene	60		"	50.0		119	83-133			
Isopropylbenzene	55		"	50.0		110	81-127			
Methyl acetate	44		"	50.0		88.4	41-143			
Methyl tert-butyl ether (MTBE)	52		"	50.0		104	74-131			
Methylcyclohexane	54		"	50.0		108	70-130			
Methylene chloride	51		"	50.0		101	57-141			
n-Butylbenzene	59		"	50.0		117	80-130			
n-Propylbenzene	56		"	50.0		112	74-136			
o-Xylene	54		"	50.0		108	83-123			
p- & m- Xylenes	110		"	100		110	82-128			
p-Isopropyltoluene	58		"	50.0		116	85-125			
sec-Butylbenzene	59		"	50.0		118	83-125			
Styrene	55		"	50.0		111	86-126			
tert-Butyl alcohol (TBA)	220		"	250		89.1	70-130			
tert-Butylbenzene	49		"	50.0		98.4	80-127			
Tetrachloroethylene	49		"	50.0		97.1	80-129			
Toluene	53		"	50.0		106	85-121			
trans-1,2-Dichloroethylene	54		"	50.0		108	72-132			
trans-1,3-Dichloropropylene	53		"	50.0		105	78-132			
Trichloroethylene	55		"	50.0		110	84-123			
Trichlorofluoromethane	66		"	50.0		133	62-140			
Vinyl Chloride	65		"	50.0		130	52-130			
<i>Surrogate: SURRE: 1,2-Dichloroethane-d4</i>	<i>51.6</i>		<i>"</i>	<i>50.0</i>		<i>103</i>	<i>77-125</i>			
<i>Surrogate: SURRE: Toluene-d8</i>	<i>51.4</i>		<i>"</i>	<i>50.0</i>		<i>103</i>	<i>85-120</i>			
<i>Surrogate: SURRE: p-Bromofluorobenzene</i>	<i>49.5</i>		<i>"</i>	<i>50.0</i>		<i>99.1</i>	<i>76-130</i>			



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit
<b>Batch BI01086 - EPA 5035A</b>										
<b>LCS Dup (BI01086-bsd1)</b>										
Prepared & Analyzed: 09/18/2020										
1,1,1,2-Tetrachloroethane	59		ug/L	50.0		118	75-129		4.38	30
1,1,1-Trichloroethane	58		"	50.0		117	71-137		3.51	30
1,1,2,2-Tetrachloroethane	56		"	50.0		113	79-129		6.90	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	57		"	50.0		115	58-146		1.12	30
1,1,2-Trichloroethane	55		"	50.0		110	83-123		4.40	30
1,1-Dichloroethane	52		"	50.0		104	75-130		3.08	30
1,1-Dichloroethylene	56		"	50.0		111	64-137		0.126	30
1,2,3-Trichlorobenzene	59		"	50.0		118	81-140		3.59	30
1,2,3-Trichloropropane	58		"	50.0		116	81-126		4.08	30
1,2,4-Trichlorobenzene	61		"	50.0		123	80-141		0.803	30
1,2,4-Trimethylbenzene	58		"	50.0		116	84-125		0.277	30
1,2-Dibromo-3-chloropropane	60		"	50.0		119	74-142		8.32	30
1,2-Dibromoethane	56		"	50.0		111	86-123		6.47	30
1,2-Dichlorobenzene	55		"	50.0		110	85-122		1.34	30
1,2-Dichloroethane	54		"	50.0		109	71-133		4.32	30
1,2-Dichloropropane	50		"	50.0		99.3	81-122		1.09	30
1,3,5-Trimethylbenzene	57		"	50.0		114	82-126		0.751	30
1,3-Dichlorobenzene	56		"	50.0		111	84-124		0.00	30
1,4-Dichlorobenzene	56		"	50.0		113	84-124		1.66	30
1,4-Dioxane	1200		"	1050		110	10-228		5.90	30
2-Butanone	59		"	50.0		117	58-147		11.1	30
2-Hexanone	53		"	50.0		107	70-139		9.89	30
4-Methyl-2-pentanone	53		"	50.0		107	72-132		8.15	30
Acetone	45		"	50.0		90.2	36-155		9.57	30
Acrolein	28		"	50.0		55.2	10-238		9.61	30
Acrylonitrile	55		"	50.0		109	66-141		12.2	30
Benzene	54		"	50.0		108	77-127		3.02	30
Bromochloromethane	50		"	50.0		101	74-129		3.11	30
Bromodichloromethane	56		"	50.0		112	81-124		1.56	30
Bromoform	61		"	50.0		122	80-136		6.80	30
Bromomethane	69		"	50.0		138	32-177		2.40	30
Carbon disulfide	55		"	50.0		109	10-136		0.921	30
Carbon tetrachloride	61		"	50.0		121	66-143		3.27	30
Chlorobenzene	54		"	50.0		109	86-120		0.628	30
Chloroethane	87		"	50.0		173	51-142	High Bias	1.71	30
Chloroform	55		"	50.0		110	76-131		1.89	30
Chloromethane	57		"	50.0		114	49-132		2.83	30
cis-1,2-Dichloroethylene	54		"	50.0		108	74-132		2.88	30
cis-1,3-Dichloropropylene	54		"	50.0		109	81-129		2.39	30
Cyclohexane	52		"	50.0		105	70-130		1.83	30
Dibromochloromethane	59		"	50.0		119	10-200		3.12	30
Dibromomethane	52		"	50.0		105	83-124		4.80	30
Dichlorodifluoromethane	73		"	50.0		146	28-158		5.27	30
Ethyl Benzene	56		"	50.0		111	84-125		0.0898	30
Hexachlorobutadiene	59		"	50.0		119	83-133		0.538	30
Isopropylbenzene	55		"	50.0		110	81-127		0.0182	30
Methyl acetate	48		"	50.0		95.9	41-143		8.16	30
Methyl tert-butyl ether (MTBE)	56		"	50.0		112	74-131		7.60	30
Methylcyclohexane	54		"	50.0		108	70-130		0.259	30
Methylene chloride	52		"	50.0		104	57-141		2.01	30



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

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

**Batch BI01086 - EPA 5035A**

**LCS Dup (BI01086-BSD1)**

Prepared & Analyzed: 09/18/2020

n-Butylbenzene	60		ug/L	50.0		119	80-130		1.61	30	
n-Propylbenzene	55		"	50.0		110	74-136		1.53	30	
o-Xylene	55		"	50.0		110	83-123		1.34	30	
p- & m- Xylenes	110		"	100		111	82-128		0.845	30	
p-Isopropyltoluene	58		"	50.0		116	85-125		0.397	30	
sec-Butylbenzene	58		"	50.0		117	83-125		1.09	30	
Styrene	57		"	50.0		113	86-126		2.34	30	
tert-Butyl alcohol (TBA)	260		"	250		102	70-130		13.9	30	
tert-Butylbenzene	49		"	50.0		98.8	80-127		0.345	30	
Tetrachloroethylene	49		"	50.0		98.4	80-129		1.29	30	
Toluene	54		"	50.0		107	85-121		0.786	30	
trans-1,2-Dichloroethylene	55		"	50.0		110	72-132		1.82	30	
trans-1,3-Dichloropropylene	55		"	50.0		110	78-132		4.07	30	
Trichloroethylene	54		"	50.0		109	84-123		1.04	30	
Trichlorofluoromethane	68		"	50.0		137	62-140		3.00	30	
Vinyl Chloride	65		"	50.0		130	52-130		0.185	30	

Surrogate: SURR: 1,2-Dichloroethane-d4

53.5

"

50.0

107

77-125

Surrogate: SURR: Toluene-d8

51.3

"

50.0

103

85-120

Surrogate: SURR: p-Bromofluorobenzene

49.4

"

50.0

98.7

76-130

**Batch BI01152 - EPA 5035A**

**Blank (BI01152-BLK1)**

Prepared & Analyzed: 09/17/2020

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								



**Volatile Organic Compounds by GC/MS - Quality Control Data**

**York Analytical Laboratories, Inc.**

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

**Batch BI01152 - EPA 5035A**

**Blank (BI01152-BLK1)**

Prepared & Analyzed: 09/17/2020

Bromodichloromethane	ND	0.0050	mg/kg wet								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
<i>Surrogate: SURRE: 1,2-Dichloroethane-d4</i>	43.7		ug/L	50.0		87.3		77-125			
<i>Surrogate: SURRE: Toluene-d8</i>	49.6		"	50.0		99.1		85-120			
<i>Surrogate: SURRE: p-Bromofluorobenzene</i>	48.5		"	50.0		96.9		76-130			





**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting		Spike Level	Source*		%REC Limits	Flag	RPD	
		Limit	Units		Result	%REC			RPD	Limit
<b>Batch BI01152 - EPA 5035A</b>										
<b>LCS (BI01152-BS1)</b>										
Prepared & Analyzed: 09/17/2020										
1,1,1,2-Tetrachloroethane	41		ug/L	50.0		82.0	75-129			
1,1,1-Trichloroethane	50		"	50.0		100	71-137			
1,1,2,2-Tetrachloroethane	52		"	50.0		104	79-129			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	58		"	50.0		116	58-146			
1,1,2-Trichloroethane	54		"	50.0		107	83-123			
1,1-Dichloroethane	51		"	50.0		102	75-130			
1,1-Dichloroethylene	52		"	50.0		103	64-137			
1,2,3-Trichlorobenzene	53		"	50.0		105	81-140			
1,2,3-Trichloropropane	47		"	50.0		95.0	81-126			
1,2,4-Trichlorobenzene	52		"	50.0		104	80-141			
1,2,4-Trimethylbenzene	46		"	50.0		91.6	84-125			
1,2-Dibromo-3-chloropropane	46		"	50.0		92.6	74-142			
1,2-Dibromoethane	52		"	50.0		105	86-123			
1,2-Dichlorobenzene	53		"	50.0		106	85-122			
1,2-Dichloroethane	46		"	50.0		92.8	71-133			
1,2-Dichloropropane	49		"	50.0		97.7	81-122			
1,3,5-Trimethylbenzene	47		"	50.0		93.9	82-126			
1,3-Dichlorobenzene	52		"	50.0		103	84-124			
1,4-Dichlorobenzene	51		"	50.0		101	84-124			
1,4-Dioxane	1400		"	1050		137	10-228			
2-Butanone	64		"	50.0		128	58-147			
2-Hexanone	52		"	50.0		104	70-139			
4-Methyl-2-pentanone	52		"	50.0		104	72-132			
Acetone	39		"	50.0		77.8	36-155			
Acrolein	58		"	50.0		117	10-238			
Acrylonitrile	64		"	50.0		128	66-141			
Benzene	57		"	50.0		114	77-127			
Bromochloromethane	51		"	50.0		102	74-129			
Bromodichloromethane	47		"	50.0		94.0	81-124			
Bromoform	40		"	50.0		80.5	80-136			
Bromomethane	49		"	50.0		97.6	32-177			
Carbon disulfide	58		"	50.0		116	10-136			
Carbon tetrachloride	52		"	50.0		104	66-143			
Chlorobenzene	54		"	50.0		107	86-120			
Chloroethane	54		"	50.0		108	51-142			
Chloroform	51		"	50.0		102	76-131			
Chloromethane	67		"	50.0		134	49-132	High Bias		
cis-1,2-Dichloroethylene	51		"	50.0		101	74-132			
cis-1,3-Dichloropropylene	50		"	50.0		99.1	81-129			
Cyclohexane	54		"	50.0		109	70-130			
Dibromochloromethane	52		"	50.0		103	10-200			
Dibromomethane	49		"	50.0		98.6	83-124			
Dichlorodifluoromethane	57		"	50.0		114	28-158			
Ethyl Benzene	51		"	50.0		101	84-125			
Hexachlorobutadiene	50		"	50.0		99.1	83-133			
Isopropylbenzene	46		"	50.0		92.4	81-127			
Methyl acetate	50		"	50.0		101	41-143			
Methyl tert-butyl ether (MTBE)	53		"	50.0		107	74-131			
Methylcyclohexane	53		"	50.0		106	70-130			
Methylene chloride	54		"	50.0		107	57-141			



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

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

**Batch BI01152 - EPA 5035A**

**LCS (BI01152-BS1)**

Prepared & Analyzed: 09/17/2020

n-Butylbenzene	49		ug/L	50.0		97.6	80-130				
n-Propylbenzene	46		"	50.0		92.5	74-136				
o-Xylene	49		"	50.0		98.3	83-123				
p- & m- Xylenes	100		"	100		101	82-128				
p-Isopropyltoluene	50		"	50.0		99.1	85-125				
sec-Butylbenzene	51		"	50.0		103	83-125				
Styrene	55		"	50.0		109	86-126				
tert-Butyl alcohol (TBA)	300		"	250		120	70-130				
tert-Butylbenzene	48		"	50.0		95.2	80-127				
Tetrachloroethylene	50		"	50.0		101	80-129				
Toluene	53		"	50.0		105	85-121				
trans-1,2-Dichloroethylene	53		"	50.0		107	72-132				
trans-1,3-Dichloropropylene	47		"	50.0		94.2	78-132				
Trichloroethylene	51		"	50.0		103	84-123				
Trichlorofluoromethane	45		"	50.0		89.4	62-140				
Vinyl Chloride	69		"	50.0		138	52-130	High Bias			

Surrogate: SURR: 1,2-Dichloroethane-d4

42.8

"

50.0

85.6

77-125

Surrogate: SURR: Toluene-d8

49.0

"

50.0

98.0

85-120

Surrogate: SURR: p-Bromofluorobenzene

43.1

"

50.0

86.3

76-130

**LCS Dup (BI01152-BS1)**

Prepared & Analyzed: 09/17/2020

1,1,1,2-Tetrachloroethane	41		ug/L	50.0		81.1	75-129		1.13	30	
1,1,1-Trichloroethane	49		"	50.0		98.7	71-137		1.41	30	
1,1,2,2-Tetrachloroethane	51		"	50.0		102	79-129		1.40	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	59		"	50.0		117	58-146		0.890	30	
1,1,2-Trichloroethane	52		"	50.0		104	83-123		2.76	30	
1,1-Dichloroethane	50		"	50.0		99.5	75-130		2.25	30	
1,1-Dichloroethylene	53		"	50.0		106	64-137		2.16	30	
1,2,3-Trichlorobenzene	52		"	50.0		104	81-140		0.991	30	
1,2,3-Trichloropropane	47		"	50.0		94.7	81-126		0.253	30	
1,2,4-Trichlorobenzene	51		"	50.0		102	80-141		1.71	30	
1,2,4-Trimethylbenzene	45		"	50.0		89.9	84-125		1.81	30	
1,2-Dibromo-3-chloropropane	47		"	50.0		93.3	74-142		0.796	30	
1,2-Dibromoethane	51		"	50.0		103	86-123		1.92	30	
1,2-Dichlorobenzene	52		"	50.0		104	85-122		1.43	30	
1,2-Dichloroethane	46		"	50.0		92.0	71-133		0.844	30	
1,2-Dichloropropane	47		"	50.0		94.7	81-122		3.06	30	
1,3,5-Trimethylbenzene	47		"	50.0		93.3	82-126		0.619	30	
1,3-Dichlorobenzene	51		"	50.0		101	84-124		2.01	30	
1,4-Dichlorobenzene	50		"	50.0		100	84-124		0.954	30	
1,4-Dioxane	1400		"	1050		130	10-228		5.85	30	
2-Butanone	60		"	50.0		119	58-147		6.84	30	
2-Hexanone	52		"	50.0		104	70-139		0.135	30	
4-Methyl-2-pentanone	52		"	50.0		104	72-132		0.116	30	
Acetone	36		"	50.0		72.3	36-155		7.38	30	
Acrolein	62		"	50.0		124	10-238		6.17	30	
Acrylonitrile	60		"	50.0		119	66-141		6.71	30	
Benzene	57		"	50.0		113	77-127		1.09	30	
Bromochloromethane	50		"	50.0		99.5	74-129		2.64	30	
Bromodichloromethane	46		"	50.0		92.3	81-124		1.78	30	



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

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

**Batch BI01152 - EPA 5035A**

**LCS Dup (BI01152-BSD1)**

Prepared & Analyzed: 09/17/2020

Bromoform	40		ug/L	50.0		79.8	80-136	Low Bias	0.973	30	
Bromomethane	44		"	50.0		88.7	32-177		9.58	30	
Carbon disulfide	57		"	50.0		114	10-136		2.05	30	
Carbon tetrachloride	52		"	50.0		104	66-143		0.846	30	
Chlorobenzene	53		"	50.0		105	86-120		1.94	30	
Chloroethane	54		"	50.0		107	51-142		0.983	30	
Chloroform	50		"	50.0		101	76-131		1.11	30	
Chloromethane	67		"	50.0		133	49-132	High Bias	0.135	30	
cis-1,2-Dichloroethylene	50		"	50.0		100	74-132		1.19	30	
cis-1,3-Dichloropropylene	49		"	50.0		98.0	81-129		1.12	30	
Cyclohexane	54		"	50.0		108	70-130		0.498	30	
Dibromochloromethane	51		"	50.0		102	10-200		1.74	30	
Dibromomethane	49		"	50.0		98.4	83-124		0.284	30	
Dichlorodifluoromethane	56		"	50.0		113	28-158		1.44	30	
Ethyl Benzene	50		"	50.0		100	84-125		0.735	30	
Hexachlorobutadiene	48		"	50.0		96.8	83-133		2.43	30	
Isopropylbenzene	46		"	50.0		91.2	81-127		1.24	30	
Methyl acetate	49		"	50.0		98.8	41-143		1.77	30	
Methyl tert-butyl ether (MTBE)	53		"	50.0		106	74-131		0.847	30	
Methylcyclohexane	52		"	50.0		104	70-130		1.52	30	
Methylene chloride	52		"	50.0		105	57-141		2.60	30	
n-Butylbenzene	48		"	50.0		95.9	80-130		1.78	30	
n-Propylbenzene	46		"	50.0		91.4	74-136		1.26	30	
o-Xylene	48		"	50.0		96.7	83-123		1.72	30	
p- & m- Xylenes	100		"	100		101	82-128		0.494	30	
p-Isopropyltoluene	49		"	50.0		97.2	85-125		1.98	30	
sec-Butylbenzene	51		"	50.0		102	83-125		0.508	30	
Styrene	54		"	50.0		108	86-126		0.847	30	
tert-Butyl alcohol (TBA)	290		"	250		117	70-130		2.51	30	
tert-Butylbenzene	47		"	50.0		93.6	80-127		1.74	30	
Tetrachloroethylene	50		"	50.0		99.6	80-129		1.30	30	
Toluene	52		"	50.0		103	85-121		2.01	30	
trans-1,2-Dichloroethylene	52		"	50.0		105	72-132		1.78	30	
trans-1,3-Dichloropropylene	47		"	50.0		93.2	78-132		1.05	30	
Trichloroethylene	50		"	50.0		101	84-123		2.04	30	
Trichlorofluoromethane	46		"	50.0		91.2	62-140		1.97	30	
Vinyl Chloride	68		"	50.0		136	52-130	High Bias	1.27	30	
<i>Surrogate: SURRE: 1,2-Dichloroethane-d4</i>	<i>42.9</i>		<i>"</i>	<i>50.0</i>		<i>85.7</i>	<i>77-125</i>				
<i>Surrogate: SURRE: Toluene-d8</i>	<i>48.6</i>		<i>"</i>	<i>50.0</i>		<i>97.2</i>	<i>85-120</i>				
<i>Surrogate: SURRE: p-Bromofluorobenzene</i>	<i>43.7</i>		<i>"</i>	<i>50.0</i>		<i>87.4</i>	<i>76-130</i>				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BI01058 - EPA 3550C

Blank (BI01058-BLK1)

Prepared: 09/18/2020 Analyzed: 09/21/2020

1,1-Biphenyl	ND	41.6	ug/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	83.0	"								
1,2,4-Trichlorobenzene	ND	41.6	"								
1,2-Dichlorobenzene	ND	41.6	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	41.6	"								
1,3-Dichlorobenzene	ND	41.6	"								
1,4-Dichlorobenzene	ND	41.6	"								
2,3,4,6-Tetrachlorophenol	ND	83.0	"								
2,4,5-Trichlorophenol	ND	41.6	"								
2,4,6-Trichlorophenol	ND	41.6	"								
2,4-Dichlorophenol	ND	41.6	"								
2,4-Dimethylphenol	ND	41.6	"								
2,4-Dinitrophenol	ND	83.0	"								
2,4-Dinitrotoluene	ND	41.6	"								
2,6-Dinitrotoluene	ND	41.6	"								
2-Chloronaphthalene	ND	41.6	"								
2-Chlorophenol	ND	41.6	"								
2-Methylnaphthalene	ND	41.6	"								
2-Methylphenol	ND	41.6	"								
2-Nitroaniline	ND	83.0	"								
2-Nitrophenol	ND	41.6	"								
3- & 4-Methylphenols	ND	41.6	"								
3,3-Dichlorobenzidine	ND	41.6	"								
3-Nitroaniline	ND	83.0	"								
4,6-Dinitro-2-methylphenol	ND	83.0	"								
4-Bromophenyl phenyl ether	ND	41.6	"								
4-Chloro-3-methylphenol	ND	41.6	"								
4-Chloroaniline	ND	41.6	"								
4-Chlorophenyl phenyl ether	ND	41.6	"								
4-Nitroaniline	ND	83.0	"								
4-Nitrophenol	ND	83.0	"								
Acenaphthene	ND	41.6	"								
Acenaphthylene	ND	41.6	"								
Acetophenone	ND	41.6	"								
Aniline	ND	166	"								
Anthracene	ND	41.6	"								
Atrazine	ND	41.6	"								
Benzaldehyde	ND	41.6	"								
Benzidine	ND	166	"								
Benzo(a)anthracene	ND	41.6	"								
Benzo(a)pyrene	ND	41.6	"								
Benzo(b)fluoranthene	ND	41.6	"								
Benzo(g,h,i)perylene	ND	41.6	"								
Benzo(k)fluoranthene	ND	41.6	"								
Benzoic acid	ND	41.6	"								
Benzyl alcohol	ND	41.6	"								
Benzyl butyl phthalate	ND	41.6	"								
Bis(2-chloroethoxy)methane	ND	41.6	"								
Bis(2-chloroethyl)ether	ND	41.6	"								
Bis(2-chloroisopropyl)ether	ND	41.6	"								
Bis(2-ethylhexyl)phthalate	ND	41.6	"								



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BI01058 - EPA 3550C

Blank (BI01058-BLK1)

Prepared: 09/18/2020 Analyzed: 09/21/2020

Caprolactam	ND	83.0	ug/kg wet								
Carbazole	ND	41.6	"								
Chrysene	ND	41.6	"								
Dibenzo(a,h)anthracene	ND	41.6	"								
Dibenzofuran	ND	41.6	"								
Diethyl phthalate	ND	41.6	"								
Dimethyl phthalate	ND	41.6	"								
Di-n-butyl phthalate	ND	41.6	"								
Di-n-octyl phthalate	ND	41.6	"								
Diphenylamine	ND	83.0	"								
Fluoranthene	ND	41.6	"								
Fluorene	ND	41.6	"								
Hexachlorobenzene	ND	41.6	"								
Hexachlorobutadiene	ND	41.6	"								
Hexachlorocyclopentadiene	ND	41.6	"								
Hexachloroethane	ND	41.6	"								
Indeno(1,2,3-cd)pyrene	ND	41.6	"								
Isophorone	ND	41.6	"								
Naphthalene	ND	41.6	"								
Nitrobenzene	ND	41.6	"								
N-Nitrosodimethylamine	ND	41.6	"								
N-nitroso-di-n-propylamine	ND	41.6	"								
N-Nitrosodiphenylamine	ND	41.6	"								
Pentachlorophenol	ND	41.6	"								
Phenanthrene	ND	41.6	"								
Phenol	ND	41.6	"								
Pyrene	ND	41.6	"								

Surrogate: SURR: 2-Fluorophenol	588		"	1660		35.4	20-108				
Surrogate: SURR: Phenol-d5	612		"	1660		36.9	23-114				
Surrogate: SURR: Nitrobenzene-d5	318		"	831		38.3	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	305		"	831		36.7	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	743		"	1660		44.7	19-110				
Surrogate: SURR: Terphenyl-d14	342		"	831		41.1	24-116				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BI01058 - EPA 3550C

LCS (BI01058-BS1)

Prepared: 09/18/2020 Analyzed: 09/21/2020

1,1-Biphenyl	549	41.6	ug/kg wet	831		66.0	22-103				
1,2,4,5-Tetrachlorobenzene	659	83.0	"	831		79.4	10-144				
1,2,4-Trichlorobenzene	456	41.6	"	831		54.9	23-130				
1,2-Dichlorobenzene	440	41.6	"	831		52.9	26-113				
1,2-Diphenylhydrazine (as Azobenzene)	543	41.6	"	831		65.3	10-140				
1,3-Dichlorobenzene	419	41.6	"	831		50.4	32-113				
1,4-Dichlorobenzene	416	41.6	"	831		50.0	28-111				
2,3,4,6-Tetrachlorophenol	426	83.0	"	831		51.3	30-130				
2,4,5-Trichlorophenol	369	41.6	"	831		44.4	14-138				
2,4,6-Trichlorophenol	460	41.6	"	831		55.4	27-122				
2,4-Dichlorophenol	497	41.6	"	831		59.9	23-133				
2,4-Dimethylphenol	524	41.6	"	831		63.1	15-131				
2,4-Dinitrophenol	519	83.0	"	831		62.4	10-149				
2,4-Dinitrotoluene	486	41.6	"	831		58.6	30-123				
2,6-Dinitrotoluene	516	41.6	"	831		62.2	30-125				
2-Chloronaphthalene	450	41.6	"	831		54.2	22-115				
2-Chlorophenol	466	41.6	"	831		56.2	25-121				
2-Methylnaphthalene	494	41.6	"	831		59.5	16-127				
2-Methylphenol	386	41.6	"	831		46.5	10-146				
2-Nitroaniline	519	83.0	"	831		62.4	24-126				
2-Nitrophenol	572	41.6	"	831		68.9	17-129				
3- & 4-Methylphenols	342	41.6	"	831		41.2	20-109				
3,3-Dichlorobenzidine	415	41.6	"	831		50.0	10-147				
3-Nitroaniline	457	83.0	"	831		55.1	23-123				
4,6-Dinitro-2-methylphenol	700	83.0	"	831		84.3	10-149				
4-Bromophenyl phenyl ether	485	41.6	"	831		58.4	30-138				
4-Chloro-3-methylphenol	433	41.6	"	831		52.2	16-138				
4-Chloroaniline	399	41.6	"	831		48.0	10-117				
4-Chlorophenyl phenyl ether	446	41.6	"	831		53.7	18-132				
4-Nitroaniline	463	83.0	"	831		55.8	14-125				
4-Nitrophenol	356	83.0	"	831		42.9	10-136				
Acenaphthene	478	41.6	"	831		57.6	17-124				
Acenaphthylene	483	41.6	"	831		58.1	16-124				
Acetophenone	497	41.6	"	831		59.8	28-105				
Aniline	439	166	"	831		52.8	10-111				
Anthracene	492	41.6	"	831		59.2	24-124				
Atrazine	545	41.6	"	831		65.6	22-120				
Benzaldehyde	513	41.6	"	831		61.8	21-100				
Benzo(a)anthracene	467	41.6	"	831		56.2	25-134				
Benzo(a)pyrene	450	41.6	"	831		54.2	29-144				
Benzo(b)fluoranthene	474	41.6	"	831		57.1	20-151				
Benzo(g,h,i)perylene	456	41.6	"	831		55.0	10-153				
Benzo(k)fluoranthene	469	41.6	"	831		56.5	10-148				
Benzoic acid	303	41.6	"	831		36.5	10-116				
Benzyl alcohol	516	41.6	"	831		62.1	17-128				
Benzyl butyl phthalate	445	41.6	"	831		53.5	10-132				
Bis(2-chloroethoxy)methane	497	41.6	"	831		59.9	10-129				
Bis(2-chloroethyl)ether	464	41.6	"	831		55.9	14-125				
Bis(2-chloroisopropyl)ether	653	41.6	"	831		78.6	14-122				
Bis(2-ethylhexyl)phthalate	450	41.6	"	831		54.2	10-141				
Caprolactam	515	83.0	"	831		62.0	10-123				





Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BI01058 - EPA 3550C

LCS (BI01058-BS1)

Prepared: 09/18/2020 Analyzed: 09/21/2020

Carbazole	470	41.6	ug/kg wet	831		56.6	31-120				
Chrysene	475	41.6	"	831		57.2	24-116				
Dibenzo(a,h)anthracene	462	41.6	"	831		55.6	17-147				
Dibenzofuran	443	41.6	"	831		53.4	23-123				
Diethyl phthalate	400	41.6	"	831		48.1	23-122				
Dimethyl phthalate	428	41.6	"	831		51.6	28-127				
Di-n-butyl phthalate	440	41.6	"	831		53.0	19-123				
Di-n-octyl phthalate	467	41.6	"	831		56.2	10-132				
Diphenylamine	688	83.0	"	831		82.8	40-140				
Fluoranthene	479	41.6	"	831		57.7	36-125				
Fluorene	469	41.6	"	831		56.4	16-130				
Hexachlorobenzene	452	41.6	"	831		54.5	10-129				
Hexachlorobutadiene	453	41.6	"	831		54.6	22-153				
Hexachlorocyclopentadiene	283	41.6	"	831		34.1	10-134				
Hexachloroethane	404	41.6	"	831		48.6	20-112				
Indeno(1,2,3-cd)pyrene	569	41.6	"	831		68.5	10-155				
Isophorone	464	41.6	"	831		55.9	14-131				
Naphthalene	506	41.6	"	831		60.9	20-121				
Nitrobenzene	440	41.6	"	831		52.9	20-121				
N-Nitrosodimethylamine	396	41.6	"	831		47.7	10-124				
N-nitroso-di-n-propylamine	431	41.6	"	831		51.9	21-119				
N-Nitrosodiphenylamine	676	41.6	"	831		81.4	10-163				
Pentachlorophenol	369	41.6	"	831		44.4	10-143				
Phenanthrene	511	41.6	"	831		61.6	24-123				
Phenol	508	41.6	"	831		61.2	15-123				
Pyrene	491	41.6	"	831		59.1	24-132				
Surrogate: SURR: 2-Fluorophenol	954		"	1660		57.5	20-108				
Surrogate: SURR: Phenol-d5	977		"	1660		58.8	23-114				
Surrogate: SURR: Nitrobenzene-d5	507		"	831		61.0	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	499		"	831		60.1	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	1250		"	1660		75.1	19-110				
Surrogate: SURR: Terphenyl-d14	569		"	831		68.6	24-116				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BI01100 - EPA 3550C

Blank (BI01100-BLK1)

Prepared & Analyzed: 09/21/2020

1,1-Biphenyl	ND	41.6	ug/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	83.0	"								
1,2,4-Trichlorobenzene	ND	41.6	"								
1,2-Dichlorobenzene	ND	41.6	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	41.6	"								
1,3-Dichlorobenzene	ND	41.6	"								
1,4-Dichlorobenzene	ND	41.6	"								
2,3,4,6-Tetrachlorophenol	ND	83.0	"								
2,4,5-Trichlorophenol	ND	41.6	"								
2,4,6-Trichlorophenol	ND	41.6	"								
2,4-Dichlorophenol	ND	41.6	"								
2,4-Dimethylphenol	ND	41.6	"								
2,4-Dinitrophenol	ND	83.0	"								
2,4-Dinitrotoluene	ND	41.6	"								
2,6-Dinitrotoluene	ND	41.6	"								
2-Chloronaphthalene	ND	41.6	"								
2-Chlorophenol	ND	41.6	"								
2-Methylnaphthalene	ND	41.6	"								
2-Methylphenol	ND	41.6	"								
2-Nitroaniline	ND	83.0	"								
2-Nitrophenol	ND	41.6	"								
3- & 4-Methylphenols	ND	41.6	"								
3,3-Dichlorobenzidine	ND	41.6	"								
3-Nitroaniline	ND	83.0	"								
4,6-Dinitro-2-methylphenol	ND	83.0	"								
4-Bromophenyl phenyl ether	ND	41.6	"								
4-Chloro-3-methylphenol	ND	41.6	"								
4-Chloroaniline	ND	41.6	"								
4-Chlorophenyl phenyl ether	ND	41.6	"								
4-Nitroaniline	ND	83.0	"								
4-Nitrophenol	ND	83.0	"								
Acenaphthene	ND	41.6	"								
Acenaphthylene	ND	41.6	"								
Acetophenone	ND	41.6	"								
Aniline	ND	166	"								
Anthracene	ND	41.6	"								
Atrazine	ND	41.6	"								
Benzaldehyde	ND	41.6	"								
Benzidine	ND	166	"								
Benzo(a)anthracene	ND	41.6	"								
Benzo(a)pyrene	ND	41.6	"								
Benzo(b)fluoranthene	ND	41.6	"								
Benzo(g,h,i)perylene	ND	41.6	"								
Benzo(k)fluoranthene	ND	41.6	"								
Benzoic acid	ND	41.6	"								
Benzyl alcohol	ND	41.6	"								
Benzyl butyl phthalate	ND	41.6	"								
Bis(2-chloroethoxy)methane	ND	41.6	"								
Bis(2-chloroethyl)ether	ND	41.6	"								
Bis(2-chloroisopropyl)ether	ND	41.6	"								
Bis(2-ethylhexyl)phthalate	ND	41.6	"								



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BI01100 - EPA 3550C

Blank (BI01100-BLK1)

Prepared & Analyzed: 09/21/2020

Caprolactam	ND	83.0	ug/kg wet								
Carbazole	ND	41.6	"								
Chrysene	ND	41.6	"								
Dibenzo(a,h)anthracene	ND	41.6	"								
Dibenzofuran	ND	41.6	"								
Diethyl phthalate	ND	41.6	"								
Dimethyl phthalate	ND	41.6	"								
Di-n-butyl phthalate	ND	41.6	"								
Di-n-octyl phthalate	ND	41.6	"								
Diphenylamine	ND	83.0	"								
Fluoranthene	ND	41.6	"								
Fluorene	ND	41.6	"								
Hexachlorobenzene	ND	41.6	"								
Hexachlorobutadiene	ND	41.6	"								
Hexachlorocyclopentadiene	ND	41.6	"								
Hexachloroethane	ND	41.6	"								
Indeno(1,2,3-cd)pyrene	ND	41.6	"								
Isophorone	ND	41.6	"								
Naphthalene	ND	41.6	"								
Nitrobenzene	ND	41.6	"								
N-Nitrosodimethylamine	ND	41.6	"								
N-nitroso-di-n-propylamine	ND	41.6	"								
N-Nitrosodiphenylamine	ND	41.6	"								
Pentachlorophenol	ND	41.6	"								
Phenanthrene	ND	41.6	"								
Phenol	ND	41.6	"								
Pyrene	ND	41.6	"								

Surrogate: SURR: 2-Fluorophenol	1140		"	1660		68.7	20-108				
Surrogate: SURR: Phenol-d5	1090		"	1660		65.9	23-114				
Surrogate: SURR: Nitrobenzene-d5	595		"	831		71.6	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	565		"	831		68.0	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	1220		"	1660		73.5	19-110				
Surrogate: SURR: Terphenyl-d14	681		"	831		82.0	24-116				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BI01100 - EPA 3550C

LCS (BI01100-BS1)

Prepared & Analyzed: 09/21/2020

1,1-Biphenyl	555	41.6	ug/kg wet	831		66.8	22-103				
1,2,4,5-Tetrachlorobenzene	999	83.0	"	831		120	10-144				
1,2,4-Trichlorobenzene	557	41.6	"	831		67.1	23-130				
1,2-Dichlorobenzene	517	41.6	"	831		62.2	26-113				
1,2-Diphenylhydrazine (as Azobenzene)	573	41.6	"	831		69.0	10-140				
1,3-Dichlorobenzene	516	41.6	"	831		62.1	32-113				
1,4-Dichlorobenzene	516	41.6	"	831		62.2	28-111				
2,3,4,6-Tetrachlorophenol	662	83.0	"	831		79.8	30-130				
2,4,5-Trichlorophenol	624	41.6	"	831		75.1	14-138				
2,4,6-Trichlorophenol	592	41.6	"	831		71.2	27-122				
2,4-Dichlorophenol	601	41.6	"	831		72.3	23-133				
2,4-Dimethylphenol	616	41.6	"	831		74.1	15-131				
2,4-Dinitrophenol	629	83.0	"	831		75.8	10-149				
2,4-Dinitrotoluene	550	41.6	"	831		66.2	30-123				
2,6-Dinitrotoluene	583	41.6	"	831		70.2	30-125				
2-Chloronaphthalene	543	41.6	"	831		65.3	22-115				
2-Chlorophenol	556	41.6	"	831		67.0	25-121				
2-Methylnaphthalene	619	41.6	"	831		74.6	16-127				
2-Methylphenol	567	41.6	"	831		68.3	10-146				
2-Nitroaniline	582	83.0	"	831		70.1	24-126				
2-Nitrophenol	584	41.6	"	831		70.4	17-129				
3- & 4-Methylphenols	514	41.6	"	831		61.8	20-109				
3,3-Dichlorobenzidine	517	41.6	"	831		62.3	10-147				
3-Nitroaniline	459	83.0	"	831		55.3	23-123				
4,6-Dinitro-2-methylphenol	556	83.0	"	831		66.9	10-149				
4-Bromophenyl phenyl ether	590	41.6	"	831		71.1	30-138				
4-Chloro-3-methylphenol	586	41.6	"	831		70.6	16-138				
4-Chloroaniline	340	41.6	"	831		40.9	10-117				
4-Chlorophenyl phenyl ether	570	41.6	"	831		68.6	18-132				
4-Nitroaniline	561	83.0	"	831		67.5	14-125				
4-Nitrophenol	561	83.0	"	831		67.6	10-136				
Acenaphthene	576	41.6	"	831		69.3	17-124				
Acenaphthylene	595	41.6	"	831		71.6	16-124				
Acetophenone	529	41.6	"	831		63.7	28-105				
Aniline	505	166	"	831		60.8	10-111				
Anthracene	593	41.6	"	831		71.4	24-124				
Atrazine	567	41.6	"	831		68.2	22-120				
Benzaldehyde	549	41.6	"	831		66.1	21-100				
Benzo(a)anthracene	609	41.6	"	831		73.3	25-134				
Benzo(a)pyrene	564	41.6	"	831		67.9	29-144				
Benzo(b)fluoranthene	594	41.6	"	831		71.6	20-151				
Benzo(g,h,i)perylene	652	41.6	"	831		78.5	10-153				
Benzo(k)fluoranthene	572	41.6	"	831		68.9	10-148				
Benzoic acid	534	41.6	"	831		64.3	10-116				
Benzyl alcohol	621	41.6	"	831		74.8	17-128				
Benzyl butyl phthalate	636	41.6	"	831		76.6	10-132				
Bis(2-chloroethoxy)methane	587	41.6	"	831		70.7	10-129				
Bis(2-chloroethyl)ether	564	41.6	"	831		68.0	14-125				
Bis(2-chloroisopropyl)ether	643	41.6	"	831		77.4	14-122				
Bis(2-ethylhexyl)phthalate	648	41.6	"	831		78.0	10-141				
Caprolactam	548	83.0	"	831		65.9	10-123				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

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

Batch BI01100 - EPA 3550C

LCS (BI01100-BS1)

Prepared & Analyzed: 09/21/2020

Carbazole	573	41.6	ug/kg wet	831		69.0	31-120				
Chrysene	599	41.6	"	831		72.1	24-116				
Dibenzo(a,h)anthracene	616	41.6	"	831		74.1	17-147				
Dibenzofuran	565	41.6	"	831		68.0	23-123				
Diethyl phthalate	573	41.6	"	831		69.0	23-122				
Dimethyl phthalate	572	41.6	"	831		68.9	28-127				
Di-n-butyl phthalate	596	41.6	"	831		71.8	19-123				
Di-n-octyl phthalate	621	41.6	"	831		74.7	10-132				
Diphenylamine	725	83.0	"	831		87.3	40-140				
Fluoranthene	578	41.6	"	831		69.6	36-125				
Fluorene	575	41.6	"	831		69.3	16-130				
Hexachlorobenzene	556	41.6	"	831		67.0	10-129				
Hexachlorobutadiene	554	41.6	"	831		66.7	22-153				
Hexachlorocyclopentadiene	569	41.6	"	831		68.5	10-134				
Hexachloroethane	525	41.6	"	831		63.2	20-112				
Indeno(1,2,3-cd)pyrene	614	41.6	"	831		73.9	10-155				
Isophorone	596	41.6	"	831		71.8	14-131				
Naphthalene	586	41.6	"	831		70.6	20-121				
Nitrobenzene	560	41.6	"	831		67.4	20-121				
N-Nitrosodimethylamine	551	41.6	"	831		66.3	10-124				
N-nitroso-di-n-propylamine	555	41.6	"	831		66.9	21-119				
N-Nitrosodiphenylamine	734	41.6	"	831		88.4	10-163				
Pentachlorophenol	650	41.6	"	831		78.3	10-143				
Phenanthrene	582	41.6	"	831		70.0	24-123				
Phenol	586	41.6	"	831		70.5	15-123				
Pyrene	621	41.6	"	831		74.8	24-132				
Surrogate: SURR: 2-Fluorophenol	1190		"	1660		71.7	20-108				
Surrogate: SURR: Phenol-d5	1130		"	1660		67.8	23-114				
Surrogate: SURR: Nitrobenzene-d5	616		"	831		74.1	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	588		"	831		70.8	21-113				
Surrogate: SURR: 2,4,6-Tribromophenol	1320		"	1660		79.5	19-110				
Surrogate: SURR: Terphenyl-d14	719		"	831		86.6	24-116				



**Organochlorine Pesticides by GC/ECD - Quality Control Data**  
**York Analytical Laboratories, Inc.**

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

**Batch BI01103 - EPA 3550C**

**Blank (BI01103-BLK1)**

Prepared: 09/21/2020 Analyzed: 09/22/2020

4,4'-DDD	ND	0.00164	mg/kg wet								
4,4'-DDE	ND	0.00164	"								
4,4'-DDT	ND	0.00164	"								
Aldrin	ND	0.00164	"								
alpha-BHC	ND	0.00164	"								
alpha-Chlordane	ND	0.00164	"								
beta-BHC	ND	0.00164	"								
Chlordane, total	ND	0.0329	"								
delta-BHC	ND	0.00164	"								
Dieldrin	ND	0.00164	"								
Endosulfan I	ND	0.00164	"								
Endosulfan II	ND	0.00164	"								
Endosulfan sulfate	ND	0.00164	"								
Endrin	ND	0.00164	"								
Endrin aldehyde	ND	0.00164	"								
Endrin ketone	ND	0.00164	"								
gamma-BHC (Lindane)	ND	0.00164	"								
gamma-Chlordane	ND	0.00164	"								
Heptachlor	ND	0.00164	"								
Heptachlor epoxide	ND	0.00164	"								
Methoxychlor	ND	0.00822	"								
Toxaphene	ND	0.0832	"								

<i>Surrogate: Decachlorobiphenyl</i>	0.0487		"	0.0664	73.3	30-150					
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0478		"	0.0664	72.0	30-150					

**LCS (BI01103-BS1)**

Prepared: 09/21/2020 Analyzed: 09/22/2020

4,4'-DDD	0.0143	0.00164	mg/kg wet	0.0332	43.0	40-140					
4,4'-DDE	0.0136	0.00164	"	0.0332	40.9	40-140					
4,4'-DDT	0.0134	0.00164	"	0.0332	40.4	40-140					
Aldrin	0.0137	0.00164	"	0.0332	41.4	40-140					
alpha-BHC	0.0134	0.00164	"	0.0332	40.4	40-140					
alpha-Chlordane	0.0134	0.00164	"	0.0332	40.2	40-140					
beta-BHC	0.0135	0.00164	"	0.0332	40.6	40-140					
delta-BHC	0.0137	0.00164	"	0.0332	41.1	40-140					
Dieldrin	0.0142	0.00164	"	0.0332	42.6	40-140					
Endosulfan I	0.0136	0.00164	"	0.0332	41.0	40-140					
Endosulfan II	0.0144	0.00164	"	0.0332	43.5	40-140					
Endosulfan sulfate	0.0139	0.00164	"	0.0332	41.8	40-140					
Endrin	0.0134	0.00164	"	0.0332	40.3	40-140					
Endrin aldehyde	0.0138	0.00164	"	0.0332	41.5	40-140					
Endrin ketone	0.0138	0.00164	"	0.0332	41.6	40-140					
gamma-BHC (Lindane)	0.0134	0.00164	"	0.0332	40.4	40-140					
gamma-Chlordane	0.0134	0.00164	"	0.0332	40.2	40-140					
Heptachlor	0.0142	0.00164	"	0.0332	42.7	40-140					
Heptachlor epoxide	0.0137	0.00164	"	0.0332	41.3	40-140					
Methoxychlor	0.0143	0.00822	"	0.0332	42.9	40-140					

<i>Surrogate: Decachlorobiphenyl</i>	0.0483		"	0.0664	72.7	30-150					
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0486		"	0.0664	73.1	30-150					





**Polychlorinated Biphenyls by GC/ECD - Quality Control Data**

**York Analytical Laboratories, Inc.**

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

**Batch BI01103 - EPA 3550C**

**Blank (BI01103-BLK2)**

Prepared: 09/21/2020 Analyzed: 09/22/2020

Aroclor 1016	ND	0.0166	mg/kg wet										
Aroclor 1221	ND	0.0166	"										
Aroclor 1232	ND	0.0166	"										
Aroclor 1242	ND	0.0166	"										
Aroclor 1248	ND	0.0166	"										
Aroclor 1254	ND	0.0166	"										
Aroclor 1260	ND	0.0166	"										
Aroclor 1262	ND	0.0166	"										
Aroclor 1268	ND	0.0166	"										
Total PCBs	ND	0.0166	"										
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0399</i>		<i>"</i>	<i>0.0664</i>		<i>60.0</i>		<i>30-140</i>					
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0389</i>		<i>"</i>	<i>0.0664</i>		<i>58.5</i>		<i>30-140</i>					

**LCS (BI01103-BS2)**

Prepared: 09/21/2020 Analyzed: 09/22/2020

Aroclor 1016	0.217	0.0166	mg/kg wet	0.332		65.4		40-130					
Aroclor 1260	0.202	0.0166	"	0.332		60.7		40-130					
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0452</i>		<i>"</i>	<i>0.0664</i>		<i>68.0</i>		<i>30-140</i>					
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0442</i>		<i>"</i>	<i>0.0664</i>		<i>66.5</i>		<i>30-140</i>					

**Batch Y012132 - BI01103**

**Aroclor Reference (Y012132-ARC1)**

Prepared & Analyzed: 09/21/2020

<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.216</i>		<i>ug/mL</i>	<i>0.200</i>		<i>108</i>							
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.220</i>		<i>"</i>	<i>0.200</i>		<i>110</i>							



**Metals by ICP - Quality Control Data**  
**York Analytical Laboratories, Inc.**

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

**Batch BI00798 - EPA 3050B**

**Blank (BI00798-BLK1)**

Prepared: 09/15/2020 Analyzed: 09/21/2020

Aluminum	ND	5.00	mg/kg wet
Antimony	ND	2.50	"
Arsenic	ND	1.50	"
Barium	ND	2.50	"
Beryllium	ND	0.050	"
Cadmium	ND	0.300	"
Calcium	ND	5.00	"
Chromium	ND	0.500	"
Cobalt	ND	0.400	"
Copper	ND	2.00	"
Iron	ND	25.0	"
Lead	0.601	0.500	"
Magnesium	ND	5.00	"
Manganese	ND	0.500	"
Nickel	ND	1.00	"
Potassium	18.1	5.00	"
Selenium	ND	2.50	"
Silver	ND	0.500	"
Sodium	91.4	50.0	"
Thallium	ND	2.50	"
Vanadium	ND	1.00	"
Zinc	ND	2.50	"

**Duplicate (BI00798-DUP1)**

\*Source sample: 20I0612-20 (GSB-09 2-3)

Prepared: 09/15/2020 Analyzed: 09/21/2020

Aluminum	13400	5.73	mg/kg dry	14400	7.62	35
Antimony	ND	2.86	"	ND		35
Arsenic	5.23	1.72	"	5.74	9.23	35
Barium	64.1	2.86	"	59.2	7.93	35
Beryllium	0.203	0.057	"	0.224	9.78	35
Cadmium	ND	0.344	"	ND		35
Calcium	718	5.73	"	629	13.3	35
Chromium	13.0	0.573	"	13.0	0.334	35
Cobalt	7.51	0.458	"	7.47	0.632	35
Copper	24.2	2.29	"	25.0	2.98	35
Iron	19600	28.6	"	20200	3.27	35
Lead	55.0	0.573	"	44.6	20.8	35
Magnesium	3740	5.73	"	3720	0.531	35
Manganese	642	0.573	"	539	17.5	35
Nickel	17.2	1.15	"	17.4	0.823	35
Potassium	1220	5.73	"	1250	2.75	35
Selenium	ND	2.86	"	ND		35
Silver	ND	0.573	"	ND		35
Sodium	553	57.3	"	587	5.98	35
Thallium	ND	2.86	"	ND		35
Vanadium	15.9	1.15	"	16.3	2.55	35
Zinc	58.0	2.86	"	58.7	1.25	35



**Metals by ICP - Quality Control Data**  
**York Analytical Laboratories, Inc.**

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

**Batch BI00798 - EPA 3050B**

<b>Matrix Spike (BI00798-MS1)</b>	*Source sample: 20I0612-20 (GSB-09 2-3)						Prepared: 09/15/2020 Analyzed: 09/21/2020			
Aluminum	12600	5.73	mg/kg dry	229	14400	NR	75-125	Low Bias		
Antimony	6.58	2.86	"	28.6	ND	23.0	75-125	Low Bias		
Arsenic	188	1.72	"	229	5.74	79.6	75-125			
Barium	256	2.86	"	229	59.2	86.0	75-125			
Beryllium	4.85	0.057	"	5.73	0.224	80.9	75-125			
Cadmium	4.48	0.344	"	5.73	ND	78.2	75-125			
Calcium	802	5.73	"	115	629	152	75-125	High Bias		
Chromium	31.0	0.573	"	22.9	13.0	78.3	75-125			
Cobalt	54.5	0.458	"	57.3	7.47	82.1	75-125			
Copper	49.9	2.29	"	28.6	25.0	87.2	75-125			
Iron	19900	28.6	"	115	20200	NR	75-125	Low Bias		
Lead	113	0.573	"	57.3	44.6	119	75-125			
Magnesium	3930	5.73	"	115	3720	179	75-125	High Bias		
Manganese	611	0.573	"	57.3	539	127	75-125	High Bias		
Nickel	64.4	1.15	"	57.3	17.4	82.1	75-125			
Potassium	1100	5.73	"	115	1250	NR	75-125	Low Bias		
Selenium	166	2.86	"	229	ND	72.5	75-125	Low Bias		
Silver	5.42	0.573	"	5.73	ND	94.7	75-125			
Sodium	615	57.3	"	115	587	23.7	75-125	Low Bias		
Thallium	183	2.86	"	229	ND	80.0	75-125			
Vanadium	59.5	1.15	"	57.3	16.3	75.4	75-125			
Zinc	105	2.86	"	57.3	58.7	80.4	75-125			

<b>Post Spike (BI00798-PS1)</b>	*Source sample: 20I0612-20 (GSB-09 2-3)						Prepared: 09/15/2020 Analyzed: 09/21/2020			
Aluminum	127		ug/mL	2.00	126	49.6	75-125	Low Bias		
Antimony	0.196		"	0.250	-0.006	78.5	75-125			
Arsenic	1.70		"	2.00	0.050	82.6	75-125			
Barium	2.39		"	2.00	0.517	93.5	75-125			
Beryllium	0.045		"	0.0500	0.002	87.0	75-125			
Cadmium	0.041		"	0.0500	-0.0008	81.1	75-125			
Calcium	6.58		"	1.00	5.49	109	75-125			
Chromium	0.286		"	0.200	0.114	86.1	75-125			
Cobalt	0.503		"	0.500	0.065	87.6	75-125			
Copper	0.451		"	0.250	0.218	93.3	75-125			
Iron	178		"	1.00	177	159	75-125	High Bias		
Lead	0.828		"	0.500	0.390	87.7	75-125			
Magnesium	34.0		"	1.00	32.5	152	75-125	High Bias		
Manganese	5.18		"	0.500	4.71	94.9	75-125			
Nickel	0.599		"	0.500	0.152	89.4	75-125			
Potassium	12.2		"	1.00	10.9	124	75-125			
Selenium	1.51		"	2.00	-0.050	75.6	75-125			
Silver	0.017		"	0.0500	-0.014	34.6	75-125	Low Bias		
Sodium	5.98		"	1.00	5.13	84.5	75-125			
Thallium	1.65		"	2.00	-0.035	82.4	75-125			
Vanadium	0.572		"	0.500	0.142	85.9	75-125			
Zinc	0.942		"	0.500	0.513	86.0	75-125			



**Metals by ICP - Quality Control Data**  
**York Analytical Laboratories, Inc.**

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

**Batch BI00798 - EPA 3050B**

**Reference (BI00798-SRM1)**

Prepared: 09/15/2020 Analyzed: 09/21/2020

Aluminum	6730	5.00	mg/kg wet	8460		79.5	50.5-150.1				
Antimony	47.7	2.50	"	120		39.8	19-251.7				
Arsenic	74.6	1.50	"	95.5		78.1	70.1-129.8				
Barium	244	2.50	"	300		81.3	75-125				
Beryllium	78.9	0.050	"	103		76.6	75-125.2				
Cadmium	101	0.300	"	135		75.0	74.8-125.2				
Calcium	3570	5.00	"	4720		75.7	72.7-127.5				
Chromium	110	0.500	"	147		74.7	70.1-129.9				
Cobalt	33.0	0.400	"	43.2		76.5	75-125				
Copper	119	2.00	"	150		79.2	75.3-125.3				
Iron	10800	25.0	"	14400		75.0	35.8-164.6				
Lead	70.8	0.500	"	92.3		76.7	70-130				
Magnesium	1800	5.00	"	2300		78.3	61.7-137.8				
Manganese	546	0.500	"	677		80.6	78.1-122				
Nickel	48.0	1.00	"	59.8		80.2	70.1-130.1				
Potassium	1600	5.00	"	2030		79.0	59.1-140.9				
Selenium	23.9	2.50	"	42.0		57.0	55.7-144.5				
Silver	30.2	0.500	"	40.3		74.8	69.2-130.8				
Sodium	188	50.0	"	139		136	36.1-163.3				
Thallium	58.0	2.50	"	83.1		69.8	65.3-146.8				
Vanadium	70.9	1.00	"	96.9		73.1	67-133.1				
Zinc	274	2.50	"	369		74.2	69.9-130.1				

**Batch BI00799 - EPA 3050B**

**Blank (BI00799-BLK1)**

Prepared: 09/15/2020 Analyzed: 09/16/2020

Aluminum	ND	5.00	mg/kg wet								
Antimony	ND	2.50	"								
Arsenic	ND	1.50	"								
Barium	ND	2.50	"								
Beryllium	ND	0.050	"								
Cadmium	ND	0.300	"								
Calcium	14.7	5.00	"								
Chromium	1.98	0.500	"								
Cobalt	ND	0.400	"								
Copper	ND	2.00	"								
Iron	ND	25.0	"								
Lead	ND	0.500	"								
Magnesium	ND	5.00	"								
Manganese	ND	0.500	"								
Nickel	ND	1.00	"								
Potassium	63.2	5.00	"								
Selenium	ND	2.50	"								
Silver	ND	0.500	"								
Sodium	174	50.0	"								
Thallium	ND	2.50	"								
Vanadium	ND	1.00	"								
Zinc	ND	2.50	"								



**Metals by ICP - Quality Control Data**  
**York Analytical Laboratories, Inc.**

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

**Batch BI00799 - EPA 3050B**

**Reference (BI00799-SRM1)**

Prepared: 09/15/2020 Analyzed: 09/16/2020

Aluminum	5900	5.00	mg/kg wet	8460		69.7	50.5-150.1					
Antimony	50.6	2.50	"	120		42.1	19-251.7					
Arsenic	81.1	1.50	"	95.5		84.9	70.1-129.8					
Barium	264	2.50	"	300		88.0	75-125					
Beryllium	82.5	0.050	"	103		80.1	75-125.2					
Cadmium	108	0.300	"	135		80.2	74.8-125.2					
Calcium	4440	5.00	"	4720		94.1	72.7-127.5					
Chromium	119	0.500	"	147		81.2	70.1-129.9					
Cobalt	36.4	0.400	"	43.2		84.3	75-125					
Copper	129	2.00	"	150		85.9	75.3-125.3					
Iron	11400	25.0	"	14400		79.0	35.8-164.6					
Lead	77.6	0.500	"	92.3		84.1	70-130					
Magnesium	2120	5.00	"	2300		92.2	61.7-137.8					
Manganese	586	0.500	"	677		86.6	78.1-122					
Nickel	52.2	1.00	"	59.8		87.3	70.1-130.1					
Potassium	1300	5.00	"	2030		64.1	59.1-140.9					
Selenium	26.9	2.50	"	42.0		64.0	55.7-144.5					
Silver	32.7	0.500	"	40.3		81.2	69.2-130.8					
Sodium	208	50.0	"	139		150	36.1-163.3					
Thallium	59.8	2.50	"	83.1		72.0	65.3-146.8					
Vanadium	77.8	1.00	"	96.9		80.2	67-133.1					
Zinc	304	2.50	"	369		82.3	69.9-130.1					



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

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BI00845 - EPA 7473 soil</b>											
<b>Blank (BI00845-BLK1)</b>										Prepared & Analyzed: 09/16/2020	
Mercury	ND	0.0300	mg/kg wet								
<b>Reference (BI00845-SRM1)</b>										Prepared & Analyzed: 09/16/2020	
Mercury	3.7470		mg/kg	3.71		101	65-135				
<b>Batch BI00862 - EPA 7473 soil</b>											
<b>Blank (BI00862-BLK1)</b>										Prepared & Analyzed: 09/16/2020	
Mercury	ND	0.0300	mg/kg wet								
<b>Duplicate (BI00862-DUP1)</b>										Prepared & Analyzed: 09/16/2020	
	*Source sample: 20I0612-28 (GSB-02 10-12)										
Mercury	ND	0.0309	mg/kg dry		ND						35
<b>Matrix Spike (BI00862-MS1)</b>										Prepared & Analyzed: 09/16/2020	
	*Source sample: 20I0612-28 (GSB-02 10-12)										
Mercury	0.540		mg/kg	0.500	0.0267	103	75-125				
<b>Reference (BI00862-SRM1)</b>										Prepared & Analyzed: 09/16/2020	
Mercury	4.5836		mg/kg	3.71		124	65-135				



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
20I0612-24	GSB-03 5	40mL Vial with Stir Bar-Cool 4° C
20I0612-25	GSB-05 1	40mL Vial with Stir Bar-Cool 4° C
20I0612-26	GSB-09 2.5	40mL Vial with Stir Bar-Cool 4° C
20I0612-27	GSB-12 4	40mL Vial with Stir Bar-Cool 4° C
20I0612-29	GSB-02 11	40mL Vial with Stir Bar-Cool 4° C
20I0612-31	TB-20200911	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C





## Sample and Data Qualifiers Relating to This Work Order

S-08	The recovery of this surrogate was outside of QC limits.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
M-SRD1	The serial dilution for this element was outside control limits.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
M-ICV2	The recovery for this element in the ICV was outside the 90-110% recovery criteria.
M-CRL	The RL check for this element recovered outside of control limits.
M-BLK	The target analyte was detected above the RL in the batch method blank. All samples showed >10x the concentration in the blank for this analyte. Data are reported.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
CCV-L	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased low.
CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

## Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.



**High Bias** High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

**Non-Dir.** Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

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

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

---

**Corrective Action:** The lab did not receive the following sample: TB-20200910.



YORK ANALYTICAL LABORATORIES  
120 RESEARCH DR.  
STRATFORD, CT 06615  
(203) 325-1371  
FAX (203) 357-0166

# Field Chain-of-Custody Record

York Project No. 20IC012

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

YOUR INFORMATION		Report to:		Invoice To:		Your Project ID		Turn-Around Time		Report/Deliverable Type	
Company: WCD Group	<input checked="" type="checkbox"/> SAME	Company: Poughkeepsie, NY 12603	<input checked="" type="checkbox"/> SAME	Company: Poughkeepsie, NY 12603	20-0213	Company: Poughkeepsie, NY 12603	20-0213	RUSH-Same Day	Summary Report	X	
Address: 24 Davis Avenue		Address: 845-452-1658		Address: Brenda		Address: Brenda		RUSH-Next Day	QA Report		
Phone.: 845-452-1658		Contact: Erick Salazar						RUSH-Two Day	CT RCP		
Contact: Erick Salazar		E-mail: esalazar@wcdgroup.com						RUSH-Three Day	CT RCP DQA/DUE Pkg		
E-mail: esalazar@wcdgroup.com								RUSH-Four Day	NY ASP A Package		
								Standard (5-7day)	NY ASP B Package		

**Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.**

Samples Collected/Authorized By (Signature)  
*Erick Salazar*  
Name (printed)  
**ERICK SALAZAR**

Volatiles	Metals	Misc. Org.	Full Lists
8260 full 624 STARS list BTEX MTBE TCL list TAGM list CT RCP list Arom. only Halog. only App. IX list 8021B list	RCRA8 PP13 list TAL CTI5 list TAGM list NJDEP list Total Dissolved SPL or TCLP Instr. Metals LIST Below	TPH GRO TPH DRO CT/TPH NY 310-13 TPH 1664 Air TO14A Air TO15 Air STARS Air VPH Air TICs Methane Helium	Pr. Poll. TCL Organics TAL/Met/Con Full TCLP Full App. IX Part 360-Residue Part 360-Baseline Part 360-Residue Part 360-Baseline Part 360-Residue NY/DEP Sewer NY/DEP Sewer TAGM

Sample Identification	Date+Time Sampled	Matrix	Analysis Requested (List above includes common analysis)	Container Description
GSB-03 0-5	9/10/2020	S	SVOCs; TAL metals; pest/PCBs	1x 4oz jar
GSB-05 0-2				
GSB-06 0-2				
GSB-07 0-5				
GSB-08 0-2				
GSB-10 0-5	9/11/2020			
GSB-12 0-5				
GSB-13 0-2				
GSB-15 0-5				

Preservation (check all applicable): 4°C  Frozen  HCl  MeOH  HNO<sub>3</sub>  H<sub>2</sub>SO<sub>4</sub>  NaOH  Ascorbic Acid  Other

Special Instructions: Field Filtered  Lab to Filter

Comments: *9/15/20 9:10*

Samples Relinquished By: *9/15/20 1436* Date/Time: *9-15-20 9:10*

Samples Received By: *9/15/20 1436* Date/Time: *9-15-20 9:10*

Temperature on Receipt: *1.2 °C*





YORK ANALYTICAL LABORATORIES  
120 RESEARCH DR.  
STRATFORD, CT 06615  
(203) 325-1371  
FAX (203) 357-0166

# Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 20IC012

<b>YOUR Information</b>		<b>Report to:</b>		<b>Invoice To:</b>		<b>Your Project ID</b>		<b>Turn-Around Time</b>		<b>Report/Deliverable Type</b>	
Company: WCD Group		SAME <input checked="" type="checkbox"/>		SAME <input checked="" type="checkbox"/>		20-0213		RUSH-Same Day		Summary Report	
Address: 24 Davis Avenue		Company:		Name:		Purchase Order #		RUSH-Next Day		OA Report	
Poughkeepsie, NY 12603		Address:		Company:		20-0213.03		RUSH-Two Day		CT RCP	
Phone: 845-452-1658		E-mail:		Brenda		Samples from CT_NY_NJ		RUSH-Three Day		CT RCP DQA/DUE Pkg	
Contact: Erick Salazar		E-mail:						RUSH-Four Day		NY ASP A Package	
E-mail: esalazar@wcdgroup.com								Standard (5-7 day)		NY ASP B Package	
								X		NJDEP Reduced Deliv	

**Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.**

Samples Collected/Authorized By (Signature)  
*Erick Salazar*  
Name (printed)  
**ERICK SALAZAR**

Volatiles	Semi-Vols. / Pest/PCB/Hex	Metals	Misc. Org.	Full Lists
8260 full	8270 or 625	RCA8	TPH GRO	Ph.Poll.
624	STARS list	PP13 list	TPH DRO	TCL Organics
STARS list	BN Only	TAL	CT/EPH	TAL-Metals
BTEX	Acids Only	CTI.5 list	NY 310-13	Full TCLP
MTBE	PAH list	TAGM list	TPH 1664	Full App. IX
TCL list	TAGM list	NJDEP list	Air TO14A	Pest/300-Resins
TAGM list	CT RCP list	Total	Air TO15	Pest/300-Resins
CT RCP list	TCL list	Dissolved	Air STARS	Pest/300-Resins
Arom. only	NJDEP list	SFP or TCLP	Air VPH	Pest/300-Resins
Halog. only	App. IX	Indus. Metals	Air TICs	NYCDEP Soar
App. IX list	SFP or TCLP	LIST Below	Mediane	NYSEDEC Soar
8021B list	SFP or TCLP	Helium		TAGM

Sample Identification	Date-Time Sampled	Matrix	Analysis Requested (List above includes common analysis)	Container Description
SV-02	9/11/2020	S	SVOCs; TAL metals; pest/PCBs	1x 4oz jar
SV-03				
SV-04				
SV-05				
SV-06				
HB-01				
HB-02				
GSB-01 0-2	9/10/2020		TAL metals	
GSB-02 0-2				

**Comments:**

4°C \_\_\_\_\_ Frozen \_\_\_\_\_ ZnAc \_\_\_\_\_ HCl \_\_\_\_\_ MeOH \_\_\_\_\_ HNO<sub>3</sub> \_\_\_\_\_ H<sub>2</sub>O<sub>2</sub> \_\_\_\_\_ NaOH \_\_\_\_\_  
 (check all applicable) Ascorbic Acid \_\_\_\_\_ Other \_\_\_\_\_

Special Instructions  
 Field Filtered   
 Lab to Filter

Samples Relinquished By *Erick Salazar* Date/Time 9/15/20 9:10  
 Samples Relinquished By *B. Block* Date/Time 9/15/20 1436

Samples Received By *B. Block* Date/Time 9-15-20 9:10  
 Samples Received in LAB by *B. Block* Date/Time 9/15/20 1436

Temperature on Receipt 1.2°C





YORK ANALYTICAL LABORATORIES  
120 RESEARCH DR.  
STRATFORD, CT 06615  
(203) 325-1371  
FAX (203) 357-0166

# Field Chain-of-Custody Record

**NOTE:** York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 20I0012

YOUR Information		Report to:		Invoice To:		Your Project ID		Turn-Around Time		Report/Deliverable Type	
Company: WCD Group	<input checked="" type="checkbox"/> SAME	Company: <u>WCD Group</u>	<input checked="" type="checkbox"/> SAME	Name: <u>20-0213</u>		RUSH-Same Day		Summary Report			<input checked="" type="checkbox"/>
Address: 24 Davis Avenue		Company: <u>Poughkeepsie, NY 12603</u>		Company: <u></u>		RUSH-Next Day		QA Report			
Phone: 845-452-1658		Address: <u></u>		Address: <u></u>		RUSH-Two Day		CT RCP			
Contact: Erick Salazar		E-mail: <u></u>		Purchase Order #		RUSH-Three Day		CT RCP DOA/DUE Pkg			
E-mail: <u>esalazar@wcdgroup.com</u>				20-0213.03		RUSH-Four Day		NY ASP A Package			
				Samples from CT_NY_NJ		Standard (5-7 day)		NY ASP B Package			
								NJDEP Reduced Deliv			

**Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.**

Matrix Codes  
S - soil  
Other - specify (oil, etc.)  
WW - wastewater  
GW - groundwater  
DW - drinking water  
Air-A - ambient air  
Air-SV - soil vapor

Samples Collected/Authorized By (Signature)  
Erick Salazar  
Name (printed)

Volatiles	Semi-Vols.	Metals	Misc. Org.	Full Lists
8260 full 624 STARS list BTEX MTBE TCL list TAGM list CT RCP list Arom. only Halog. only App. IX list 8021B list	8270 or 625 STARS list BN Only Acids Only PAH list TAGM list CT RCP list TCL list NDEP list App. IX list SPL or TCLP 8021B list	RCPRA8 PP13 list TAL CTL5 list TAGM list NDEP list Total Dissolved SPL or TCLP Indic. Metals LIST Below	TPH GRO TPH DRO CT ETPH NY 310-13 TPH 1664 Air TO14A Air TO15 Air STARS Air VPH Air TICs Methane Helium	Pri. Poll. TCL Organics TAL/Met/CN Full TCLP Full App. IX Part 360-Residue Part 360-Residue Part 360-Residue Part 360-Residue NYCDEP Sewer NYCDEP Sewer TAGM

Sample Identification	Date/Time Sampled	Matrix	Analysis Requested (List above includes common analysis)	Container Description
GSB-04 0-5	9/10/2020	S	TAL metals	1x 4oz jar
GSB-09 2-3	↓	↓	↓	↓
GSB-11 0-5	9/11/2020	↓	↓	↓
GSB-14 0-2	↓	↓	↓	↓
GSB-16 0-5	↓	↓	↓	↓
GSB-03 5	9/10/2020	↓	VOCs (8260)	1x terracore kit
GSB-05 1	↓	↓	↓	↓
GSB-09 2.5	↓	↓	↓	↓
GSB-12 4	9/11/2020	↓	↓	↓

**Comments:**  
dry provided terracore kits - frozen within 48

Preservation (check all applicable):  
4°C  Frozen  HCl  MeOH  HNO<sub>3</sub>  H<sub>2</sub>O<sub>2</sub>  NaOH   
ZnAc  Ascorbic Acid  Other

Special Instructions:  
Field Filtered   
Lab to Filter

Samples Relinquished By [Signature] Date/Time 9/15/20 9:10  
Samples Received By [Signature] Date/Time 9/15/20 1436

Samples Relinquished By [Signature] Date/Time 9-15-20  
Samples Received in LAB by [Signature] Date/Time 9/15/20 1436

Temperature on Receipt 1.2 °C





YORK ANALYTICAL LABORATORIES  
120 RESEARCH DR.  
STRATFORD, CT 06615  
(203) 325-1371  
Fax (203) 357-0166

# Field Chain-of-Custody Record

YORK Project No. 20I0612

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

<b>YOUR Information</b>		<b>Report to:</b>		<b>Invoice To:</b>		<b>Your Project ID</b>		<b>Turn-Around Time</b>		<b>Report/Deliverable Type</b>	
Company: WCD Group	<input checked="" type="checkbox"/> SAME	Name: <input checked="" type="checkbox"/> SAME		20-0213		RUSH-Same Day		Summary Report		X	
Address: 24 Davis Avenue		Company:		Purchase Order #		RUSH-Next Day		QA Report			
Poughkeepsie, NY 12603		Address:		20-0213.03		RUSH-Two Day		CT RCP			
Phone: 845-452-1658		E-mail:		Samples from CT_NY_NJ__		RUSH-Three Day		CT RCP DOA/DUE Pkg			
Contact: Erick Salazar		Brenda				RUSH-Four Day		NY ASP A Package			
E-mail: esalazar@wcdgroup.com						Standard (5-7 day)		NY ASP B Package			

**Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.**

Samples Collected/Authorized By (Signature)  
*Erick Salazar*  
Name (printed)  
**ERICK SALAZAR**

Volatiles	Semi-Vols.	Metals	Misc. Org.	Full Lists
8260 full 624 STARS list BTEX MTBE TCL list TAGM list CT RCP list Arom. only Halog. only App.IX list 8021B list	8270 or 625 STARS list BN Only Add. Only PAH list TAGM list CT RCP list TCL list NIDEP list App. IX TCLP BNA SELP or TCLP	RCSLA8 PP13 list TAL CTI.5 list TAGM list NIDEP list Total Dissolved SELP or TCLP Inhib. Metals LIST Below Helium	TPH GRO TPH DRO CT ETPH NY 310-13 TPH 1664 Air TO14A Air TO15 Air STARS SELP or TCLP Air VPH Air TICs Methane	Pri.Poll. TCL Organics TAL, MetCN Full TCLP Full App. IX Part 360-Residue Part 360-Residue Part 360-Residue Part 360-Residue NYCDEP Sewer NYSECSewer TAGM

Sample Identification	Date/Time Sampled	Matrix	Analysis Requested (List above includes common analysis)	Container Description
GSB-02 10-12	9/10/2020	S	SVOCs; TAL metals; pest/PCBs	1x 4oz jar
GSB-02 11	↓	S	VOCs (8260)	1x terracore kit
TB-20200910	9/10/2020	Trip Blank		2x 40ml HCl vials
TB-20200911	9/11/2020	Trip Blank		↓

**Comments:**

4°C \_\_\_\_\_ Frozen \_\_\_\_\_ HCl \_\_\_\_\_ MeOH \_\_\_\_\_ HNO<sub>3</sub> \_\_\_\_\_ NaOH \_\_\_\_\_  
ZnAc \_\_\_\_\_ Ascorbic Acid \_\_\_\_\_ Other \_\_\_\_\_

Preservation (check all applicable)

Special Instructions  
Field Filtered   
Lab to Filter

Samples Relinquished By *[Signature]* Date/Time 9/15/20 9:10  
Samples Received By *[Signature]* Date/Time 9/15/20 1436

Samples Relinquished By \_\_\_\_\_ Date/Time \_\_\_\_\_  
Samples Received in LAB by \_\_\_\_\_ Date/Time \_\_\_\_\_

Temperature on Receipt 1.2 °C



## ANALYTICAL REPORT

Lab Number:	L2043642
Client:	Gallagher Bassett Technical Services 22 IBM Road Suite 101 Poughkeepsie, NY 12603
ATTN:	Erick Salazar
Phone:	(845) 867-4714
Project Name:	WALLACE CAMPUS
Project Number:	20-0213.20
Report Date:	10/19/20

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

---

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





**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L2043642-01	MW-01 20201012	GROUNDWATER	Not Specified	10/12/20 00:00	10/12/20
L2043642-02	MW-02 20201012	GROUNDWATER	Not Specified	10/12/20 00:00	10/12/20
L2043642-03	MW-03 20201012	GROUNDWATER	Not Specified	10/12/20 00:00	10/12/20
L2043642-04	DUP 20201012	GROUNDWATER	Not Specified	10/12/20 00:00	10/12/20
L2043642-05	TB 20201012	TRIP BLANK (AQUEOUS)	Not Specified	10/12/20 00:00	10/12/20

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

### Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

Please contact Project Management at 800-624-9220 with any questions.

---

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

### Case Narrative (continued)

#### Report Submission

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

#### Semivolatile Organics

The WG1421266-2/-3 LCS/LCSD recoveries, associated with L2043642-01 through -04, are below the acceptance criteria for benzidine (5%/7%), aniline (5%/6%), and 4-chloroaniline (0%/0%); however, they have been identified as "difficult" analytes. The results of the associated samples are reported.

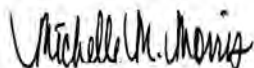
#### Dissolved Metals

L2043642-03: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

The WG1421695-3 MS recovery for sodium (17%), performed on L2043642-01, does not apply because the sample concentration is greater than four times the spike amount added.

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

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 10/19/20

# ORGANICS

# VOLATILES

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-01  
 Client ID: MW-01 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Groundwater  
 Analytical Method: 1,8260C  
 Analytical Date: 10/14/20 12:38  
 Analyst: LAC

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



**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

**Lab ID:** L2043642-01  
**Client ID:** MW-01 20201012  
**Sample Location:** Not Specified

**Date Collected:** 10/12/20 00:00  
**Date Received:** 10/12/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Tert-Butyl Alcohol	ND		ug/l	10	1.4	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Acrolein	ND		ug/l	5.0	0.44	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-01  
 Client ID: MW-01 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl cyclohexane	ND		ug/l	10	0.40	1

**Tentatively Identified Compounds**

No Tentatively Identified Compounds	ND		ug/l			1
-------------------------------------	----	--	------	--	--	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	91		70-130

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-02  
 Client ID: MW-02 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Groundwater  
 Analytical Method: 1,8260C  
 Analytical Date: 10/14/20 13:01  
 Analyst: LAC

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

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

**Lab ID:** L2043642-02  
**Client ID:** MW-02 20201012  
**Sample Location:** Not Specified

**Date Collected:** 10/12/20 00:00  
**Date Received:** 10/12/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Tert-Butyl Alcohol	ND		ug/l	10	1.4	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Acrolein	ND		ug/l	5.0	0.44	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-02  
 Client ID: MW-02 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methyl cyclohexane	ND		ug/l	10	0.40	1

**Tentatively Identified Compounds**

No Tentatively Identified Compounds	ND		ug/l			1
-------------------------------------	----	--	------	--	--	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	91		70-130

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-03  
 Client ID: MW-03 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Groundwater  
 Analytical Method: 1,8260C  
 Analytical Date: 10/14/20 13:24  
 Analyst: LAC

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



**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

**Lab ID:** L2043642-03  
**Client ID:** MW-03 20201012  
**Sample Location:** Not Specified

**Date Collected:** 10/12/20 00:00  
**Date Received:** 10/12/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Tert-Butyl Alcohol	ND		ug/l	10	1.4	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Acrolein	ND		ug/l	5.0	0.44	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-03  
 Client ID: MW-03 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl cyclohexane	ND		ug/l	10	0.40	1

## Tentatively Identified Compounds

No Tentatively Identified Compounds	ND		ug/l			1
-------------------------------------	----	--	------	--	--	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	91		70-130

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-04  
 Client ID: DUP 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Groundwater  
 Analytical Method: 1,8260C  
 Analytical Date: 10/14/20 13:47  
 Analyst: LAC

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

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

**Lab ID:** L2043642-04  
**Client ID:** DUP 20201012  
**Sample Location:** Not Specified

**Date Collected:** 10/12/20 00:00  
**Date Received:** 10/12/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Tert-Butyl Alcohol	ND		ug/l	10	1.4	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Acrolein	ND		ug/l	5.0	0.44	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-04  
 Client ID: DUP 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl cyclohexane	ND		ug/l	10	0.40	1

## Tentatively Identified Compounds

No Tentatively Identified Compounds	ND		ug/l			1
-------------------------------------	----	--	------	--	--	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	89		70-130

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-05  
 Client ID: TB 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Trip Blank (Aqueous)  
 Analytical Method: 1,8260C  
 Analytical Date: 10/14/20 14:11  
 Analyst: LAC

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



**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

**Lab ID:** L2043642-05  
**Client ID:** TB 20201012  
**Sample Location:** Not Specified

**Date Collected:** 10/12/20 00:00  
**Date Received:** 10/12/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Tert-Butyl Alcohol	ND		ug/l	10	1.4	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Acrolein	ND		ug/l	5.0	0.44	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-05  
 Client ID: TB 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl cyclohexane	ND		ug/l	10	0.40	1

## Tentatively Identified Compounds

No Tentatively Identified Compounds	ND		ug/l			1
-------------------------------------	----	--	------	--	--	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	92		70-130

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 10/14/20 09:10  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1422193-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 10/14/20 09:10  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1422193-5					
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Tert-Butyl Alcohol	ND		ug/l	10	1.4
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Acrolein	ND		ug/l	5.0	0.44
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 10/14/20 09:10  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1422193-5					
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Tentatively Identified Compounds

No Tentatively Identified Compounds      ND      ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	90		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: WALLACE CAMPUS

Lab Number: L2043642

Project Number: 20-0213.20

Report Date: 10/19/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1422193-3 WG1422193-4								
Methylene chloride	89		90		70-130	1		20
1,1-Dichloroethane	92		92		70-130	0		20
Chloroform	94		94		70-130	0		20
Carbon tetrachloride	94		95		63-132	1		20
1,2-Dichloropropane	91		91		70-130	0		20
Dibromochloromethane	95		96		63-130	1		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	94		96		70-130	2		20
Chlorobenzene	99		98		75-130	1		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	90		93		70-130	3		20
1,1,1-Trichloroethane	93		93		67-130	0		20
Bromodichloromethane	96		97		67-130	1		20
trans-1,3-Dichloropropene	110		110		70-130	0		20
cis-1,3-Dichloropropene	94		94		70-130	0		20
Bromoform	99		100		54-136	1		20
1,1,2,2-Tetrachloroethane	110		110		67-130	0		20
Benzene	92		92		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		100		70-130	0		20
Bromomethane	55		62		39-139	12		20
Vinyl chloride	94		94		55-140	0		20
Chloroethane	100		100		55-138	0		20

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: WALLACE CAMPUS

Lab Number: L2043642

Project Number: 20-0213.20

Report Date: 10/19/20

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1422193-3 WG1422193-4									
1,1-Dichloroethene	90		89		61-145		1		20
trans-1,2-Dichloroethene	90		91		70-130		1		20
Trichloroethene	95		94		70-130		1		20
1,2-Dichlorobenzene	100		100		70-130		0		20
1,3-Dichlorobenzene	100		100		70-130		0		20
1,4-Dichlorobenzene	100		100		70-130		0		20
Methyl tert butyl ether	90		92		63-130		2		20
p/m-Xylene	100		100		70-130		0		20
o-Xylene	105		105		70-130		0		20
cis-1,2-Dichloroethene	93		93		70-130		0		20
Dibromomethane	85		89		70-130		5		20
1,2,3-Trichloropropane	110		110		64-130		0		20
Acrylonitrile	84		86		70-130		2		20
Tert-Butyl Alcohol	100		98		70-130		2		20
Styrene	105		105		70-130		0		20
Dichlorodifluoromethane	120		120		36-147		0		20
Acetone	110		99		58-148		11		20
Carbon disulfide	100		97		51-130		3		20
2-Butanone	100		100		63-138		0		20
4-Methyl-2-pentanone	98		99		59-130		1		20
2-Hexanone	95		96		57-130		1		20
Acrolein	48		46		40-160		4		20
Bromochloromethane	91		93		70-130		2		20



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: WALLACE CAMPUS

Lab Number: L2043642

Project Number: 20-0213.20

Report Date: 10/19/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1422193-3 WG1422193-4								
1,2-Dibromoethane	99		100		70-130	1		20
1,1,1,2-Tetrachloroethane	95		98		64-130	3		20
n-Butylbenzene	110		110		53-136	0		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	85		91		41-144	7		20
Hexachlorobutadiene	110		100		63-130	10		20
Isopropylbenzene	110		110		70-130	0		20
p-Isopropyltoluene	110		110		70-130	0		20
n-Propylbenzene	110		110		69-130	0		20
1,2,3-Trichlorobenzene	86		92		70-130	7		20
1,2,4-Trichlorobenzene	94		96		70-130	2		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20
Methyl Acetate	81		82		70-130	1		20
Cyclohexane	98		96		70-130	2		20
1,4-Dioxane	100		90		56-162	11		20
Freon-113	100		100		70-130	0		20
Methyl cyclohexane	95		93		70-130	2		20

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: WALLACE CAMPUS

Project Number: 20-0213.20

Lab Number: L2043642

Report Date: 10/19/20

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

Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1422193-3 WG1422193-4

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		101		70-130
Toluene-d8	104		105		70-130
4-Bromofluorobenzene	111		110		70-130
Dibromofluoromethane	91		91		70-130

# SEMIVOLATILES

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-01  
 Client ID: MW-01 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Groundwater  
 Analytical Method: 1,8270D  
 Analytical Date: 10/14/20 04:00  
 Analyst: JG

Extraction Method: EPA 3510C  
 Extraction Date: 10/13/20 15:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Benzidine	ND		ug/l	20	1.8	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
Azobenzene	ND		ug/l	2.0	0.37	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
Aniline	ND		ug/l	2.0	0.68	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

**Lab ID:** L2043642-01  
**Client ID:** MW-01 20201012  
**Sample Location:** Not Specified

**Date Collected:** 10/12/20 00:00  
**Date Received:** 10/12/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
1-Methylnaphthalene	ND		ug/l	2.0	0.45	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
n-Nitrosodimethylamine	ND		ug/l	2.0	0.76	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1
Pyridine	ND		ug/l	3.5	1.8	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-01  
 Client ID: MW-01 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

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

## Tentatively Identified Compounds

Total TIC Compounds	9.59	J	ug/l			1
Unknown	2.40	J	ug/l			1
Unknown	3.74	J	ug/l			1
Unknown	1.78	J	ug/l			1
Unknown	1.67	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	64		10-120
4-Terphenyl-d14	72		41-149

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-01  
 Client ID: MW-01 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Groundwater  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 10/14/20 16:10  
 Analyst: RP

Extraction Method: EPA 3510C  
 Extraction Date: 10/13/20 15:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
Acenaphthene	0.03	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.02	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.02	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.02	J	ug/l	0.10	0.01	1
Phenanthrene	0.07	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.03	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1



**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-01  
 Client ID: MW-01 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	94		10-120
4-Terphenyl-d14	89		41-149

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-02  
 Client ID: MW-02 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Groundwater  
 Analytical Method: 1,8270D  
 Analytical Date: 10/14/20 04:23  
 Analyst: JG

Extraction Method: EPA 3510C  
 Extraction Date: 10/13/20 15:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Benzidine	ND		ug/l	20	1.8	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
Azobenzene	ND		ug/l	2.0	0.37	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
Aniline	ND		ug/l	2.0	0.68	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-02  
 Client ID: MW-02 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
1-Methylnaphthalene	ND		ug/l	2.0	0.45	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
n-Nitrosodimethylamine	ND		ug/l	2.0	0.76	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1
Pyridine	ND		ug/l	3.5	1.8	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-02  
 Client ID: MW-02 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

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

## Tentatively Identified Compounds

Total TIC Compounds	32.2	J	ug/l			1
Unknown Organic Acid	3.64	J	ug/l			1
Unknown Alkane	1.85	J	ug/l			1
Unknown Alkane	3.42	J	ug/l			1
Unknown	3.56	J	ug/l			1
Unknown Alkane	3.02	J	ug/l			1
Unknown Alkane	4.47	J	ug/l			1
Unknown Alkane	2.51	J	ug/l			1
Unknown Alkane	1.53	J	ug/l			1
Unknown Organic Acid	2.14	J	ug/l			1
Unknown Alkane	4.44	J	ug/l			1
Unknown Alkane	1.60	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	52		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	63		10-120
4-Terphenyl-d14	65		41-149

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-02  
 Client ID: MW-02 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Groundwater  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 10/14/20 16:49  
 Analyst: RP

Extraction Method: EPA 3510C  
 Extraction Date: 10/13/20 15:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-02  
 Client ID: MW-02 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	87		15-120
2,4,6-Tribromophenol	88		10-120
4-Terphenyl-d14	89		41-149

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-03  
 Client ID: MW-03 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Groundwater  
 Analytical Method: 1,8270D  
 Analytical Date: 10/14/20 04:47  
 Analyst: JG

Extraction Method: EPA 3510C  
 Extraction Date: 10/13/20 15:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Benzidine	ND		ug/l	20	1.8	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
Azobenzene	ND		ug/l	2.0	0.37	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
Aniline	ND		ug/l	2.0	0.68	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1



**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

**Lab ID:** L2043642-03  
**Client ID:** MW-03 20201012  
**Sample Location:** Not Specified

**Date Collected:** 10/12/20 00:00  
**Date Received:** 10/12/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
1-Methylnaphthalene	ND		ug/l	2.0	0.45	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
n-Nitrosodimethylamine	ND		ug/l	2.0	0.76	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1
Pyridine	ND		ug/l	3.5	1.8	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-03  
 Client ID: MW-03 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

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

## Tentatively Identified Compounds

Total TIC Compounds	13.5	J	ug/l			1
Unknown	3.67	J	ug/l			1
Unknown	2.73	J	ug/l			1
Unknown	1.71	J	ug/l			1
Unknown	1.60	J	ug/l			1
Unknown	1.96	J	ug/l			1
Unknown	1.85	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		21-120
Phenol-d6	51		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	63		10-120
4-Terphenyl-d14	65		41-149

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-03  
 Client ID: MW-03 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Groundwater  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 10/14/20 17:08  
 Analyst: RP

Extraction Method: EPA 3510C  
 Extraction Date: 10/13/20 15:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-03  
 Client ID: MW-03 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	88		10-120
4-Terphenyl-d14	89		41-149

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-04  
 Client ID: DUP 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Groundwater  
 Analytical Method: 1,8270D  
 Analytical Date: 10/14/20 05:11  
 Analyst: JG

Extraction Method: EPA 3510C  
 Extraction Date: 10/13/20 15:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Benzidine	ND		ug/l	20	1.8	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
Azobenzene	ND		ug/l	2.0	0.37	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
Aniline	ND		ug/l	2.0	0.68	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

**Lab ID:** L2043642-04  
**Client ID:** DUP 20201012  
**Sample Location:** Not Specified

**Date Collected:** 10/12/20 00:00  
**Date Received:** 10/12/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
1-Methylnaphthalene	ND		ug/l	2.0	0.45	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
n-Nitrosodimethylamine	ND		ug/l	2.0	0.76	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1
Pyridine	ND		ug/l	3.5	1.8	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

**Tentatively Identified Compounds**

Total TIC Compounds	5.27	J	ug/l	1
Unknown Alcohol	3.78	J	ug/l	1
Unknown Amide	1.49	J	ug/l	1

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-04  
 Client ID: DUP 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		21-120
Phenol-d6	52		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	63		10-120
4-Terphenyl-d14	68		41-149



**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-04  
 Client ID: DUP 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Groundwater  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 10/14/20 17:27  
 Analyst: RP

Extraction Method: EPA 3510C  
 Extraction Date: 10/13/20 15:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-04  
 Client ID: DUP 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	52		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	88		15-120
2,4,6-Tribromophenol	101		10-120
4-Terphenyl-d14	95		41-149

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 10/13/20 10:08  
Analyst: JG

Extraction Method: EPA 3510C  
Extraction Date: 10/12/20 23:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1421266-1					
Benzidine	ND		ug/l	20	1.8
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Azobenzene	ND		ug/l	2.0	0.37
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
Aniline	ND		ug/l	2.0	0.68
4-Chloroaniline	ND		ug/l	5.0	1.1
1-Methylnaphthalene	ND		ug/l	2.0	0.45

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 10/13/20 10:08  
Analyst: JG

Extraction Method: EPA 3510C  
Extraction Date: 10/12/20 23:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1421266-1					
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
n-Nitrosodimethylamine	ND		ug/l	2.0	0.76
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49
Pyridine	ND		ug/l	3.5	1.8
Atrazine	ND		ug/l	10	0.76
Benzaldehyde	ND		ug/l	5.0	0.53
Caprolactam	ND		ug/l	10	3.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 10/13/20 10:08  
Analyst: JG

Extraction Method: EPA 3510C  
Extraction Date: 10/12/20 23:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1421266-1					

Tentatively Identified Compounds

Total TIC Compounds	4.22	J	ug/l		
Unknown	4.22	J	ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		21-120
Phenol-d6	57		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	88		15-120
2,4,6-Tribromophenol	119		10-120
4-Terphenyl-d14	108		41-149

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D-SIM  
Analytical Date: 10/13/20 14:41  
Analyst: JRW

Extraction Method: EPA 3510C  
Extraction Date: 10/12/20 23:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-04 Batch: WG1421267-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D-SIM  
Analytical Date: 10/13/20 14:41  
Analyst: JRW

Extraction Method: EPA 3510C  
Extraction Date: 10/12/20 23:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-04 Batch: WG1421267-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		21-120
Phenol-d6	65		10-120
Nitrobenzene-d5	108		23-120
2-Fluorobiphenyl	114		15-120
2,4,6-Tribromophenol	<b>127</b>	Q	10-120
4-Terphenyl-d14	119		41-149



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: WALLACE CAMPUS

Lab Number: L2043642

Project Number: 20-0213.20

Report Date: 10/19/20

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1421266-2 WG1421266-3								
Benzidine	5	Q	7	Q	10-75	26		30
1,2,4-Trichlorobenzene	74		82		39-98	10		30
Bis(2-chloroethyl)ether	70		76		40-140	8		30
1,2-Dichlorobenzene	66		76		40-140	14		30
1,3-Dichlorobenzene	67		74		40-140	10		30
1,4-Dichlorobenzene	68		74		36-97	8		30
3,3'-Dichlorobenzidine	78		82		40-140	5		30
2,4-Dinitrotoluene	96		96		48-143	0		30
2,6-Dinitrotoluene	91		101		40-140	10		30
Azobenzene	74		77		40-140	4		30
4-Chlorophenyl phenyl ether	89		91		40-140	2		30
4-Bromophenyl phenyl ether	102		109		40-140	7		30
Bis(2-chloroisopropyl)ether	75		75		40-140	0		30
Bis(2-chloroethoxy)methane	73		79		40-140	8		30
Hexachlorocyclopentadiene	89		97		40-140	9		30
Isophorone	70		76		40-140	8		30
Nitrobenzene	81		86		40-140	6		30
NDPA/DPA	85		89		40-140	5		30
n-Nitrosodi-n-propylamine	78		78		29-132	0		30
Bis(2-ethylhexyl)phthalate	80		82		40-140	2		30
Butyl benzyl phthalate	100		102		40-140	2		30
Di-n-butylphthalate	88		92		40-140	4		30
Di-n-octylphthalate	76		75		40-140	1		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: WALLACE CAMPUS

Lab Number: L2043642

Project Number: 20-0213.20

Report Date: 10/19/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1421266-2 WG1421266-3								
Diethyl phthalate	88		89		40-140	1		30
Dimethyl phthalate	78		85		40-140	9		30
Biphenyl	74		82		40-140	10		30
Aniline	5	Q	6	Q	40-140	16		30
4-Chloroaniline	0	Q	0	Q	40-140	NC		30
1-Methylnaphthalene	72		76		41-103	5		30
2-Nitroaniline	92		103		52-143	11		30
3-Nitroaniline	35		42		25-145	18		30
4-Nitroaniline	78		80		51-143	3		30
Dibenzofuran	82		87		40-140	6		30
1,2,4,5-Tetrachlorobenzene	101		104		2-134	3		30
Acetophenone	74		77		39-129	4		30
n-Nitrosodimethylamine	56		66		22-74	16		30
2,4,6-Trichlorophenol	99		111		30-130	11		30
p-Chloro-m-cresol	85		94		23-97	10		30
2-Chlorophenol	76		86		27-123	12		30
2,4-Dichlorophenol	83		94		30-130	12		30
2,4-Dimethylphenol	73		81		30-130	10		30
2-Nitrophenol	96		102		30-130	6		30
4-Nitrophenol	88	Q	93	Q	10-80	6		30
2,4-Dinitrophenol	106		97		20-130	9		30
4,6-Dinitro-o-cresol	117		119		20-164	2		30
Phenol	53		57		12-110	7		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: WALLACE CAMPUS

Lab Number: L2043642

Project Number: 20-0213.20

Report Date: 10/19/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1421266-2 WG1421266-3								
2-Methylphenol	75		81		30-130	8		30
3-Methylphenol/4-Methylphenol	73		79		30-130	8		30
2,4,5-Trichlorophenol	100		109		30-130	9		30
Benzoic Acid	77		71		10-164	8		30
Benzyl Alcohol	69		81		26-116	16		30
Carbazole	87		91		55-144	4		30
Pyridine	16		22		10-66	32	Q	30
Atrazine	116		124		40-140	7		30
Benzaldehyde	72		75		40-140	4		30
Caprolactam	42		52		10-130	21		30
2,3,4,6-Tetrachlorophenol	122		128		40-140	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	69		77		21-120
Phenol-d6	59		64		10-120
Nitrobenzene-d5	87		96		23-120
2-Fluorobiphenyl	87		91		15-120
2,4,6-Tribromophenol	133	Q	132	Q	10-120
4-Terphenyl-d14	101		103		41-149

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: WALLACE CAMPUS

Lab Number: L2043642

Project Number: 20-0213.20

Report Date: 10/19/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-04 Batch: WG1421267-2 WG1421267-3								
Acenaphthene	98		92		40-140	6		40
2-Chloronaphthalene	103		97		40-140	6		40
Fluoranthene	117		112		40-140	4		40
Hexachlorobutadiene	93		88		40-140	6		40
Naphthalene	92		86		40-140	7		40
Benzo(a)anthracene	116		110		40-140	5		40
Benzo(a)pyrene	131		126		40-140	4		40
Benzo(b)fluoranthene	112		109		40-140	3		40
Benzo(k)fluoranthene	124		118		40-140	5		40
Chrysene	112		110		40-140	2		40
Acenaphthylene	117		110		40-140	6		40
Anthracene	115		110		40-140	4		40
Benzo(ghi)perylene	128		124		40-140	3		40
Fluorene	106		101		40-140	5		40
Phenanthrene	101		97		40-140	4		40
Dibenzo(a,h)anthracene	141	Q	136		40-140	4		40
Indeno(1,2,3-cd)pyrene	138		132		40-140	4		40
Pyrene	116		111		40-140	4		40
2-Methylnaphthalene	102		95		40-140	7		40
Pentachlorophenol	161	Q	150	Q	40-140	7		40
Hexachlorobenzene	101		98		40-140	3		40
Hexachloroethane	89		83		40-140	7		40

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: WALLACE CAMPUS

Lab Number: L2043642

Project Number: 20-0213.20

Report Date: 10/19/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-04 Batch: WG1421267-2 WG1421267-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	75		69		21-120
Phenol-d6	63		57		10-120
Nitrobenzene-d5	114		115		23-120
2-Fluorobiphenyl	110		103		15-120
2,4,6-Tribromophenol	<b>128</b>	Q	<b>125</b>	Q	10-120
4-Terphenyl-d14	122		117		41-149

# PCBS

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-01  
 Client ID: MW-01 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Groundwater  
 Analytical Method: 1,8082A  
 Analytical Date: 10/14/20 17:03  
 Analyst: JAW

Extraction Method: EPA 3510C  
 Extraction Date: 10/13/20 17:16  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 10/14/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 10/14/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	72		30-150	B



**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-02  
 Client ID: MW-02 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Groundwater  
 Analytical Method: 1,8082A  
 Analytical Date: 10/14/20 17:11  
 Analyst: JAW

Extraction Method: EPA 3510C  
 Extraction Date: 10/13/20 17:16  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 10/14/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 10/14/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	75		30-150	B

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

**Lab ID:** L2043642-03  
**Client ID:** MW-03 20201012  
**Sample Location:** Not Specified

**Date Collected:** 10/12/20 00:00  
**Date Received:** 10/12/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Groundwater  
**Analytical Method:** 1,8082A  
**Analytical Date:** 10/14/20 17:19  
**Analyst:** JAW

**Extraction Method:** EPA 3510C  
**Extraction Date:** 10/13/20 17:16  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 10/14/20  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 10/14/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	67		30-150	B

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-04  
 Client ID: DUP 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Groundwater  
 Analytical Method: 1,8082A  
 Analytical Date: 10/14/20 17:27  
 Analyst: JAW

Extraction Method: EPA 3510C  
 Extraction Date: 10/13/20 17:16  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 10/14/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 10/14/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	81		30-150	B

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8082A  
Analytical Date: 10/14/20 10:59  
Analyst: JM

Extraction Method: EPA 3510C  
Extraction Date: 10/13/20 17:16  
Cleanup Method: EPA 3665A  
Cleanup Date: 10/14/20  
Cleanup Method: EPA 3660B  
Cleanup Date: 10/14/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-04 Batch: WG1421677-1						
Aroclor 1016	ND		ug/l	0.083	0.034	A
Aroclor 1221	ND		ug/l	0.083	0.067	A
Aroclor 1232	ND		ug/l	0.083	0.046	A
Aroclor 1242	ND		ug/l	0.083	0.039	A
Aroclor 1248	ND		ug/l	0.083	0.049	A
Aroclor 1254	ND		ug/l	0.083	0.039	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.035	A
Aroclor 1268	ND		ug/l	0.083	0.034	A
PCBs, Total	ND		ug/l	0.083	0.032	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	86		30-150	B

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1421677-2 WG1421677-3									
Aroclor 1016	91		89		40-140	2		50	A
Aroclor 1260	77		76		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		87		30-150	A
Decachlorobiphenyl	70		66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		86		30-150	B
Decachlorobiphenyl	82		85		30-150	B



# PESTICIDES

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-01  
 Client ID: MW-01 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Groundwater  
 Analytical Method: 1,8081B  
 Analytical Date: 10/14/20 15:04  
 Analyst: DGM

Extraction Method: EPA 3510C  
 Extraction Date: 10/13/20 17:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	64		30-150	B





**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-02  
 Client ID: MW-02 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Groundwater  
 Analytical Method: 1,8081B  
 Analytical Date: 10/14/20 15:17  
 Analyst: DGM

Extraction Method: EPA 3510C  
 Extraction Date: 10/13/20 17:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	73		30-150	B



**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-03  
 Client ID: MW-03 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Groundwater  
 Analytical Method: 1,8081B  
 Analytical Date: 10/14/20 15:30  
 Analyst: DGM

Extraction Method: EPA 3510C  
 Extraction Date: 10/13/20 17:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	82		30-150	B



**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**SAMPLE RESULTS**

Lab ID: L2043642-04  
 Client ID: DUP 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Groundwater  
 Analytical Method: 1,8081B  
 Analytical Date: 10/14/20 15:43  
 Analyst: DGM

Extraction Method: EPA 3510C  
 Extraction Date: 10/13/20 17:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	70		30-150	B

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 10/14/20 13:08  
Analyst: DGM

Extraction Method: EPA 3510C  
Extraction Date: 10/13/20 17:16

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-04 Batch: WG1421674-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
Chlordane	ND		ug/l	0.143	0.033	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	76		30-150	B



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: WALLACE CAMPUS

Lab Number: L2043642

Project Number: 20-0213.20

Report Date: 10/19/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1421674-2 WG1421674-3									
Delta-BHC	66		72		30-150	9		20	A
Lindane	74		80		30-150	7		20	A
Alpha-BHC	77		83		30-150	7		20	A
Beta-BHC	71		77		30-150	8		20	A
Heptachlor	72		80		30-150	11		20	A
Aldrin	75		85		30-150	13		20	A
Heptachlor epoxide	72		85		30-150	17		20	A
Endrin	77		88		30-150	12		20	A
Endrin aldehyde	71		89		30-150	23	Q	20	A
Endrin ketone	82		96		30-150	16		20	A
Dieldrin	80		94		30-150	15		20	A
4,4'-DDE	75		91		30-150	19		20	A
4,4'-DDD	85		101		30-150	17		20	A
4,4'-DDT	80		96		30-150	18		20	A
Endosulfan I	75		87		30-150	16		20	A
Endosulfan II	76		86		30-150	12		20	A
Endosulfan sulfate	80		87		30-150	9		20	A
Methoxychlor	78		84		30-150	8		20	A
cis-Chlordane	68		82		30-150	18		20	A

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
-----------	-------------------------	-------------	--------------------------	-------------	----------------------------	------------	-------------	----------------------

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1421674-2 WG1421674-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	75		77		30-150	A
Decachlorobiphenyl	81		99		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		68		30-150	B
Decachlorobiphenyl	68		81		30-150	B

## METALS



Project Name: WALLACE CAMPUS

Lab Number: L2043642

Project Number: 20-0213.20

Report Date: 10/19/20

## SAMPLE RESULTS

Lab ID: L2043642-01  
 Client ID: MW-01 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Groundwater

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	0.0366		mg/l	0.0100	0.00327	1	10/14/20 05:44	10/14/20 17:11	EPA 3005A	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	10/14/20 05:44	10/14/20 17:11	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00054		mg/l	0.00050	0.00016	1	10/14/20 05:44	10/14/20 17:11	EPA 3005A	1,6020B	AM
Barium, Total	0.04411		mg/l	0.00050	0.00017	1	10/14/20 05:44	10/14/20 17:11	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	10/14/20 05:44	10/14/20 17:11	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/14/20 05:44	10/14/20 17:11	EPA 3005A	1,6020B	AM
Calcium, Total	42.0		mg/l	0.100	0.0394	1	10/14/20 05:44	10/14/20 17:11	EPA 3005A	1,6020B	AM
Chromium, Total	0.00033	J	mg/l	0.00100	0.00017	1	10/14/20 05:44	10/14/20 17:11	EPA 3005A	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	10/14/20 05:44	10/14/20 17:11	EPA 3005A	1,6020B	AM
Copper, Total	0.00091	J	mg/l	0.00100	0.00038	1	10/14/20 05:44	10/14/20 17:11	EPA 3005A	1,6020B	AM
Iron, Total	0.0583		mg/l	0.0500	0.0191	1	10/14/20 05:44	10/14/20 17:11	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	10/14/20 05:44	10/14/20 17:11	EPA 3005A	1,6020B	AM
Magnesium, Total	10.5		mg/l	0.0700	0.0242	1	10/14/20 05:44	10/14/20 17:11	EPA 3005A	1,6020B	AM
Manganese, Total	0.03677		mg/l	0.00100	0.00044	1	10/14/20 05:44	10/14/20 17:11	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/14/20 07:33	10/15/20 09:21	EPA 7470A	1,7470A	EW
Nickel, Total	ND		mg/l	0.00200	0.00055	1	10/14/20 05:44	10/14/20 17:11	EPA 3005A	1,6020B	AM
Potassium, Total	5.66		mg/l	0.100	0.0309	1	10/14/20 05:44	10/14/20 17:11	EPA 3005A	1,6020B	AM
Selenium, Total	0.00179	J	mg/l	0.00500	0.00173	1	10/14/20 05:44	10/14/20 17:11	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	10/14/20 05:44	10/14/20 17:11	EPA 3005A	1,6020B	AM
Sodium, Total	82.4		mg/l	0.100	0.0293	1	10/14/20 05:44	10/14/20 17:11	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	10/14/20 05:44	10/14/20 17:11	EPA 3005A	1,6020B	AM
Vanadium, Total	0.00158	J	mg/l	0.00500	0.00157	1	10/14/20 05:44	10/14/20 17:11	EPA 3005A	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	10/14/20 05:44	10/14/20 17:11	EPA 3005A	1,6020B	AM
<b>Dissolved Metals - Mansfield Lab</b>											
Aluminum, Dissolved	0.0112		mg/l	0.0100	0.00327	1	10/14/20 10:42	10/14/20 18:33	EPA 3005A	1,6020B	AM
Antimony, Dissolved	0.00089	J	mg/l	0.00400	0.00042	1	10/14/20 10:42	10/14/20 18:33	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	0.00046	J	mg/l	0.00050	0.00016	1	10/14/20 10:42	10/14/20 18:33	EPA 3005A	1,6020B	AM
Barium, Dissolved	0.04277		mg/l	0.00050	0.00017	1	10/14/20 10:42	10/14/20 18:33	EPA 3005A	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	10/14/20 10:42	10/14/20 18:33	EPA 3005A	1,6020B	AM



Project Name: WALLACE CAMPUS

Lab Number: L2043642

Project Number: 20-0213.20

Report Date: 10/19/20

## SAMPLE RESULTS

Lab ID: L2043642-01  
 Client ID: MW-01 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Groundwater

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	10/14/20 10:42	10/14/20 18:33	EPA 3005A	1,6020B	AM
Calcium, Dissolved	42.0		mg/l	0.100	0.0394	1	10/14/20 10:42	10/14/20 18:33	EPA 3005A	1,6020B	AM
Chromium, Dissolved	0.00033	J	mg/l	0.00100	0.00017	1	10/14/20 10:42	10/14/20 18:33	EPA 3005A	1,6020B	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	10/14/20 10:42	10/14/20 18:33	EPA 3005A	1,6020B	AM
Copper, Dissolved	0.00081	J	mg/l	0.00100	0.00038	1	10/14/20 10:42	10/14/20 18:33	EPA 3005A	1,6020B	AM
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	10/14/20 10:42	10/14/20 18:33	EPA 3005A	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	10/14/20 10:42	10/14/20 18:33	EPA 3005A	1,6020B	AM
Magnesium, Dissolved	10.0		mg/l	0.0700	0.0242	1	10/14/20 10:42	10/14/20 18:33	EPA 3005A	1,6020B	AM
Manganese, Dissolved	0.03107		mg/l	0.00100	0.00044	1	10/14/20 10:42	10/14/20 18:33	EPA 3005A	1,6020B	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	10/14/20 10:47	10/15/20 07:56	EPA 7470A	1,7470A	EW
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	10/14/20 10:42	10/14/20 18:33	EPA 3005A	1,6020B	AM
Potassium, Dissolved	5.56		mg/l	0.100	0.0309	1	10/14/20 10:42	10/14/20 18:33	EPA 3005A	1,6020B	AM
Selenium, Dissolved	0.00188	J	mg/l	0.00500	0.00173	1	10/14/20 10:42	10/14/20 18:33	EPA 3005A	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	10/14/20 10:42	10/14/20 18:33	EPA 3005A	1,6020B	AM
Sodium, Dissolved	80.4		mg/l	0.100	0.0293	1	10/14/20 10:42	10/14/20 18:33	EPA 3005A	1,6020B	AM
Thallium, Dissolved	0.00020	J	mg/l	0.00050	0.00014	1	10/14/20 10:42	10/14/20 18:33	EPA 3005A	1,6020B	AM
Vanadium, Dissolved	0.00172	J	mg/l	0.00500	0.00157	1	10/14/20 10:42	10/14/20 18:33	EPA 3005A	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	10/14/20 10:42	10/14/20 18:33	EPA 3005A	1,6020B	AM



Project Name: WALLACE CAMPUS

Lab Number: L2043642

Project Number: 20-0213.20

Report Date: 10/19/20

## SAMPLE RESULTS

Lab ID: L2043642-02  
 Client ID: MW-02 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Groundwater

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	0.406		mg/l	0.0100	0.00327	1	10/14/20 05:44	10/14/20 17:16	EPA 3005A	1,6020B	AM
Antimony, Total	0.00111	J	mg/l	0.00400	0.00042	1	10/14/20 05:44	10/14/20 17:16	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00077		mg/l	0.00050	0.00016	1	10/14/20 05:44	10/14/20 17:16	EPA 3005A	1,6020B	AM
Barium, Total	0.1037		mg/l	0.00050	0.00017	1	10/14/20 05:44	10/14/20 17:16	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	10/14/20 05:44	10/14/20 17:16	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/14/20 05:44	10/14/20 17:16	EPA 3005A	1,6020B	AM
Calcium, Total	40.4		mg/l	0.100	0.0394	1	10/14/20 05:44	10/14/20 17:16	EPA 3005A	1,6020B	AM
Chromium, Total	0.00065	J	mg/l	0.00100	0.00017	1	10/14/20 05:44	10/14/20 17:16	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00050		mg/l	0.00050	0.00016	1	10/14/20 05:44	10/14/20 17:16	EPA 3005A	1,6020B	AM
Copper, Total	0.00215		mg/l	0.00100	0.00038	1	10/14/20 05:44	10/14/20 17:16	EPA 3005A	1,6020B	AM
Iron, Total	0.850		mg/l	0.0500	0.0191	1	10/14/20 05:44	10/14/20 17:16	EPA 3005A	1,6020B	AM
Lead, Total	0.00076	J	mg/l	0.00100	0.00034	1	10/14/20 05:44	10/14/20 17:16	EPA 3005A	1,6020B	AM
Magnesium, Total	16.3		mg/l	0.0700	0.0242	1	10/14/20 05:44	10/14/20 17:16	EPA 3005A	1,6020B	AM
Manganese, Total	0.08309		mg/l	0.00100	0.00044	1	10/14/20 05:44	10/14/20 17:16	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/14/20 07:33	10/15/20 09:24	EPA 7470A	1,7470A	EW
Nickel, Total	0.00106	J	mg/l	0.00200	0.00055	1	10/14/20 05:44	10/14/20 17:16	EPA 3005A	1,6020B	AM
Potassium, Total	2.29		mg/l	0.100	0.0309	1	10/14/20 05:44	10/14/20 17:16	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	10/14/20 05:44	10/14/20 17:16	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	10/14/20 05:44	10/14/20 17:16	EPA 3005A	1,6020B	AM
Sodium, Total	121.		mg/l	0.100	0.0293	1	10/14/20 05:44	10/14/20 17:16	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	10/14/20 05:44	10/14/20 17:16	EPA 3005A	1,6020B	AM
Vanadium, Total	0.00248	J	mg/l	0.00500	0.00157	1	10/14/20 05:44	10/14/20 17:16	EPA 3005A	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	10/14/20 05:44	10/14/20 17:16	EPA 3005A	1,6020B	AM
<b>Dissolved Metals - Mansfield Lab</b>											
Aluminum, Dissolved	0.0119		mg/l	0.0100	0.00327	1	10/14/20 10:42	10/14/20 18:38	EPA 3005A	1,6020B	AM
Antimony, Dissolved	0.00155	J	mg/l	0.00400	0.00042	1	10/14/20 10:42	10/14/20 18:38	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	0.00048	J	mg/l	0.00050	0.00016	1	10/14/20 10:42	10/14/20 18:38	EPA 3005A	1,6020B	AM
Barium, Dissolved	0.1000		mg/l	0.00050	0.00017	1	10/14/20 10:42	10/14/20 18:38	EPA 3005A	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	10/14/20 10:42	10/14/20 18:38	EPA 3005A	1,6020B	AM



Project Name: WALLACE CAMPUS

Lab Number: L2043642

Project Number: 20-0213.20

Report Date: 10/19/20

## SAMPLE RESULTS

Lab ID: L2043642-02

Date Collected: 10/12/20 00:00

Client ID: MW-02 20201012

Date Received: 10/12/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Groundwater

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	10/14/20 10:42	10/14/20 18:38	EPA 3005A	1,6020B	AM
Calcium, Dissolved	38.7		mg/l	0.100	0.0394	1	10/14/20 10:42	10/14/20 18:38	EPA 3005A	1,6020B	AM
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	10/14/20 10:42	10/14/20 18:38	EPA 3005A	1,6020B	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	10/14/20 10:42	10/14/20 18:38	EPA 3005A	1,6020B	AM
Copper, Dissolved	0.00090	J	mg/l	0.00100	0.00038	1	10/14/20 10:42	10/14/20 18:38	EPA 3005A	1,6020B	AM
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	10/14/20 10:42	10/14/20 18:38	EPA 3005A	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	10/14/20 10:42	10/14/20 18:38	EPA 3005A	1,6020B	AM
Magnesium, Dissolved	15.9		mg/l	0.0700	0.0242	1	10/14/20 10:42	10/14/20 18:38	EPA 3005A	1,6020B	AM
Manganese, Dissolved	0.05681		mg/l	0.00100	0.00044	1	10/14/20 10:42	10/14/20 18:38	EPA 3005A	1,6020B	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	10/14/20 10:47	10/15/20 08:02	EPA 7470A	1,7470A	EW
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	10/14/20 10:42	10/14/20 18:38	EPA 3005A	1,6020B	AM
Potassium, Dissolved	2.26		mg/l	0.100	0.0309	1	10/14/20 10:42	10/14/20 18:38	EPA 3005A	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	10/14/20 10:42	10/14/20 18:38	EPA 3005A	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	10/14/20 10:42	10/14/20 18:38	EPA 3005A	1,6020B	AM
Sodium, Dissolved	119.		mg/l	0.100	0.0293	1	10/14/20 10:42	10/14/20 18:38	EPA 3005A	1,6020B	AM
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	10/14/20 10:42	10/14/20 18:38	EPA 3005A	1,6020B	AM
Vanadium, Dissolved	0.00178	J	mg/l	0.00500	0.00157	1	10/14/20 10:42	10/14/20 18:38	EPA 3005A	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	10/14/20 10:42	10/14/20 18:38	EPA 3005A	1,6020B	AM



Project Name: WALLACE CAMPUS

Lab Number: L2043642

Project Number: 20-0213.20

Report Date: 10/19/20

## SAMPLE RESULTS

Lab ID: L2043642-03  
 Client ID: MW-03 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Groundwater

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	0.213		mg/l	0.0100	0.00327	1	10/14/20 05:44	10/14/20 17:21	EPA 3005A	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	10/14/20 05:44	10/14/20 17:21	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00205		mg/l	0.00050	0.00016	1	10/14/20 05:44	10/14/20 17:21	EPA 3005A	1,6020B	AM
Barium, Total	0.05686		mg/l	0.00050	0.00017	1	10/14/20 05:44	10/14/20 17:21	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	10/14/20 05:44	10/14/20 17:21	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00012	J	mg/l	0.00020	0.00005	1	10/14/20 05:44	10/14/20 17:21	EPA 3005A	1,6020B	AM
Calcium, Total	132.		mg/l	0.100	0.0394	1	10/14/20 05:44	10/14/20 17:21	EPA 3005A	1,6020B	AM
Chromium, Total	0.00030	J	mg/l	0.00100	0.00017	1	10/14/20 05:44	10/14/20 17:21	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00184		mg/l	0.00050	0.00016	1	10/14/20 05:44	10/14/20 17:21	EPA 3005A	1,6020B	AM
Copper, Total	0.00149		mg/l	0.00100	0.00038	1	10/14/20 05:44	10/14/20 17:21	EPA 3005A	1,6020B	AM
Iron, Total	0.788		mg/l	0.0500	0.0191	1	10/14/20 05:44	10/14/20 17:21	EPA 3005A	1,6020B	AM
Lead, Total	0.00114		mg/l	0.00100	0.00034	1	10/14/20 05:44	10/14/20 17:21	EPA 3005A	1,6020B	AM
Magnesium, Total	24.6		mg/l	0.0700	0.0242	1	10/14/20 05:44	10/14/20 17:21	EPA 3005A	1,6020B	AM
Manganese, Total	0.8121		mg/l	0.00100	0.00044	1	10/14/20 05:44	10/14/20 17:21	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/14/20 07:33	10/15/20 09:26	EPA 7470A	1,7470A	EW
Nickel, Total	0.00306		mg/l	0.00200	0.00055	1	10/14/20 05:44	10/14/20 17:21	EPA 3005A	1,6020B	AM
Potassium, Total	22.6		mg/l	0.100	0.0309	1	10/14/20 05:44	10/14/20 17:21	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	10/14/20 05:44	10/14/20 17:21	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	10/14/20 05:44	10/14/20 17:21	EPA 3005A	1,6020B	AM
Sodium, Total	529.		mg/l	5.00	1.46	50	10/14/20 05:44	10/15/20 11:22	EPA 3005A	1,6020B	AM
Thallium, Total	0.00023	J	mg/l	0.00050	0.00014	1	10/14/20 05:44	10/14/20 17:21	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	10/14/20 05:44	10/14/20 17:21	EPA 3005A	1,6020B	AM
Zinc, Total	0.00534	J	mg/l	0.01000	0.00341	1	10/14/20 05:44	10/14/20 17:21	EPA 3005A	1,6020B	AM
<b>Dissolved Metals - Mansfield Lab</b>											
Aluminum, Dissolved	ND		mg/l	0.100	0.0327	10	10/14/20 10:42	10/14/20 18:43	EPA 3005A	1,6020B	AM
Antimony, Dissolved	ND		mg/l	0.04000	0.00429	10	10/14/20 10:42	10/14/20 18:43	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	ND		mg/l	0.00500	0.00165	10	10/14/20 10:42	10/14/20 18:43	EPA 3005A	1,6020B	AM
Barium, Dissolved	0.05174		mg/l	0.00500	0.00173	10	10/14/20 10:42	10/14/20 18:43	EPA 3005A	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00500	0.00107	10	10/14/20 10:42	10/14/20 18:43	EPA 3005A	1,6020B	AM



Project Name: WALLACE CAMPUS

Lab Number: L2043642

Project Number: 20-0213.20

Report Date: 10/19/20

## SAMPLE RESULTS

Lab ID: L2043642-03

Date Collected: 10/12/20 00:00

Client ID: MW-03 20201012

Date Received: 10/12/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Groundwater

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00200	0.00059	10	10/14/20 10:42	10/14/20 18:43	EPA 3005A	1,6020B	AM
Calcium, Dissolved	150.		mg/l	1.00	0.394	10	10/14/20 10:42	10/14/20 18:43	EPA 3005A	1,6020B	AM
Chromium, Dissolved	ND		mg/l	0.01000	0.00178	10	10/14/20 10:42	10/14/20 18:43	EPA 3005A	1,6020B	AM
Cobalt, Dissolved	ND		mg/l	0.00500	0.00163	10	10/14/20 10:42	10/14/20 18:43	EPA 3005A	1,6020B	AM
Copper, Dissolved	ND		mg/l	0.01000	0.00384	10	10/14/20 10:42	10/14/20 18:43	EPA 3005A	1,6020B	AM
Iron, Dissolved	ND		mg/l	0.500	0.191	10	10/14/20 10:42	10/14/20 18:43	EPA 3005A	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.01000	0.00343	10	10/14/20 10:42	10/14/20 18:43	EPA 3005A	1,6020B	AM
Magnesium, Dissolved	24.2		mg/l	0.700	0.242	10	10/14/20 10:42	10/14/20 18:43	EPA 3005A	1,6020B	AM
Manganese, Dissolved	0.8932		mg/l	0.01000	0.00440	10	10/14/20 10:42	10/14/20 18:43	EPA 3005A	1,6020B	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	10/14/20 10:47	10/15/20 08:05	EPA 7470A	1,7470A	EW
Nickel, Dissolved	ND		mg/l	0.02000	0.00556	10	10/14/20 10:42	10/14/20 18:43	EPA 3005A	1,6020B	AM
Potassium, Dissolved	23.8		mg/l	1.00	0.309	10	10/14/20 10:42	10/14/20 18:43	EPA 3005A	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.0500	0.0173	10	10/14/20 10:42	10/14/20 18:43	EPA 3005A	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00400	0.00163	10	10/14/20 10:42	10/14/20 18:43	EPA 3005A	1,6020B	AM
Sodium, Dissolved	575.		mg/l	1.00	0.293	10	10/14/20 10:42	10/14/20 18:43	EPA 3005A	1,6020B	AM
Thallium, Dissolved	ND		mg/l	0.00500	0.00143	10	10/14/20 10:42	10/14/20 18:43	EPA 3005A	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.05000	0.01570	10	10/14/20 10:42	10/14/20 18:43	EPA 3005A	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.1000	0.03410	10	10/14/20 10:42	10/14/20 18:43	EPA 3005A	1,6020B	AM



Project Name: WALLACE CAMPUS

Lab Number: L2043642

Project Number: 20-0213.20

Report Date: 10/19/20

## SAMPLE RESULTS

Lab ID: L2043642-04  
 Client ID: DUP 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Groundwater

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	0.408		mg/l	0.0100	0.00327	1	10/14/20 05:44	10/14/20 17:27	EPA 3005A	1,6020B	AM
Antimony, Total	0.00103	J	mg/l	0.00400	0.00042	1	10/14/20 05:44	10/14/20 17:27	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00089		mg/l	0.00050	0.00016	1	10/14/20 05:44	10/14/20 17:27	EPA 3005A	1,6020B	AM
Barium, Total	0.1015		mg/l	0.00050	0.00017	1	10/14/20 05:44	10/14/20 17:27	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	10/14/20 05:44	10/14/20 17:27	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/14/20 05:44	10/14/20 17:27	EPA 3005A	1,6020B	AM
Calcium, Total	38.0		mg/l	0.100	0.0394	1	10/14/20 05:44	10/14/20 17:27	EPA 3005A	1,6020B	AM
Chromium, Total	0.00059	J	mg/l	0.00100	0.00017	1	10/14/20 05:44	10/14/20 17:27	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00062		mg/l	0.00050	0.00016	1	10/14/20 05:44	10/14/20 17:27	EPA 3005A	1,6020B	AM
Copper, Total	0.00205		mg/l	0.00100	0.00038	1	10/14/20 05:44	10/14/20 17:27	EPA 3005A	1,6020B	AM
Iron, Total	0.822		mg/l	0.0500	0.0191	1	10/14/20 05:44	10/14/20 17:27	EPA 3005A	1,6020B	AM
Lead, Total	0.00082	J	mg/l	0.00100	0.00034	1	10/14/20 05:44	10/14/20 17:27	EPA 3005A	1,6020B	AM
Magnesium, Total	15.8		mg/l	0.0700	0.0242	1	10/14/20 05:44	10/14/20 17:27	EPA 3005A	1,6020B	AM
Manganese, Total	0.09188		mg/l	0.00100	0.00044	1	10/14/20 05:44	10/14/20 17:27	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/14/20 07:33	10/15/20 09:28	EPA 7470A	1,7470A	EW
Nickel, Total	0.00116	J	mg/l	0.00200	0.00055	1	10/14/20 05:44	10/14/20 17:27	EPA 3005A	1,6020B	AM
Potassium, Total	2.15		mg/l	0.100	0.0309	1	10/14/20 05:44	10/14/20 17:27	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	10/14/20 05:44	10/14/20 17:27	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	10/14/20 05:44	10/14/20 17:27	EPA 3005A	1,6020B	AM
Sodium, Total	128.		mg/l	0.100	0.0293	1	10/14/20 05:44	10/14/20 17:27	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	10/14/20 05:44	10/14/20 17:27	EPA 3005A	1,6020B	AM
Vanadium, Total	0.00222	J	mg/l	0.00500	0.00157	1	10/14/20 05:44	10/14/20 17:27	EPA 3005A	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	10/14/20 05:44	10/14/20 17:27	EPA 3005A	1,6020B	AM
<b>Dissolved Metals - Mansfield Lab</b>											
Aluminum, Dissolved	0.0120		mg/l	0.0100	0.00327	1	10/14/20 10:42	10/14/20 18:48	EPA 3005A	1,6020B	AM
Antimony, Dissolved	0.00129	J	mg/l	0.00400	0.00042	1	10/14/20 10:42	10/14/20 18:48	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	0.00067		mg/l	0.00050	0.00016	1	10/14/20 10:42	10/14/20 18:48	EPA 3005A	1,6020B	AM
Barium, Dissolved	0.09779		mg/l	0.00050	0.00017	1	10/14/20 10:42	10/14/20 18:48	EPA 3005A	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	10/14/20 10:42	10/14/20 18:48	EPA 3005A	1,6020B	AM





Project Name: WALLACE CAMPUS

Lab Number: L2043642

Project Number: 20-0213.20

Report Date: 10/19/20

## SAMPLE RESULTS

Lab ID: L2043642-04  
 Client ID: DUP 20201012  
 Sample Location: Not Specified

Date Collected: 10/12/20 00:00  
 Date Received: 10/12/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Groundwater

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	10/14/20 10:42	10/14/20 18:48	EPA 3005A	1,6020B	AM
Calcium, Dissolved	38.6		mg/l	0.100	0.0394	1	10/14/20 10:42	10/14/20 18:48	EPA 3005A	1,6020B	AM
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	10/14/20 10:42	10/14/20 18:48	EPA 3005A	1,6020B	AM
Cobalt, Dissolved	0.00020	J	mg/l	0.00050	0.00016	1	10/14/20 10:42	10/14/20 18:48	EPA 3005A	1,6020B	AM
Copper, Dissolved	0.00085	J	mg/l	0.00100	0.00038	1	10/14/20 10:42	10/14/20 18:48	EPA 3005A	1,6020B	AM
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	10/14/20 10:42	10/14/20 18:48	EPA 3005A	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	10/14/20 10:42	10/14/20 18:48	EPA 3005A	1,6020B	AM
Magnesium, Dissolved	15.7		mg/l	0.0700	0.0242	1	10/14/20 10:42	10/14/20 18:48	EPA 3005A	1,6020B	AM
Manganese, Dissolved	0.07607		mg/l	0.00100	0.00044	1	10/14/20 10:42	10/14/20 18:48	EPA 3005A	1,6020B	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	10/14/20 10:47	10/15/20 08:07	EPA 7470A	1,7470A	EW
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	10/14/20 10:42	10/14/20 18:48	EPA 3005A	1,6020B	AM
Potassium, Dissolved	2.15		mg/l	0.100	0.0309	1	10/14/20 10:42	10/14/20 18:48	EPA 3005A	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	10/14/20 10:42	10/14/20 18:48	EPA 3005A	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	10/14/20 10:42	10/14/20 18:48	EPA 3005A	1,6020B	AM
Sodium, Dissolved	131.		mg/l	0.100	0.0293	1	10/14/20 10:42	10/14/20 18:48	EPA 3005A	1,6020B	AM
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	10/14/20 10:42	10/14/20 18:48	EPA 3005A	1,6020B	AM
Vanadium, Dissolved	0.00177	J	mg/l	0.00500	0.00157	1	10/14/20 10:42	10/14/20 18:48	EPA 3005A	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	10/14/20 10:42	10/14/20 18:48	EPA 3005A	1,6020B	AM



**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

## Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1421590-1									
Aluminum, Total	ND	mg/l	0.0100	0.00327	1	10/14/20 05:44	10/14/20 16:05	1,6020B	AM
Antimony, Total	ND	mg/l	0.00400	0.00042	1	10/14/20 05:44	10/14/20 16:05	1,6020B	AM
Arsenic, Total	ND	mg/l	0.00050	0.00016	1	10/14/20 05:44	10/14/20 16:05	1,6020B	AM
Barium, Total	ND	mg/l	0.00050	0.00017	1	10/14/20 05:44	10/14/20 16:05	1,6020B	AM
Beryllium, Total	ND	mg/l	0.00050	0.00010	1	10/14/20 05:44	10/14/20 16:05	1,6020B	AM
Cadmium, Total	ND	mg/l	0.00020	0.00005	1	10/14/20 05:44	10/14/20 16:05	1,6020B	AM
Calcium, Total	ND	mg/l	0.100	0.0394	1	10/14/20 05:44	10/14/20 16:05	1,6020B	AM
Chromium, Total	ND	mg/l	0.00100	0.00017	1	10/14/20 05:44	10/14/20 16:05	1,6020B	AM
Cobalt, Total	ND	mg/l	0.00050	0.00016	1	10/14/20 05:44	10/14/20 16:05	1,6020B	AM
Copper, Total	ND	mg/l	0.00100	0.00038	1	10/14/20 05:44	10/14/20 16:05	1,6020B	AM
Iron, Total	ND	mg/l	0.0500	0.0191	1	10/14/20 05:44	10/14/20 16:05	1,6020B	AM
Lead, Total	ND	mg/l	0.00100	0.00034	1	10/14/20 05:44	10/14/20 16:05	1,6020B	AM
Magnesium, Total	ND	mg/l	0.0700	0.0242	1	10/14/20 05:44	10/14/20 16:05	1,6020B	AM
Manganese, Total	ND	mg/l	0.00100	0.00044	1	10/14/20 05:44	10/14/20 16:05	1,6020B	AM
Nickel, Total	ND	mg/l	0.00200	0.00055	1	10/14/20 05:44	10/14/20 16:05	1,6020B	AM
Potassium, Total	ND	mg/l	0.100	0.0309	1	10/14/20 05:44	10/14/20 16:05	1,6020B	AM
Selenium, Total	ND	mg/l	0.00500	0.00173	1	10/14/20 05:44	10/14/20 16:05	1,6020B	AM
Silver, Total	ND	mg/l	0.00040	0.00016	1	10/14/20 05:44	10/14/20 16:05	1,6020B	AM
Sodium, Total	ND	mg/l	0.100	0.0293	1	10/14/20 05:44	10/14/20 16:05	1,6020B	AM
Thallium, Total	ND	mg/l	0.00050	0.00014	1	10/14/20 05:44	10/14/20 16:05	1,6020B	AM
Vanadium, Total	ND	mg/l	0.00500	0.00157	1	10/14/20 05:44	10/14/20 16:05	1,6020B	AM
Zinc, Total	ND	mg/l	0.01000	0.00341	1	10/14/20 05:44	10/14/20 16:05	1,6020B	AM

### Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1421592-1									
Mercury, Total	ND	mg/l	0.00020	0.00009	1	10/14/20 07:33	10/15/20 09:01	1,7470A	EW



**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

## Method Blank Analysis Batch Quality Control

### Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1421695-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	10/14/20 10:42	10/14/20 18:07	1,6020B	AM
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	10/14/20 10:42	10/14/20 18:07	1,6020B	AM
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	10/14/20 10:42	10/14/20 18:07	1,6020B	AM
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	10/14/20 10:42	10/14/20 18:07	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	10/14/20 10:42	10/14/20 18:07	1,6020B	AM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	10/14/20 10:42	10/14/20 18:07	1,6020B	AM
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	10/14/20 10:42	10/14/20 18:07	1,6020B	AM
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	10/14/20 10:42	10/14/20 18:07	1,6020B	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	10/14/20 10:42	10/14/20 18:07	1,6020B	AM
Copper, Dissolved	0.00051	J	mg/l	0.00100	0.00038	1	10/14/20 10:42	10/14/20 18:07	1,6020B	AM
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	10/14/20 10:42	10/14/20 18:07	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	10/14/20 10:42	10/14/20 18:07	1,6020B	AM
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	10/14/20 10:42	10/14/20 18:07	1,6020B	AM
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	10/14/20 10:42	10/14/20 18:07	1,6020B	AM
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	10/14/20 10:42	10/14/20 18:07	1,6020B	AM
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	10/14/20 10:42	10/14/20 18:07	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	10/14/20 10:42	10/14/20 18:07	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	10/14/20 10:42	10/14/20 18:07	1,6020B	AM
Sodium, Dissolved	ND		mg/l	0.100	0.0293	1	10/14/20 10:42	10/14/20 18:07	1,6020B	AM
Thallium, Dissolved	0.00015	J	mg/l	0.00050	0.00014	1	10/14/20 10:42	10/14/20 18:07	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	10/14/20 10:42	10/14/20 18:07	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	10/14/20 10:42	10/14/20 18:07	1,6020B	AM

### Prep Information

Digestion Method: EPA 3005A



Project Name: WALLACE CAMPUS

Lab Number: L2043642

Project Number: 20-0213.20

Report Date: 10/19/20

## Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1421697-1									
Mercury, Dissolved	ND	mg/l	0.00020	0.00009	1	10/14/20 10:47	10/15/20 07:51	1,7470A	EW

### Prep Information

Digestion Method: EPA 7470A

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: WALLACE CAMPUS

Lab Number: L2043642

Project Number: 20-0213.20

Report Date: 10/19/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1421590-2								
Aluminum, Total	99		-		80-120	-		
Antimony, Total	100		-		80-120	-		
Arsenic, Total	106		-		80-120	-		
Barium, Total	106		-		80-120	-		
Beryllium, Total	107		-		80-120	-		
Cadmium, Total	106		-		80-120	-		
Calcium, Total	93		-		80-120	-		
Chromium, Total	101		-		80-120	-		
Cobalt, Total	99		-		80-120	-		
Copper, Total	98		-		80-120	-		
Iron, Total	101		-		80-120	-		
Lead, Total	107		-		80-120	-		
Magnesium, Total	102		-		80-120	-		
Manganese, Total	101		-		80-120	-		
Nickel, Total	95		-		80-120	-		
Potassium, Total	105		-		80-120	-		
Selenium, Total	113		-		80-120	-		
Silver, Total	104		-		80-120	-		
Sodium, Total	101		-		80-120	-		
Thallium, Total	99		-		80-120	-		
Vanadium, Total	101		-		80-120	-		

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** WALLACE CAMPUS

**Project Number:** 20-0213.20

**Lab Number:** L2043642

**Report Date:** 10/19/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1421590-2					
Zinc, Total	106	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1421592-2					
Mercury, Total	116	-	80-120	-	

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: WALLACE CAMPUS

Lab Number: L2043642

Project Number: 20-0213.20

Report Date: 10/19/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1421695-2					
Aluminum, Dissolved	102	-	80-120	-	
Antimony, Dissolved	93	-	80-120	-	
Arsenic, Dissolved	109	-	80-120	-	
Barium, Dissolved	107	-	80-120	-	
Beryllium, Dissolved	113	-	80-120	-	
Cadmium, Dissolved	110	-	80-120	-	
Calcium, Dissolved	97	-	80-120	-	
Chromium, Dissolved	105	-	80-120	-	
Cobalt, Dissolved	101	-	80-120	-	
Copper, Dissolved	100	-	80-120	-	
Iron, Dissolved	99	-	80-120	-	
Lead, Dissolved	109	-	80-120	-	
Magnesium, Dissolved	103	-	80-120	-	
Manganese, Dissolved	103	-	80-120	-	
Nickel, Dissolved	98	-	80-120	-	
Potassium, Dissolved	108	-	80-120	-	
Selenium, Dissolved	113	-	80-120	-	
Silver, Dissolved	105	-	80-120	-	
Sodium, Dissolved	103	-	80-120	-	
Thallium, Dissolved	100	-	80-120	-	
Vanadium, Dissolved	104	-	80-120	-	



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** WALLACE CAMPUS

**Project Number:** 20-0213.20

**Lab Number:** L2043642

**Report Date:** 10/19/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1421695-2					
Zinc, Dissolved	110	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1421697-2					
Mercury, Dissolved	110	-	80-120	-	

### Matrix Spike Analysis Batch Quality Control

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04    QC Batch ID: WG1421590-3    QC Sample: L2043666-01    Client ID: MS Sample												
Aluminum, Total	0.120	2	2.09	98		-	-		75-125	-		20
Antimony, Total	ND	0.5	0.5063	101		-	-		75-125	-		20
Arsenic, Total	0.00023J	0.12	0.1272	106		-	-		75-125	-		20
Barium, Total	0.1629	2	2.288	106		-	-		75-125	-		20
Beryllium, Total	ND	0.05	0.05410	108		-	-		75-125	-		20
Cadmium, Total	ND	0.051	0.05441	107		-	-		75-125	-		20
Calcium, Total	97.8	10	106	82		-	-		75-125	-		20
Chromium, Total	0.00060J	0.2	0.2024	101		-	-		75-125	-		20
Cobalt, Total	ND	0.5	0.4961	99		-	-		75-125	-		20
Copper, Total	0.00044J	0.25	0.2452	98		-	-		75-125	-		20
Iron, Total	0.210	1	1.27	106		-	-		75-125	-		20
Lead, Total	ND	0.51	0.5546	109		-	-		75-125	-		20
Magnesium, Total	19.6	10	29.4	98		-	-		75-125	-		20
Manganese, Total	0.00588	0.5	0.5153	102		-	-		75-125	-		20
Nickel, Total	ND	0.5	0.4828	96		-	-		75-125	-		20
Potassium, Total	1.21	10	11.9	107		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.138	115		-	-		75-125	-		20
Silver, Total	ND	0.05	0.05126	102		-	-		75-125	-		20
Sodium, Total	52.0	10	57.1	51	Q	-	-		75-125	-		20
Thallium, Total	0.00014J	0.12	0.1206	100		-	-		75-125	-		20
Vanadium, Total	ND	0.5	0.5205	104		-	-		75-125	-		20

**Matrix Spike Analysis**  
Batch Quality Control

**Project Name:** WALLACE CAMPUS

**Lab Number:** L2043642

**Project Number:** 20-0213.20

**Report Date:** 10/19/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04    QC Batch ID: WG1421590-3    QC Sample: L2043666-01    Client ID: MS Sample									
Zinc, Total	ND	0.5	0.5236	105	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-04    QC Batch ID: WG1421592-3    QC Sample: L2043666-02    Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00515	103	-	-	75-125	-	20

### Matrix Spike Analysis Batch Quality Control

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1421695-3 QC Sample: L2043642-01 Client ID: MW-01 20201012									
Aluminum, Dissolved	0.0112	2	2.00	99	-	-	75-125	-	20
Antimony, Dissolved	0.00089J	0.5	0.5203	104	-	-	75-125	-	20
Arsenic, Dissolved	0.00046J	0.12	0.1294	108	-	-	75-125	-	20
Barium, Dissolved	0.04277	2	2.170	106	-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.05727	114	-	-	75-125	-	20
Cadmium, Dissolved	ND	0.051	0.05478	107	-	-	75-125	-	20
Calcium, Dissolved	42.0	10	51.3	93	-	-	75-125	-	20
Chromium, Dissolved	0.00033J	0.2	0.2057	103	-	-	75-125	-	20
Cobalt, Dissolved	ND	0.5	0.4879	98	-	-	75-125	-	20
Copper, Dissolved	0.00081J	0.25	0.2419	97	-	-	75-125	-	20
Iron, Dissolved	ND	1	0.975	98	-	-	75-125	-	20
Lead, Dissolved	ND	0.51	0.5440	107	-	-	75-125	-	20
Magnesium, Dissolved	10.0	10	19.9	99	-	-	75-125	-	20
Manganese, Dissolved	0.03107	0.5	0.5442	103	-	-	75-125	-	20
Nickel, Dissolved	ND	0.5	0.4783	96	-	-	75-125	-	20
Potassium, Dissolved	5.56	10	16.0	104	-	-	75-125	-	20
Selenium, Dissolved	0.00188J	0.12	0.138	115	-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.05096	102	-	-	75-125	-	20
Sodium, Dissolved	80.4	10	82.1	17	Q	-	75-125	-	20
Thallium, Dissolved	0.00020J	0.12	0.1187	99	-	-	75-125	-	20
Vanadium, Dissolved	0.00172J	0.5	0.5200	104	-	-	75-125	-	20

### Matrix Spike Analysis Batch Quality Control

**Project Name:** WALLACE CAMPUS

**Lab Number:** L2043642

**Project Number:** 20-0213.20

**Report Date:** 10/19/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1421695-3 QC Sample: L2043642-01 Client ID: MW-01 20201012									
Zinc, Dissolved	ND	0.5	0.5380	108	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1421697-3 QC Sample: L2043642-01 Client ID: MW-01 20201012									
Mercury, Dissolved	ND	0.005	0.00544	109	-	-	75-125	-	20

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: WALLACE CAMPUS

Project Number: 20-0213.20

Lab Number: L2043642

Report Date: 10/19/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1421590-4 QC Sample: L2043666-01 Client ID: DUP Sample						
Aluminum, Total	0.120	0.123	mg/l	2		20
Antimony, Total	ND	0.00059J	mg/l	NC		20
Arsenic, Total	0.00023J	0.00029J	mg/l	NC		20
Barium, Total	0.1629	0.1667	mg/l	2		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Calcium, Total	97.8	99.8	mg/l	2		20
Chromium, Total	0.00060J	0.00050J	mg/l	NC		20
Cobalt, Total	ND	ND	mg/l	NC		20
Copper, Total	0.00044J	0.00043J	mg/l	NC		20
Iron, Total	0.210	0.231	mg/l	10		20
Lead, Total	ND	ND	mg/l	NC		20
Magnesium, Total	19.6	20.2	mg/l	3		20
Manganese, Total	0.00588	0.00619	mg/l	5		20
Nickel, Total	ND	ND	mg/l	NC		20
Potassium, Total	1.21	1.21	mg/l	0		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Sodium, Total	52.0	53.2	mg/l	2		20

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: WALLACE CAMPUS

Project Number: 20-0213.20

Lab Number: L2043642

Report Date: 10/19/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1421590-4 QC Sample: L2043666-01 Client ID: DUP Sample					
Thallium, Total	0.00014J	0.00041J	mg/l	NC	20
Vanadium, Total	ND	ND	mg/l	NC	20
Zinc, Total	ND	ND	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1421592-4 QC Sample: L2043666-02 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20



## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: WALLACE CAMPUS

Project Number: 20-0213.20

Lab Number: L2043642

Report Date: 10/19/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1421695-4 QC Sample: L2043642-01 Client ID: MW-01 20201012					
Aluminum, Dissolved	0.0112	0.0118	mg/l	5	20
Antimony, Dissolved	0.00089J	0.00136J	mg/l	NC	20
Arsenic, Dissolved	0.00046J	0.00052	mg/l	NC	20
Barium, Dissolved	0.04277	0.04247	mg/l	1	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Calcium, Dissolved	42.0	41.4	mg/l	1	20
Chromium, Dissolved	0.00033J	0.00036J	mg/l	NC	20
Cobalt, Dissolved	ND	ND	mg/l	NC	20
Copper, Dissolved	0.00081J	0.00084J	mg/l	NC	20
Iron, Dissolved	ND	ND	mg/l	NC	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Magnesium, Dissolved	10.0	9.86	mg/l	1	20
Manganese, Dissolved	0.03107	0.03191	mg/l	3	20
Nickel, Dissolved	ND	ND	mg/l	NC	20
Potassium, Dissolved	5.56	5.49	mg/l	1	20
Selenium, Dissolved	0.00188J	0.00189J	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Sodium, Dissolved	80.4	79.0	mg/l	2	20

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: WALLACE CAMPUS

Project Number: 20-0213.20

Lab Number: L2043642

Report Date: 10/19/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1421695-4 QC Sample: L2043642-01 Client ID: MW-01 20201012					
Thallium, Dissolved	0.00020J	0.00050	mg/l	NC	20
Vanadium, Dissolved	0.00172J	ND	mg/l	NC	20
Zinc, Dissolved	ND	ND	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1421697-4 QC Sample: L2043642-01 Client ID: MW-01 20201012					
Mercury, Dissolved	ND	ND	mg/l	NC	20

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

Serial\_No:10192012:58  
**Lab Number:** L2043642  
**Report Date:** 10/19/20

**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Cooler Information**

<b>Cooler</b>	<b>Custody Seal</b>
A	Absent
B	Absent

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2043642-01A	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2043642-01B	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2043642-01C	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2043642-01D	Amber 120ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8082-LVI(7)
L2043642-01E	Amber 120ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8082-LVI(7)
L2043642-01F	Amber 120ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8081(7)
L2043642-01G	Amber 120ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8081(7)
L2043642-01H	Amber 250ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2043642-01I	Amber 250ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2043642-01J	Plastic 250ml unpreserved	A	7	7	2.3	Y	Absent		-
L2043642-01K	Plastic 250ml HNO3 preserved	A	<2	<2	2.3	Y	Absent		TL-6020T(180),FE-6020T(180),SE-6020T(180),BA-6020T(180),K-6020T(180),CA-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),MG-6020T(180),AG-6020T(180),CD-6020T(180),AL-6020T(180),HG-T(28),CO-6020T(180)
L2043642-01X	Plastic 120ml HNO3 preserved Filtrates	A	NA		2.3	Y	Absent		SE-6020S(180),V-6020S(180),CU-6020S(180),K-6020S(180),MN-6020S(180),BE-6020S(180),ZN-6020S(180),CO-6020S(180),MG-6020S(180),CA-6020S(180),FE-6020S(180),CR-6020S(180),NA-6020S(180),BA-6020S(180),TL-6020S(180),NI-6020S(180),PB-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),HG-S(28),CD-6020S(180),AL-6020S(180)
L2043642-02A	Vial HCl preserved	B	NA		4.9	Y	Absent		NYTCL-8260(14)

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Serial\_No:**10192012:58  
**Lab Number:** L2043642  
**Report Date:** 10/19/20

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2043642-02B	Vial HCl preserved	B	NA		4.9	Y	Absent		NYTCL-8260(14)
L2043642-02C	Vial HCl preserved	B	NA		4.9	Y	Absent		NYTCL-8260(14)
L2043642-02D	Amber 120ml unpreserved	B	7	7	4.9	Y	Absent		NYTCL-8082-LVI(7)
L2043642-02E	Amber 120ml unpreserved	B	7	7	4.9	Y	Absent		NYTCL-8082-LVI(7)
L2043642-02F	Amber 120ml unpreserved	B	7	7	4.9	Y	Absent		NYTCL-8081(7)
L2043642-02G	Amber 120ml unpreserved	B	7	7	4.9	Y	Absent		NYTCL-8081(7)
L2043642-02H	Amber 250ml unpreserved	B	7	7	4.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2043642-02I	Amber 250ml unpreserved	B	7	7	4.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2043642-02J	Plastic 250ml unpreserved	B	7	7	4.9	Y	Absent		-
L2043642-02K	Plastic 250ml HNO3 preserved	B	<2	<2	4.9	Y	Absent		BA-6020T(180),SE-6020T(180),TL-6020T(180),FE-6020T(180),CR-6020T(180),CA-6020T(180),K-6020T(180),NI-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),AL-6020T(180),HG-T(28),CD-6020T(180),MG-6020T(180),AG-6020T(180),CO-6020T(180)
L2043642-02X	Plastic 120ml HNO3 preserved Filtrates	B	NA		4.9	Y	Absent		CU-6020S(180),V-6020S(180),K-6020S(180),SE-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),FE-6020S(180),CR-6020S(180),BA-6020S(180),TL-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2043642-03A	Vial HCl preserved	B	NA		4.9	Y	Absent		NYTCL-8260(14)
L2043642-03B	Vial HCl preserved	B	NA		4.9	Y	Absent		NYTCL-8260(14)
L2043642-03C	Vial HCl preserved	B	NA		4.9	Y	Absent		NYTCL-8260(14)
L2043642-03D	Amber 120ml unpreserved	B	7	7	4.9	Y	Absent		NYTCL-8082-LVI(7)
L2043642-03E	Amber 120ml unpreserved	B	7	7	4.9	Y	Absent		NYTCL-8082-LVI(7)
L2043642-03F	Amber 120ml unpreserved	B	7	7	4.9	Y	Absent		NYTCL-8081(7)
L2043642-03G	Amber 120ml unpreserved	B	7	7	4.9	Y	Absent		NYTCL-8081(7)
L2043642-03H	Amber 250ml unpreserved	B	7	7	4.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2043642-03I	Amber 250ml unpreserved	B	7	7	4.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Serial\_No:**10192012:58  
**Lab Number:** L2043642  
**Report Date:** 10/19/20

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2043642-03J	Plastic 250ml unpreserved	B	7	7	4.9	Y	Absent		-
L2043642-03K	Plastic 250ml HNO3 preserved	B	<2	<2	4.9	Y	Absent		BA-6020T(180),FE-6020T(180),TL-6020T(180),SE-6020T(180),CA-6020T(180),NI-6020T(180),CR-6020T(180),K-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),HG-T(28),AL-6020T(180),CD-6020T(180),AG-6020T(180),MG-6020T(180),CO-6020T(180)
L2043642-03X	Plastic 120ml HNO3 preserved Filtrates	A	NA		2.3	Y	Absent		CU-6020S(180),SE-6020S(180),V-6020S(180),K-6020S(180),MN-6020S(180),MG-6020S(180),ZN-6020S(180),BE-6020S(180),CO-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),PB-6020S(180),BA-6020S(180),TL-6020S(180),NA-6020S(180),NI-6020S(180),AS-6020S(180),SB-6020S(180),AG-6020S(180),HG-S(28),AL-6020S(180),CD-6020S(180)
L2043642-04A	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2043642-04B	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2043642-04C	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2043642-04D	Amber 120ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8082-LVI(7)
L2043642-04E	Amber 120ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8082-LVI(7)
L2043642-04F	Amber 120ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8081(7)
L2043642-04G	Amber 120ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8081(7)
L2043642-04H	Amber 250ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2043642-04I	Amber 250ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2043642-04J	Plastic 250ml unpreserved	A	7	7	2.3	Y	Absent		-
L2043642-04K	Plastic 250ml HNO3 preserved	A	<2	<2	2.3	Y	Absent		FE-6020T(180),SE-6020T(180),TL-6020T(180),BA-6020T(180),CR-6020T(180),CA-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),HG-T(28),MG-6020T(180),AL-6020T(180),AG-6020T(180),CD-6020T(180),CO-6020T(180)

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Serial\_No:**10192012:58  
**Lab Number:** L2043642  
**Report Date:** 10/19/20

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2043642-04X	Plastic 120ml HNO3 preserved Filtrates	A	NA		2.3	Y	Absent		CU-6020S(180),K-6020S(180),V-6020S(180),SE-6020S(180),MN-6020S(180),MG-6020S(180),CO-6020S(180),BE-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),PB-6020S(180),BA-6020S(180),NI-6020S(180),TL-6020S(180),NA-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),HG-S(28),AL-6020S(180),CD-6020S(180)
L2043642-05A	Vial HCl preserved	B	NA		4.9	Y	Absent		NYTCL-8260(14)
L2043642-05B	Vial HCl preserved	B	NA		4.9	Y	Absent		NYTCL-8260(14)

\*Values in parentheses indicate holding time in days



**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

## GLOSSARY

### Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)  Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers





**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

#### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

#### Terms

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

**Difference:** With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

**Final pH:** As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

**Frozen Date/Time:** With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

**Initial pH:** As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

**PAH Total:** With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

#### Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: DU Report with 'J' Qualifiers



**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

**Data Qualifiers**

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213.20

**Lab Number:** L2043642  
**Report Date:** 10/19/20

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene

**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### Mansfield Facility

**SM 2540D:** TSS

**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**EPA TO-12** Non-methane organics

**EPA 3C** Fixed gases

**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

### Westborough Facility:

#### *Drinking Water*

**EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**

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

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

#### *Non-Potable Water*

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

**EPA 624.1:** Volatile Halocarbons & Aromatics,

**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

### Mansfield Facility:

#### *Drinking Water*

**EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg. **EPA 522.**

#### *Non-Potable Water*

**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

**EPA 245.1** Hg.

**SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

		<b>NEW YORK CHAIN OF CUSTODY</b> Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 10/12/20		ALPHA Job # 12043642						
				Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3268								
<b>Client Information</b> Client: GBS Address: 22 IBM rd Ste 101 Poughkeepsie NY 12601 Phone: (845) 452 1658 Fax: Email: erick.salazar@gbps.com		<b>Project Information</b> Project Name: Walter Campus Project Location: Project # 20-0213.20 (Use Project name as Project #) <input type="checkbox"/> Project Manager: Erick Salazar ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		<b>Deliverables</b> <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		<b>Billing Information</b> <input checked="" type="checkbox"/> Same as Client Info PO# 20-0213 Attn: Brenda								
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Please specify Metals or TAL.		<b>Regulatory Requirement</b> <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input checked="" type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		<b>Disposal Site Information</b> Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:										
<b>ALPHA Lab ID (Lab Use Only)</b>		<b>Sample ID</b>		<b>Collection</b> Date Time		<b>Sample Matrix</b>		<b>Sampler's Initials</b>		<b>ANALYSIS</b> VOC SVOC TAL Metals (HAs) CAL Metals (HAs) Pest / PCBs		<b>Sample Filtration</b> <input type="checkbox"/> Done <input checked="" type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)		T U B O L E
												<b>Sample Specific Comments</b>		
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type V A S P A Preservative B A C A A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)						
Form No: 01-25 HC (rev. 30-Sept-2013)		Relinquished By: [Signature] Date/Time: 10/12/20 1742		Received By: [Signature] Date/Time: 10/12/20 1408		Relinquished By: [Signature] Date/Time: 10/12/20 2200		Received By: [Signature] Date/Time: 10/12/20 2200						



## ANALYTICAL REPORT

Lab Number:	L2038039
Client:	Gallagher Bassett Technical Services 22 IBM Road Suite 101 Poughkeepsie, NY 12603
ATTN:	Erick Salazar
Phone:	(845) 867-4714
Project Name:	WALLACE CAMPUS
Project Number:	20-0213
Report Date:	09/18/20

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

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

---

320 Forbes Boulevard, Mansfield, MA 02048-1806  
508-822-9300 (Fax) 508-822-3288 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213

**Lab Number:** L2038039  
**Report Date:** 09/18/20

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L2038039-01	SV-01	SOIL_VAPOR	POUGHKEEPSIE, NY	09/11/20 11:57	09/11/20
L2038039-02	SV-02	SOIL_VAPOR	POUGHKEEPSIE, NY	09/11/20 12:04	09/11/20
L2038039-03	SV-03	SOIL_VAPOR	POUGHKEEPSIE, NY	09/11/20 12:12	09/11/20
L2038039-04	SV-04	SOIL_VAPOR	POUGHKEEPSIE, NY	09/11/20 11:04	09/11/20
L2038039-05	SV-05	SOIL_VAPOR	POUGHKEEPSIE, NY	09/11/20 11:07	09/11/20
L2038039-06	SV-06	SOIL_VAPOR	POUGHKEEPSIE, NY	09/11/20 11:37	09/11/20



**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213

**Lab Number:** L2038039  
**Report Date:** 09/18/20

### Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

Please contact Project Management at 800-624-9220 with any questions.

---

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213

**Lab Number:** L2038039  
**Report Date:** 09/18/20

### Case Narrative (continued)

#### Volatile Organics in Air

Canisters were released from the laboratory on September 10, 2020. The canister certification results are provided as an addendum.

The WG1411312-3 LCS recovery for propylene (139%), 3-chloropropene (132%), 1,2-dichloroethane (134%) and benzyl chloride (137%) is above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of this analyte.

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

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 09/18/20

**AIR**

**Project Name:** WALLACE CAMPUS**Lab Number:** L2038039**Project Number:** 20-0213**Report Date:** 09/18/20**SAMPLE RESULTS**

Lab ID: L2038039-01  
 Client ID: SV-01  
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 09/11/20 11:57  
 Date Received: 09/11/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 09/17/20 21:13  
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
Dichlorodifluoromethane	0.594	0.200	--	2.94	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	2.65	1.00	--	6.29	2.38	--		1
Trichlorofluoromethane	0.362	0.200	--	2.03	1.12	--		1
Isopropanol	0.992	0.500	--	2.44	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213

**Lab Number:** L2038039  
**Report Date:** 09/18/20

### SAMPLE RESULTS

Lab ID: L2038039-01  
 Client ID: SV-01  
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 09/11/20 11:57  
 Date Received: 09/11/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	3.53	0.200	--	17.2	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	0.234	0.200	--	1.28	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	0.255	0.200	--	1.37	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.242	0.200	--	0.912	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.343	0.200	--	2.33	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1



**Project Name:** WALLACE CAMPUS**Lab Number:** L2038039**Project Number:** 20-0213**Report Date:** 09/18/20**SAMPLE RESULTS**

Lab ID: L2038039-01  
 Client ID: SV-01  
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 09/11/20 11:57  
 Date Received: 09/11/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	99		60-140



**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213

**Lab Number:** L2038039  
**Report Date:** 09/18/20

### SAMPLE RESULTS

Lab ID: L2038039-02  
 Client ID: SV-02  
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 09/11/20 12:04  
 Date Received: 09/11/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 09/17/20 21:52  
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.820	0.200	--	4.05	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	10.3	5.00	--	19.4	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	26.8	1.00	--	63.7	2.38	--		1
Trichlorofluoromethane	0.341	0.200	--	1.92	1.12	--		1
Isopropanol	4.58	0.500	--	11.3	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	0.730	0.500	--	2.21	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	2.48	0.500	--	7.31	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1





**Project Name:** WALLACE CAMPUS**Lab Number:** L2038039**Project Number:** 20-0213**Report Date:** 09/18/20**SAMPLE RESULTS**

Lab ID: L2038039-02  
 Client ID: SV-02  
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 09/11/20 12:04  
 Date Received: 09/11/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	2.62	0.200	--	12.8	0.977	--		1
Tetrahydrofuran	0.700	0.500	--	2.06	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	0.468	0.200	--	2.55	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.577	0.200	--	2.17	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.291	0.200	--	1.97	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1



**Project Name:** WALLACE CAMPUS**Lab Number:** L2038039**Project Number:** 20-0213**Report Date:** 09/18/20**SAMPLE RESULTS**

Lab ID: L2038039-02  
 Client ID: SV-02  
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 09/11/20 12:04  
 Date Received: 09/11/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
p/m-Xylene	0.553	0.400	--	2.40	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.201	0.200	--	0.988	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	97		60-140



**Project Name:** WALLACE CAMPUS**Lab Number:** L2038039**Project Number:** 20-0213**Report Date:** 09/18/20**SAMPLE RESULTS**

Lab ID: L2038039-03  
 Client ID: SV-03  
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 09/11/20 12:12  
 Date Received: 09/11/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 09/17/20 23:12  
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
Dichlorodifluoromethane	1.43	0.200	--	7.07	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	0.235	0.200	--	0.520	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	6.29	5.00	--	11.9	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	17.0	1.00	--	40.4	2.38	--		1
Trichlorofluoromethane	0.514	0.200	--	2.89	1.12	--		1
Isopropanol	2.11	0.500	--	5.19	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	0.523	0.500	--	1.59	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.880	0.200	--	2.74	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	2.51	0.500	--	7.40	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



**Project Name:** WALLACE CAMPUS**Lab Number:** L2038039**Project Number:** 20-0213**Report Date:** 09/18/20**SAMPLE RESULTS**

Lab ID: L2038039-03  
 Client ID: SV-03  
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 09/11/20 12:12  
 Date Received: 09/11/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.536	0.200	--	2.62	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	3.39	0.200	--	11.9	0.705	--		1
1,1,1-Trichloroethane	0.482	0.200	--	2.63	1.09	--		1
Benzene	1.10	0.200	--	3.51	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	2.18	0.200	--	8.93	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.942	0.200	--	3.55	0.754	--		1
2-Hexanone	0.238	0.200	--	0.975	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.310	0.200	--	2.10	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.270	0.200	--	1.17	0.869	--		1



**Project Name:** WALLACE CAMPUS**Lab Number:** L2038039**Project Number:** 20-0213**Report Date:** 09/18/20**SAMPLE RESULTS**

Lab ID: L2038039-03  
 Client ID: SV-03  
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 09/11/20 12:12  
 Date Received: 09/11/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
p/m-Xylene	0.717	0.400	--	3.11	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.224	0.200	--	0.973	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.280	0.200	--	1.38	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	101		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	96		60-140



**Project Name:** WALLACE CAMPUS**Lab Number:** L2038039**Project Number:** 20-0213**Report Date:** 09/18/20**SAMPLE RESULTS**

Lab ID: L2038039-04  
 Client ID: SV-04  
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 09/11/20 11:04  
 Date Received: 09/11/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 09/17/20 23:51  
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
Dichlorodifluoromethane	0.779	0.200	--	3.85	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	11.4	5.00	--	21.5	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	15.6	1.00	--	37.1	2.38	--		1
Trichlorofluoromethane	0.311	0.200	--	1.75	1.12	--		1
Isopropanol	2.13	0.500	--	5.24	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.367	0.200	--	1.14	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.60	0.500	--	4.72	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



**Project Name:** WALLACE CAMPUS**Lab Number:** L2038039**Project Number:** 20-0213**Report Date:** 09/18/20**SAMPLE RESULTS**

Lab ID: L2038039-04  
 Client ID: SV-04  
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 09/11/20 11:04  
 Date Received: 09/11/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.332	0.200	--	1.62	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	0.686	0.500	--	2.81	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.548	0.200	--	2.07	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.431	0.200	--	2.92	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.634	0.200	--	2.75	0.869	--		1





**Project Name:** WALLACE CAMPUS**Lab Number:** L2038039**Project Number:** 20-0213**Report Date:** 09/18/20**SAMPLE RESULTS**

Lab ID: L2038039-04  
 Client ID: SV-04  
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 09/11/20 11:04  
 Date Received: 09/11/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
p/m-Xylene	0.743	0.400	--	3.23	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.287	0.200	--	1.22	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.253	0.200	--	1.10	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.431	0.200	--	2.12	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	101		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	97		60-140



**Project Name:** WALLACE CAMPUS**Lab Number:** L2038039**Project Number:** 20-0213**Report Date:** 09/18/20**SAMPLE RESULTS**

Lab ID: L2038039-05  
 Client ID: SV-05  
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 09/11/20 11:07  
 Date Received: 09/11/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 09/18/20 00:30  
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
Dichlorodifluoromethane	0.688	0.200	--	3.40	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	6.12	5.00	--	11.5	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	29.6	1.00	--	70.3	2.38	--		1
Trichlorofluoromethane	0.316	0.200	--	1.78	1.12	--		1
Isopropanol	1.56	0.500	--	3.83	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	0.525	0.500	--	1.82	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.623	0.500	--	1.84	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



**Project Name:** WALLACE CAMPUS**Lab Number:** L2038039**Project Number:** 20-0213**Report Date:** 09/18/20**SAMPLE RESULTS**

Lab ID: L2038039-05  
 Client ID: SV-05  
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 09/11/20 11:07  
 Date Received: 09/11/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.654	0.500	--	1.93	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	3.73	0.200	--	14.1	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	1.79	0.200	--	12.1	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	3.26	0.200	--	14.2	0.869	--		1



**Project Name:** WALLACE CAMPUS**Lab Number:** L2038039**Project Number:** 20-0213**Report Date:** 09/18/20**SAMPLE RESULTS**

Lab ID: L2038039-05  
 Client ID: SV-05  
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 09/11/20 11:07  
 Date Received: 09/11/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
p/m-Xylene	11.3	0.400	--	49.1	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	39.0	0.200	--	166	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	3.42	0.200	--	14.9	0.869	--		1
4-Ethyltoluene	0.808	0.200	--	3.97	0.983	--		1
1,3,5-Trimethylbenzene	1.37	0.200	--	6.74	0.983	--		1
1,2,4-Trimethylbenzene	2.97	0.200	--	14.6	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	97		60-140



**Project Name:** WALLACE CAMPUS**Lab Number:** L2038039**Project Number:** 20-0213**Report Date:** 09/18/20**SAMPLE RESULTS**

Lab ID: L2038039-06  
 Client ID: SV-06  
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 09/11/20 11:37  
 Date Received: 09/11/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 09/18/20 01:10  
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
Dichlorodifluoromethane	2.00	0.200	--	9.89	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	19.0	5.00	--	35.8	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	6.00	1.00	--	14.3	2.38	--		1
Trichlorofluoromethane	0.578	0.200	--	3.25	1.12	--		1
Isopropanol	3.40	0.500	--	8.36	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	1.53	0.500	--	4.64	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.563	0.200	--	1.75	0.623	--		1
Freon-113	0.500	0.200	--	3.83	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	2.18	0.500	--	6.43	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



**Project Name:** WALLACE CAMPUS**Lab Number:** L2038039**Project Number:** 20-0213**Report Date:** 09/18/20**SAMPLE RESULTS**

Lab ID: L2038039-06  
 Client ID: SV-06  
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 09/11/20 11:37  
 Date Received: 09/11/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	2.80	0.200	--	13.7	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.240	0.200	--	0.826	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	0.275	0.200	--	1.84	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	1.03	0.500	--	4.22	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.537	0.200	--	2.02	0.754	--		1
2-Hexanone	0.228	0.200	--	0.934	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.907	0.200	--	6.15	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1



**Project Name:** WALLACE CAMPUS**Lab Number:** L2038039**Project Number:** 20-0213**Report Date:** 09/18/20**SAMPLE RESULTS**

Lab ID: L2038039-06  
 Client ID: SV-06  
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 09/11/20 11:37  
 Date Received: 09/11/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
p/m-Xylene	0.499	0.400	--	2.17	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.278	0.200	--	1.18	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.226	0.200	--	1.11	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	97		60-140



Project Name: WALLACE CAMPUS

Lab Number: L2038039

Project Number: 20-0213

Report Date: 09/18/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 09/17/20 15:01

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-06 Batch: WG1411312-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1





Project Name: WALLACE CAMPUS

Lab Number: L2038039

Project Number: 20-0213

Report Date: 09/18/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 09/17/20 15:01

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-06 Batch: WG1411312-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1



Project Name: WALLACE CAMPUS

Lab Number: L2038039

Project Number: 20-0213

Report Date: 09/18/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 09/17/20 15:01

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-06 Batch: WG1411312-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: WALLACE CAMPUS

Lab Number: L2038039

Project Number: 20-0213

Report Date: 09/18/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG1411312-3								
Dichlorodifluoromethane	97		-		70-130	-		
Chloromethane	93		-		70-130	-		
Freon-114	96		-		70-130	-		
Vinyl chloride	94		-		70-130	-		
1,3-Butadiene	92		-		70-130	-		
Bromomethane	102		-		70-130	-		
Chloroethane	99		-		70-130	-		
Ethanol	75		-		40-160	-		
Vinyl bromide	106		-		70-130	-		
Acetone	92		-		40-160	-		
Trichlorofluoromethane	119		-		70-130	-		
Isopropanol	93		-		40-160	-		
1,1-Dichloroethene	122		-		70-130	-		
Tertiary butyl Alcohol	115		-		70-130	-		
Methylene chloride	98		-		70-130	-		
3-Chloropropene	132	Q	-		70-130	-		
Carbon disulfide	101		-		70-130	-		
Freon-113	123		-		70-130	-		
trans-1,2-Dichloroethene	117		-		70-130	-		
1,1-Dichloroethane	128		-		70-130	-		
Methyl tert butyl ether	123		-		70-130	-		
2-Butanone	123		-		70-130	-		
cis-1,2-Dichloroethene	124		-		70-130	-		

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: WALLACE CAMPUS

Lab Number: L2038039

Project Number: 20-0213

Report Date: 09/18/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG1411312-3								
Ethyl Acetate	119		-		70-130	-		
Chloroform	109		-		70-130	-		
Tetrahydrofuran	119		-		70-130	-		
1,2-Dichloroethane	134	Q	-		70-130	-		
n-Hexane	92		-		70-130	-		
1,1,1-Trichloroethane	127		-		70-130	-		
Benzene	91		-		70-130	-		
Carbon tetrachloride	122		-		70-130	-		
Cyclohexane	91		-		70-130	-		
1,2-Dichloropropane	114		-		70-130	-		
Bromodichloromethane	101		-		70-130	-		
1,4-Dioxane	102		-		70-130	-		
Trichloroethene	109		-		70-130	-		
2,2,4-Trimethylpentane	95		-		70-130	-		
Heptane	110		-		70-130	-		
cis-1,3-Dichloropropene	107		-		70-130	-		
4-Methyl-2-pentanone	113		-		70-130	-		
trans-1,3-Dichloropropene	97		-		70-130	-		
1,1,2-Trichloroethane	114		-		70-130	-		
Toluene	106		-		70-130	-		
2-Hexanone	108		-		70-130	-		
Dibromochloromethane	119		-		70-130	-		
1,2-Dibromoethane	98		-		70-130	-		

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: WALLACE CAMPUS

Project Number: 20-0213

Lab Number: L2038039

Report Date: 09/18/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG1411312-3								
Tetrachloroethene	102		-		70-130	-		
Chlorobenzene	97		-		70-130	-		
Ethylbenzene	112		-		70-130	-		
p/m-Xylene	114		-		70-130	-		
Bromoform	115		-		70-130	-		
Styrene	99		-		70-130	-		
1,1,2,2-Tetrachloroethane	101		-		70-130	-		
o-Xylene	117		-		70-130	-		
4-Ethyltoluene	128		-		70-130	-		
1,3,5-Trimethylbenzene	105		-		70-130	-		
1,2,4-Trimethylbenzene	110		-		70-130	-		
Benzyl chloride	137	Q	-		70-130	-		
1,3-Dichlorobenzene	113		-		70-130	-		
1,4-Dichlorobenzene	110		-		70-130	-		
1,2-Dichlorobenzene	111		-		70-130	-		
1,2,4-Trichlorobenzene	103		-		70-130	-		
Hexachlorobutadiene	116		-		70-130	-		

## Lab Duplicate Analysis

Batch Quality Control

Project Name: WALLACE CAMPUS

Project Number: 20-0213

Lab Number: L2038039

Report Date: 09/18/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1411312-5 QC Sample: L2038039-02 Client ID: SV-02						
Dichlorodifluoromethane	0.820	0.827	ppbV	1		25
Chloromethane	ND	ND	ppbV	NC		25
Freon-114	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	10.3	10.3	ppbV	0		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	26.8	26.8	ppbV	0		25
Trichlorofluoromethane	0.341	0.331	ppbV	3		25
Isopropanol	4.58	4.61	ppbV	1		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Tertiary butyl Alcohol	0.730	0.697	ppbV	5		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25

## Lab Duplicate Analysis

### Batch Quality Control

Project Name: WALLACE CAMPUS

Project Number: 20-0213

Lab Number: L2038039

Report Date: 09/18/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1411312-5 QC Sample: L2038039-02 Client ID: SV-02						
2-Butanone	2.48	2.46	ppbV	1		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Ethyl Acetate	ND	ND	ppbV	NC		25
Chloroform	2.62	2.62	ppbV	0		25
Tetrahydrofuran	0.700	0.705	ppbV	1		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	0.468	0.472	ppbV	1		25
Benzene	ND	ND	ppbV	NC		25
Carbon tetrachloride	ND	ND	ppbV	NC		25
Cyclohexane	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	ND	ND	ppbV	NC		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25

## Lab Duplicate Analysis

### Batch Quality Control

Project Name: WALLACE CAMPUS

Project Number: 20-0213

Lab Number: L2038039

Report Date: 09/18/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1411312-5 QC Sample: L2038039-02 Client ID: SV-02						
Toluene	0.577	0.612	ppbV	6		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	0.291	0.299	ppbV	3		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	ND	ND	ppbV	NC		25
p/m-Xylene	0.553	0.583	ppbV	5		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	ND	ND	ppbV	NC		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	0.201	0.205	ppbV	2		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25



Project Name: WALLACE CAMPUS

Serial\_No:09182016:13  
Lab Number: L2038039

Project Number: 20-0213

Report Date: 09/18/20

### Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2038039-01	SV-01	01542	Flow 3	09/10/20	329905		-	-	-	Pass	18.0	18.2	1
L2038039-01	SV-01	3102	2.7L Can	09/10/20	329905	L2036144-01	Pass	-29.5	-5.2	-	-	-	-
L2038039-02	SV-02	01831	Flow 3	09/10/20	329905		-	-	-	Pass	18.0	18.9	5
L2038039-02	SV-02	2277	2.7L Can	09/10/20	329905	L2036144-01	Pass	-29.7	-5.1	-	-	-	-
L2038039-03	SV-03	01797	Flow 3	09/10/20	329905		-	-	-	Pass	18.0	18.1	1
L2038039-03	SV-03	3100	2.7L Can	09/10/20	329905	L2036144-01	Pass	-29.3	-5.8	-	-	-	-
L2038039-04	SV-04	01829	Flow 3	09/10/20	329905		-	-	-	Pass	18.0	18.2	1
L2038039-04	SV-04	2009	2.7L Can	09/10/20	329905	L2036144-01	Pass	-29.5	-5.6	-	-	-	-
L2038039-05	SV-05	01785	Flow 3	09/10/20	329905		-	-	-	Pass	18.0	18.1	1
L2038039-05	SV-05	3194	2.7L Can	09/10/20	329905	L2036144-01	Pass	-29.5	-5.8	-	-	-	-
L2038039-06	SV-06	0215	Flow 3	09/10/20	329905		-	-	-	Pass	18.0	18.4	2
L2038039-06	SV-06	2219	2.7L Can	09/10/20	329905	L2036144-01	Pass	-29.5	-4.8	-	-	-	-



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2036144  
**Report Date:** 09/18/20

### Air Canister Certification Results

Lab ID: L2036144-01  
 Client ID: CAN 486 SHELF 21  
 Sample Location:

Date Collected: 09/01/20 16:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 09/03/20 21:06  
 Analyst: EW

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2036144  
**Report Date:** 09/18/20

### Air Canister Certification Results

Lab ID: L2036144-01  
 Client ID: CAN 486 SHELF 21  
 Sample Location:

Date Collected: 09/01/20 16:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2036144  
**Report Date:** 09/18/20

### Air Canister Certification Results

Lab ID: L2036144-01  
 Client ID: CAN 486 SHELF 21  
 Sample Location:

Date Collected: 09/01/20 16:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2036144  
**Report Date:** 09/18/20

### Air Canister Certification Results

Lab ID: L2036144-01  
 Client ID: CAN 486 SHELF 21  
 Sample Location:

Date Collected: 09/01/20 16:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2036144  
**Report Date:** 09/18/20

### Air Canister Certification Results

Lab ID: L2036144-01  
 Client ID: CAN 486 SHELF 21  
 Sample Location:

Date Collected: 09/01/20 16:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	135		60-140
chlorobenzene-d5	101		60-140



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2036144  
**Report Date:** 09/18/20

### Air Canister Certification Results

Lab ID: L2036144-01  
 Client ID: CAN 486 SHELF 21  
 Sample Location:

Date Collected: 09/01/20 16:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 09/03/20 21:06  
 Analyst: EW

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2036144  
**Report Date:** 09/18/20

### Air Canister Certification Results

Lab ID: L2036144-01  
 Client ID: CAN 486 SHELF 21  
 Sample Location:

Date Collected: 09/01/20 16:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1





**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2036144  
**Report Date:** 09/18/20

### Air Canister Certification Results

Lab ID: L2036144-01  
 Client ID: CAN 486 SHELF 21  
 Sample Location:

Date Collected: 09/01/20 16:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	88		60-140
bromochloromethane	135		60-140
chlorobenzene-d5	99		60-140



**Project Name:** WALLACE CAMPUS**Lab Number:** L2038039**Project Number:** 20-0213**Report Date:** 09/18/20**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information****Cooler**                      **Custody Seal**

NA                                      Absent

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2038039-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2038039-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2038039-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2038039-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2038039-05A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2038039-06A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213

**Lab Number:** L2038039  
**Report Date:** 09/18/20

## GLOSSARY

### Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)  Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

Report Format: Data Usability Report



**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213

**Lab Number:** L2038039  
**Report Date:** 09/18/20

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

**Difference:** With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

**Final pH:** As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

**Frozen Date/Time:** With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

**Initial pH:** As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

**PAH Total:** With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Report Format: Data Usability Report



**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213

**Lab Number:** L2038039  
**Report Date:** 09/18/20

**Data Qualifiers**

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

**Project Name:** WALLACE CAMPUS  
**Project Number:** 20-0213

**Lab Number:** L2038039  
**Report Date:** 09/18/20

## REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene

**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### Mansfield Facility

**SM 2540D:** TSS

**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**EPA TO-12** Non-methane organics

**EPA 3C** Fixed gases

**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

### Westborough Facility:

#### Drinking Water

**EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**

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

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

#### Non-Potable Water

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

**EPA 624.1:** Volatile Halocarbons & Aromatics,

**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

### Mansfield Facility:

#### Drinking Water

**EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg. **EPA 522.**

#### Non-Potable Water

**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

**EPA 245.1** Hg.

**SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.





# AIR ANALYSIS

PAGE 1 OF 1

320 Forbes Blvd, Mansfield, MA 02048  
 TEL: 508-822-9300 FAX: 508-822-3288

### Client Information

Client: **LBTS**  
 Address: **22 IBM Rd Suite 101**  
**Poughkeepsie NY 12603**  
 Phone: **845 867 4715**  
 Fax:  
 Email: **erick\_sulzgar@wedgroup.com**

### Project Information

Project Name: **Wallace Campus**  
 Project Location: **200213 Poughkeepsie, NY**  
 Project # **20-0213**  
 Project Manager: **Erick Sulzgar**  
 ALPHA Quote #:

### Turn-Around Time

Standard  RUSH (only confirmed if pre-approved)

Date Due: Time:

Date Rec'd in Lab: **9/12/20**

### Report Information - Data Deliverables

FAX  
 ADEx  
 Criteria Checker: ~~\_\_\_\_~~  
(Default based on Regulatory Criteria indicated)  
 Other Formats:  
 EMAIL (standard pdf report)  
 Additional Deliverables:  
 Report to: (if different than Project Manager)

ALPHA Job #: **L2038039**

### Billing Information

Same as Client info PO #:  
**Borden-wells@wedgroup.com**

### Regulatory Requirements/Report Limits

State/Fed	Program	Res/Comm

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List:

## All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION					Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS		Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum						TO-15	TO-15 SIM	
38039-01	SV-01	9/12/20	9:58	11:57	30.03	6.572	SV	ML	2.7L	3102	01542	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2.0 ← PID
-02	SV-02		10:06	12:04	30.08	5.30				2277	01831			2.0 ←
-03	SV-03		10:14	12:12	29.92	6.14				3100	01797			5.3 ←
-04	SV-04		9:07 <del>10:14</del>	11:04 <del>12:12</del>	30.27	6.09				2009	01829			1.3 ←
-05	SV-05		9:10	11:07	30.00	6.22				3194	01785			2.0 ←
-06	SV-06		9:39	11:37	29.77	4.97				2219	0215			2.0 ←

### \*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)  
 SV = Soil Vapor/Landfill Gas/SVE  
 Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:

Date/Time

Received By:

Date/Time

*Erick Sulzgar* 9/11/20 5:32  
*George Wagner* 9/11/20 9:41  
*John Wagner* 9/11/20 17:32  
*Eric* 9/11/20 23:00  
*Ken Bach* 9/12/20 04:45



## APPENDIX E

### Previous Reports

**PHASE I**

**ENVIRONMENTAL**

**SITE ASSESSMENT**

**June 21, 2013**

---

**Site Identification:** 331 Main Street  
City of Poughkeepsie  
Dutchess County, New York

**Tax Lot Identification:** 6162-78-127091

**Property Description:** Approximately 1.2-acre property containing an  
office building and parking lot.

**ESI File: RP13103.10**

---

**Prepared By:**



**Ecosystems Strategies, Inc.**

24 Davis Avenue, Poughkeepsie, NY 12603

phone 845.452.1658 | fax 845.485.7083 | [ecosystemsstrategies.com](http://ecosystemsstrategies.com)

**PHASE I**

**ENVIRONMENTAL**

**SITE ASSESSMENT**

**June 21, 2013**

**ESI File: RP13103.10**

**Prepared By:**

**Ecosystems Strategies, Inc.  
24 Davis Avenue  
Poughkeepsie, New York 12603**

**Prepared For:**

**Rhinebeck Bank  
2 Jefferson Plaza  
Poughkeepsie, New York 12601**

Phase I Environmental Site Assessment services performed by Ecosystems Strategies, Inc. have been conducted in accordance with ASTM Method E 1527-05.

The undersigned has reviewed this Phase I Environmental Site Assessment and certifies to Rhinebeck Bank that the information provided in this document is accurate as of the date of issuance by this office.



---

Paul H. Ciminello  
President

## TABLE OF CONTENTS

1.0	INTRODUCTION .....	1
1.1	Purpose of the Investigation	
1.2	Methodology	
1.3	Limitations	
1.4	Key Definitions	
2.0	SITE LOCATION AND DESCRIPTION .....	3
2.1	Description of the Subject Property	
2.1.1	Site Topography	
2.1.2	Site Geology	
2.1.3	Subsurface Hydrogeology	
2.1.4	Surface Hydrology and Wetlands	
2.1.5	Sensitive Environmental Receptors	
2.2	Description of Adjoining and Surrounding Area Properties	
3.0	INVESTIGATION .....	7
3.1	Site History	
3.1.1	User-Reported Information	
3.1.2	Interview with Key Site Manager	
3.1.3	Ownership Records	
3.1.4	Sanborn Fire Insurance Maps	
3.1.5	Municipal and Regulatory Agency Records	
3.2	Review of Federal and State Agency Records	
3.2.1	Methodology	
3.2.2	Findings of Regulatory Records Review	
3.3	Site Inspection	
3.3.1	Protocol	
3.3.2	Physical Characteristics of the Subject Property	
3.3.3	Specific On-Site Environmental Conditions	
3.3.4	Environmental Concerns at Adjoining and Nearby Properties	
4.0	CONCLUSIONS AND RECOMMENDATIONS .....	18
5.0	SOURCES OF INFORMATION .....	20
5.1	Maps and Documents	
5.2	Local Agency Records	
5.3	Communications	
6.0	ENVIRONMENTAL PROFESSIONAL STATEMENT .....	21

### FIGURES AND TABLES

Page 4	Table 1: Land Uses in the Vicinity of the Subject Property
Page 5	Site Location Map
Page 6	Selected Site Features Map
Page 8	Table 2: Ownership Information
Page 14	Table 3: Basement Radon Levels in Vicinity of Subject Property

### APPENDICES

A	<i>Site Photographs</i>	E	<i>Qualifications of Environmental Professional(s)</i>
B	<i>Physical-Setting Maps</i>	F	<i>Scope of Services</i>
C	<i>Sanborn Fire Insurance Maps</i>	H	<i>User and Key site Manager Questionnaire</i>
D	<i>Regulatory Review Database Report</i>		

## 1.0 INTRODUCTION

### 1.1 Purpose of the Investigation

This Phase I Environmental Site Assessment (Phase I ESA) identifies recognized environmental conditions (RECs) and/or other significant environmental liabilities resulting from or associated with the storage, use, transport, or disposal of hazardous or regulated materials on the property located at 331 Main Street, City of Poughkeepsie, Dutchess County New York (property descriptions are presented in Sections 2.1 and 3.3.2).

### 1.2 Methodology

This Phase I ESA has been prepared in conformance with guidelines set forth by the American Society for Testing and Materials (ASTM) Method E1527-05 (no exceptions to or deletions from this practice have occurred). The detailed Scope of Services adhered to in this investigation is provided as Appendix F. This environmental site assessment was performed under the direct supervision and responsible charge of a qualified environmental professional (see Appendix E), following the requirements for "all appropriate inquiry" as defined in 40 CFR Part 312.

Ecosystems Strategies, Inc. (ESI) performed the following work:

1. Investigation of the subject property's history and characteristics through the analysis of available historic maps, local and regional maps, local governmental and/or Tribal records, and information provided by subject property representatives and other knowledgeable individuals (see Section 5.0 for references).
2. Review of Federal, State, and/or Tribal regulatory-agency computer databases and printed records for documentation of potential environmental liabilities relevant to the property, consistent with (or exceeding) applicable ASTM requirements.
3. Inspection of the property by Paul Ciminello and Jerry Bernau of ESI on June 6, 2013 (Ashok Mandava, Vice President Infrastructure Services for Indotronix International Corporation, and Cas Kuchinsky, Operations Supervisor, were present during the site inspection).

### 1.3 Limitations

This Phase I ESA is an evaluation of the property described in Section 2.1 below and is not valid for any other property or location. It is a representation of the property analyzed as of the dates that services were provided. This Phase I ESA cannot be held accountable for activities or events resulting in environmental liability after the respective dates of the site inspection or historic and regulatory research.

This Phase I ESA is based in part on certain information provided in writing or verbally by federal, state, and local officials (including public records) and other parties referenced herein. The accuracy or completeness of this information was not independently verified. Unless specifically noted, the findings and conclusions contained herein must be considered not as scientific certainties, but as probabilities based on professional judgment.

## 1.4 Key Definitions

Definitions of some common terms found in ASTM Standard 1527-05, as used in this Phase I ESA, are provided below.

### Activity and Use Limitations (AULs)

Legal or physical restrictions or limitations on the use of, or access to, a site or facility to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil or ground water on the property, or to prevent activities that could interfere with the effectiveness of a response action. AULs may include institutional and/or engineering controls.

### Key Site Manager

The person identified by the owner or operator of a property as having good knowledge of the uses and physical characteristics of the property.

### Practically Reviewable

Information that is provided by a source in a manner and in a form that yields information relevant to the property without the need for extraordinary analysis of irrelevant data is Practically Reviewable. Records must be for a limited geographic area. Records arranged chronologically, lacking adequate address information to be located geographically, in large databases that are not sorted by zip code, or are so numerous to be unmanageable are not generally practically reviewable (i.e. data cannot be feasibly reviewed for its impact on the property).

### Reasonably Ascertainable

Information that is (1) publicly available, (2) obtainable from its source within reasonable time and cost constraints, and (3) practically reviewable is Reasonably Ascertainable.

### Recognized Environmental Conditions (RECs)

The presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate (1) an existing release, (2) a past release, or (3) a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, ground water, or surface water of the property. Material threat means a physically observable or obvious threat that is reasonably likely to lead to a release that is threatening and might result in impact to public health or the environment.

The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

### User

Any party, including its successors and assigns, seeking the completion of an environmental site assessment in conformity with ASTM Standard 1527-05.

## **2.0 SITE LOCATION AND DESCRIPTION**

### **2.1 Description of the Subject Property**

The subject property as defined in this Phase I ESA consists of the approximately 1.2-acre property located at 331 Main Street, City of Poughkeepsie, Dutchess County New York (identified as City of Poughkeepsie tax lot parcel: 6162-78-127091). A Site Location Map is provided on Page 5.

The property is long irregularly shaped parcel with non-contiguous frontage on the northern side of Main Street, western side of Catharine Street, and Southern side of Mill Street. One four-story building with a three-story addition to the east occupies the southern portion of the property. The remainder of the property is composed of a paved parking lot with peripheral landscaped areas. A map illustrating the layout of the property is provided on Page 6 and photographs of the property are provided in Appendix A.

#### **2.1.1 Site Topography**

Information on the subject property's topography was obtained from the review of the United States Geological Survey Topographic Map of the Poughkeepsie, New York Quadrangle (a copy of the relevant portion of this map, with the subject property indicated, is provided in Appendix B). According to the Topographic Map, the property is located an area with a moderate overall westerly downward slope towards the Hudson River. The property has a surface elevation of approximately 180 feet above mean sea level. Field observations confirm that the property is relatively level.

The topographic map did not indicate the presence of any soil/gravel mining operations or unusual topographic patterns indicative of landfilling activities on the subject property. No on-site structures are depicted on the topographic map (the property is located in an urban area where only selected landmark buildings are depicted).

#### **2.1.2 Site Geology**

No information regarding site-specific investigations of the subsurface (e.g., test pits or borings) was readily available; therefore, no documented determinations are provided in this Phase I ESA. A review of the Geologic Map of New York and the Surficial Geologic Map of New York (lower Hudson sheets) indicates that soils on the subject property are likely to consist of glacial till deposits, overlying Taconic Mélange, a mixture of shale and sandstones of variable clast size. Soil maps presented in the USDA NRCS Soil Survey of Site Dutchess County, New York (Soil Survey) indicate that the property consists of Urban Land. The Urban Land designation is provided for areas where at least 50% of the surface is covered by buildings, parking areas or other impervious structures, and specific soil and bedrock characteristics are generally not well known.

#### **2.1.3 Subsurface Hydrogeology**

No site-specific investigation of groundwater depth or direction of flow has been reviewed by this office; therefore, no documented determinations are provided in this Phase I ESA. The Soil Survey does not specifically indicate groundwater depth information for the Urban Land soil classification. No other data documenting groundwater depth, or site-specific investigation of groundwater direction of flow, has been reviewed by this office. Shallow groundwater flow in the vicinity of the property is likely to follow surficial topography and be to the west, toward the Hudson River (located approximately 0.8-mile from the property).

### 2.1.4 Surface Hydrology and Wetlands

Information regarding on-site surface hydrology was obtained from the review of applicable maps, including the New York State Department of Environmental Conservation (NYSDEC) Freshwater Wetlands Map and the United States Department of the Interior National Wetlands Inventory Map, and from observations made during the site inspection. According to these sources, there are no surface water bodies, wet areas, or regulated wetlands on or near the property. Relevant portions of the state and federal wetlands maps are included in Appendix B.

### 2.1.5 Sensitive Environmental Receptors

Sensitive Environmental Receptors (SERs) are valued physical, biological, and/or man-made features that may be adversely impacted by environmental contamination, and where a discharge or release could pose a greater threat than a discharge or release to other less valued areas. SERs include (but are not limited to) potable supply wells, wetlands, and protected wildlife habitat.

The review of maps and observations made during the site inspection indicate that no SERs are located on or in the immediate vicinity of the subject property.

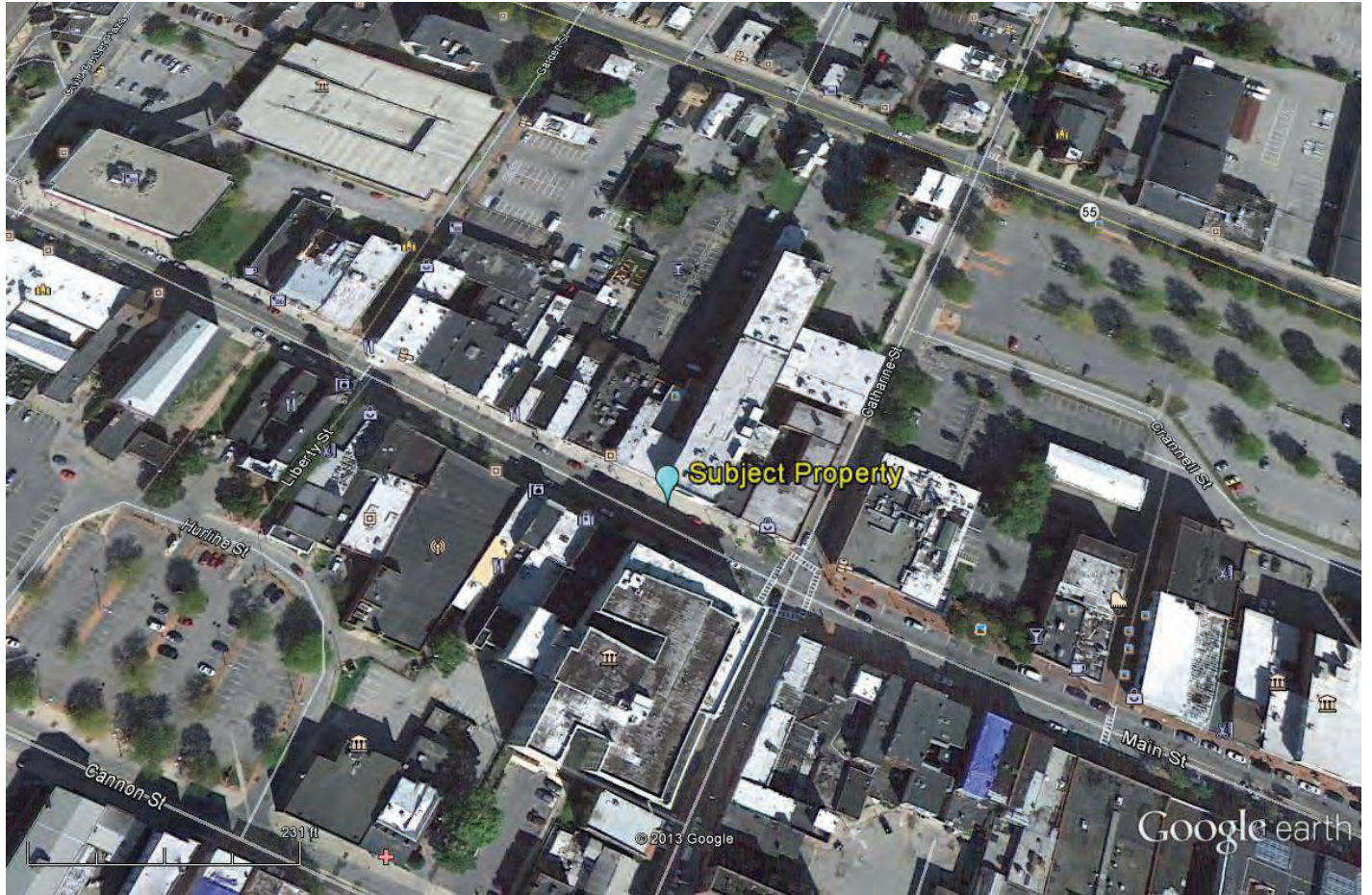
## 2.2 Description of Adjoining and Surrounding Area Properties

The subject property is located in an urban area comprised primarily of commercial and mixed-use properties. A description of the adjoining and nearby properties is provided in Table 1, below.

**Table 1: Land Uses in the Vicinity of the Subject Property**

Direction	Adjoining Use(s)	Vicinity Use(s)
North	<ul style="list-style-type: none"> <li>• Mixed use (office and residential)</li> </ul>	<ul style="list-style-type: none"> <li>• Mixed use (office and residential)</li> </ul>
East	<ul style="list-style-type: none"> <li>• Parking</li> </ul>	<ul style="list-style-type: none"> <li>• Commercial</li> </ul>
South	<ul style="list-style-type: none"> <li>• Mixed use (commercial, office, and residential)</li> </ul>	<ul style="list-style-type: none"> <li>• Mixed use (commercial, office, and residential)</li> </ul>
West	<ul style="list-style-type: none"> <li>• Parking</li> <li>• Office</li> </ul>	<ul style="list-style-type: none"> <li>• Office</li> <li>• Commercial</li> </ul>





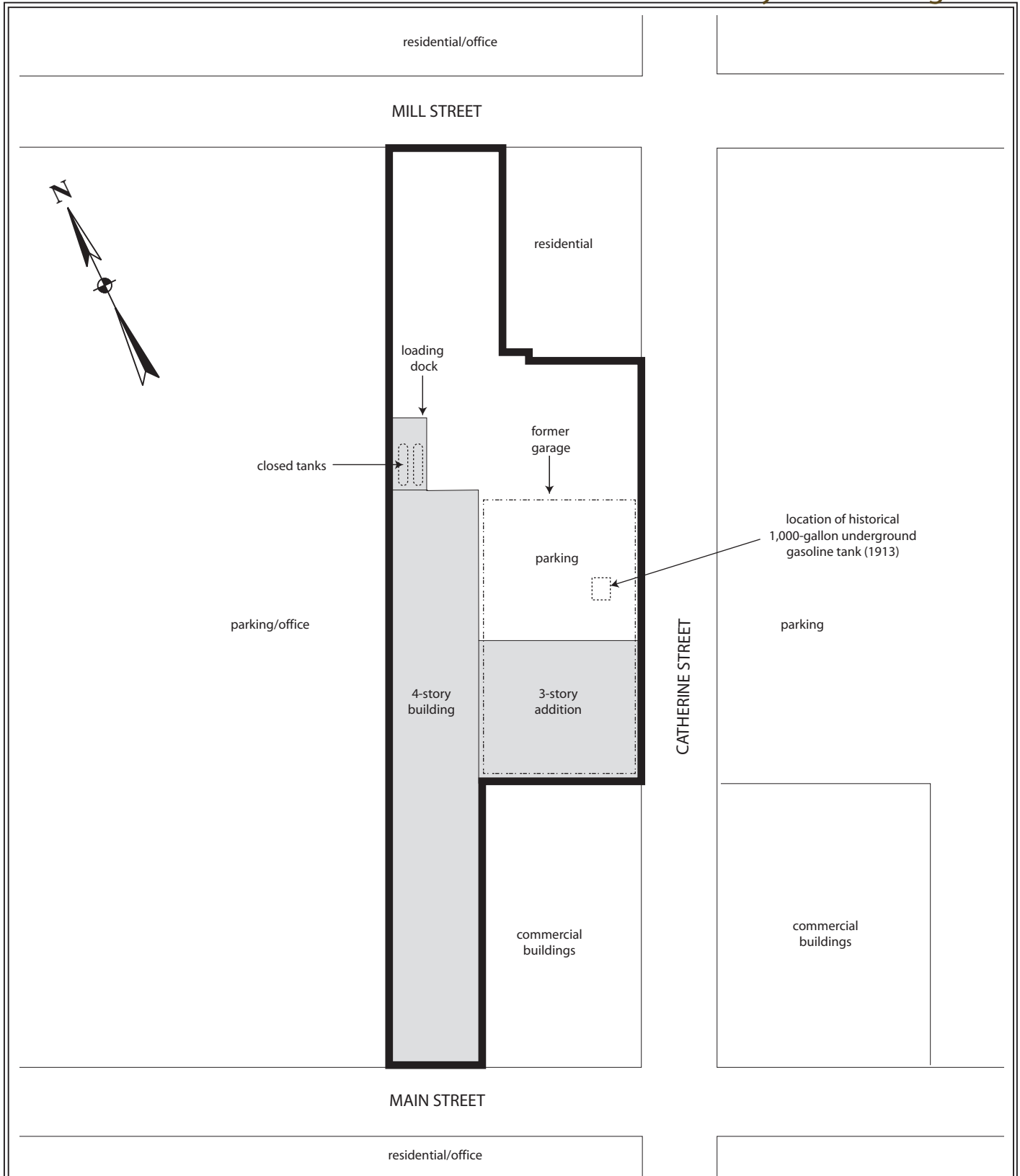
**Site Location Map**  
331 Main Street  
City of Poughkeepsie  
Dutchess County, New York



ESI File: RP13103.10

June 2013

Page 5



All feature locations are approximate. This map is intended as a schematic to be used in conjunction with the associated report, and it should not be relied upon as a survey for planning or other activities.

**Selected Site Features Map**

331 Main Street  
 City of Poughkeepsie  
 Dutchess County, New York

Legend:

 subject property border

ESI File: RP13103.10

June 2013

Scale: 1" = 70' approximately

Page 6

## **3.0 INVESTIGATION**

### **3.1 Site History**

The history of the subject property was researched using reviews of ownership records, historic maps, local records, and an interview with a knowledgeable individual. This review included both standard environmental record sources (as specified in ASTM 1527-05) and additional sources (if such sources were judged to be reasonably ascertainable and sufficiently useful, accurate, and complete in light of the objective of the records review). Refer to Sections 3.1.3, 3.1.4 and 3.3.2.1 for Site Ownership and Site Use information.

Available data (Sanborn Fire Insurance Maps) indicate that the property was in use as a department store and livery building circa 1887. Reasonably ascertainable information indicating the property use prior to 1887 was not available.

#### **3.1.1 User-Reported Information**

ASTM Practice E 1527-05, Section 6, requires that the User (the party seeking to complete the environmental site assessment of the property) provide specific information to the Environmental Professional in order to meet the requirements for "all appropriate inquiry". James T. McCardle III, the representative of the User (Rhinebeck Bank) has not responded to a questionnaire provided by ESI, which requested information regarding the subject property as specified in Section 6. However, the site contact has responded to a copy of this questionnaire (a copy of this questionnaire is provided in Appendix H).

James T. McCardle III did not state the reason why Rhinebeck Bank wanted to have the Phase I Environmental Site Assessment performed, and ESI therefore assumes that the reason is to qualify for one or more Landowner Liability Protections (LLPs) to CERCLA liability.

#### **3.1.2 Interviews with Key Site Manager**

Ashok Mandava, representing Indotronix International Corporation (IIC), was identified as a Key Site Manager for the subject property. Mr. Mandava was interviewed by ESI personnel regarding the topics detailed in the User Questionnaire (see Section 3.1.1, above), and was additionally asked to provide specific information regarding property features, site history and use, and commonly known information related to the property.

Mr. Mandava, provided relative information which is discussed in this report, he had no other specialized knowledge or experience, actual knowledge, or knowledge of commonly known or reasonably ascertainable information regarding potential environmental conditions and/or liabilities in connection with the property. Pertinent information from this interview is provided in relevant report sections, where appropriate.

#### **3.1.3 Ownership Records**

Property ownership information, based on a review of Site Town Assessor's Office and Building Department records, is presented in Table 2, below. This ownership summary does not constitute a title search.

**Table 2: Ownership Information**

Parcel ID	Owner	Date of Conveyance
6162-78-127091	Indotronix International Properties, Inc.	1/29/1998
	Indotronix International Corp.	11/01/1994
	Ducorsky, Raymond	7/06/1994
	Sheen, Edward L. and Arnold	10/12/1983
	Candy Lane Corp.	9/17/1981
	Lawrence, S.	2/25/1980
	333 Realty Corp.	8/11/1977
	Ducorsky, Raymond and Newman, Seymour	4/21/1977

### 3.1.4 Sanborn Fire Insurance Maps

A summary of the information obtained from the review of historic Sanborn Fire Insurance Company Maps dated 1887, 1895, 1913, 1950, 1952, 1984, and 1990 is provided below. Copies of relevant Sanborn maps with the subject property indicated are provided in Appendix C.

- 1887: The southern portion of the site, adjacent to Main Street, is shown with a four-story commercial structure. The eastern portion of the site, adjacent to Catharine Street, is noted to contain the following, moving from north to south: a two-story office building; marble yard; a carriage house and stable, and a shirt manufacturer which is noted to have been “totally destroyed by a fire.” The northern portion of the site, adjacent to Mill Street, contains residential buildings. The adjoining properties and surrounding areas consist of predominantly mixed commercial and residential properties. No petroleum or chemical bulk storage tanks are noted on the subject property, adjoining properties, or in the surrounding area.
- 1895: The site of the shirt manufacturer, previously noted as being destroyed in a fire, is now vacant. No other significant changes are noted on the subject property, adjoining properties, or in the surrounding area.
- 1913: Minor changes in use are noted at the commercial structure at Main Street, which is now a department store. The areas along Catharine Street (formerly vacant and a carriage house) now contain a large garage and repair shop. This building is noted to contain sections for painting, vulcanization, and machine work. A “1000 gallon gasoline tank under floor” is noted in the building. No other significant changes are noted on the property. The adjoining property to the south (formerly commercial) is now listed as a large department store. No other significant changes are noted on the adjoining properties, or in the surrounding area.
- 1950: The department store expanded to the north and the building seems to be adjoined to the former garage buildings along Catharine St. which are shown to be utilized as divisions of the department store such as a paint department and taxi repair, the 1,000-gallon underground gasoline tank is no longer noted on the property. No other significant changes are noted on-site. The adjacent property to the Northwest now contains an undertaker. The adjoining property to the west (formerly commercial), is now vacant. No other significant changes are noted in adjacent or surrounding properties.



- 1952: The northern portion of the property (formerly residential) is now shown as vacant. No other significant changes are noted on the subject property, adjoining properties, or in the surrounding area.
- 1984: No significant changes are noted on the subject property. The adjacent property to the east (formerly mixed residential and commercial), is now vacant. No other significant changes are noted on adjoining properties, or in the surrounding area.
- 1990: The building adjacent to Main Street is no longer used as a department store. It is listed as an institutional space, which is vacant above the first floor. Part of the building on the property adjoining Catharine Street is now vacant and commercial space; the building is now shown with a loading dock opening up to the north. No other significant changes are noted on-site. The adjacent property to the northwest (formerly an undertaker) is now noted as an office building. No other significant changes are noted on adjoining properties, or in the surrounding area.

### **3.1.5 Municipal and Regulatory Agency Records**

#### **Assessor's Office Records**

City of Poughkeepsie Assessor's Office property card records for the subject property were reviewed on June 6, 2013. No information pertinent to the environmental integrity of the subject property was present in these records. A summary of the readily available property ownership information is provided in Table 2.

#### **Building Department Records**

City of Poughkeepsie Building Department records for the subject property were reviewed on June 6, 2013. No information pertinent to the environmental integrity of the subject property was present in Building Department records provided for review.

#### **Local Agency Interviews**

##### *Health Department*

A request was made on June 4, 2013 to search the Dutchess County Health Department: Environmental Health Services records for information regarding the subject property. According to Tanya Clark, of Environmental Health Services, no records were found that pertained to environmental conditions at this site.

##### *City of Poughkeepsie Fire Department*

A request was made on June 4, 2013 to search the City of Poughkeepsie Fire Department (CPFD) records for information regarding the subject property. According to Karen O. Lewis (CPFD) there is an "unofficial notation in a log book" that indicates the subject property had two, 1000-gallon tanks removed on June 15, 1979. No other records exist regarding on-site storage tanks, industrial use of the property, or other uses and/or conditions relevant to this assessment.

### **3.2 Review of Federal and State Agency Records**

#### **3.2.1 Methodology**

Federal and state computer databases and printed records were reviewed for documentation of environmental conditions and/or liabilities relevant to the property (see Section 3.2.2, below). The

following ASTM Standard Environmental Record Sources (as available for the subject property's locality) were reviewed (search distances are consistent with, or exceed, ASTM requirements).

Federal National Priority List (1.0 mile) and delisted National Priority List sites (0.5 mile)  
Federal CERCLIS list and CERCLIS NFRAP site list (0.5 mile)  
Federal RCRA CORRACTS facilities list (1.0 mile)  
Federal RCRA non-CORRACTS TSD facilities list (0.5 mile)  
Federal RCRA generators list (subject/adjoining properties)  
Federal ERNS list (subject property)  
Federal, State, and Tribal Institutional Control / Engineering Control registries (subject property)  
State- and Tribal-equivalent NPL (1.0 mile)  
State- and Tribal-equivalent CERCLIS (0.5 mile)  
State and Tribal Brownfield and voluntary cleanup sites (0.5 mile)  
State and Tribal leaking storage tank lists (0.5 mile)  
State (including locally administered) and Tribal registered storage tank lists (subject/adjoining)  
State and Tribal landfill and/or solid waste disposal site lists (0.5 mile)

The following Additional Environmental Record Sources (as available for the subject property's locality) were reviewed in order to enhance and supplement the review of standard sources:  
State spill file records (0.125 mile)\*  
State MOSF list (0.5 mile)  
State radon data (by local municipality as available)  
Federal and State wastewater discharge permits (subject/adjoining properties)

\* *The search distance for this database has been reduced due to the high level of development of the area in which the subject property is located.*

A copy of relevant portions of a database search conducted by Environmental Data Resources, Inc. for ESI is provided in Appendix D. Not all of the sites contained in the attached database search may be referenced in Section 3.2.2. Some sites may have been excluded based on either ASTM requirements, ESI's scope of services or professional opinion, and/or information obtained during the review of historic records and the site inspection. Some information may have been deemed to not be practically reviewable (e.g., records lack adequate address information). Sites or additional information not included in the database search may also be referenced based on ESI's knowledge of the subject property area.

### **3.2.2 Findings of Regulatory Records Review**

#### **Federal Hazardous Waste-Contaminated Sites**

The subject property is not identified on the United States Environmental Protection Agency's (USEPA) National Priority List (NPL) of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions. One NPL site is located within one mile of the property. The "Hudson River Site" (EPA ID: NYD98076841) is located approximately 0.8 mile west of the subject property. No delisted NPL sites are located within a half mile of the property.

The subject property is not identified on the USEPA's CERCLIS list of sites that are proposed to the NPL or that are in the screening and assessment phase for possible proposal to the NPL. No CERCLIS sites are located within a half mile of the property.

The subject property is not identified on the USEPA's CERCLIS No Further Remedial Action Planned (NFRAP) list, which are former CERCLIS sites that were delisted because no significant hazardous waste contamination was found, or because the site has been remediated. One CERCLIS NFRAP site is located within a half mile of the property. The "Mill Street Site" (EPA ID: 0204215) is approximately 0.2 mile east of the subject property at 368 Mill Street.

The subject property is not identified on readily available USEPA Institutional Control/Engineering Control registries.

Based on ESI's review of reported information (distance and direction to the site, type of regulated materials, etc.), these identified sites are not likely to significantly impact the subject property.

### **State Sites**

#### *Inactive Hazardous Waste Disposal Sites*

The subject property is not identified on the NYSDEC's Registry of Inactive Hazardous Waste Disposal (IHWD) sites (a state equivalent to the federal NPL), and has not been listed as a site under investigation for inclusion in the IHWD Registry (a state equivalent to the federal CERCLIS List). No NYSDEC IHWD sites are located within one mile of the property.

#### *Voluntary Cleanup, Brownfields Cleanup, and Environmental Restoration Programs*

The subject property is not identified as participating in the NYSDEC's Voluntary Cleanup (VCP), Brownfields Cleanup (BCP), or Environmental Restoration (ERP) programs, which are designed to provide NYSDEC oversight of significantly contaminated properties. The database review indicates that the "'400 Block' Restoration Area" (NYSDEC ID: 57911), located less than 0.1 mile northeast of the subject property at 413-441 Main Street, is an ERP site. The NYSDEC has assigned this site a classification code of "C", indicating that remediation has been satisfactorily completed. Based on ESI's review of reported information (distance and direction to the site, type of regulated materials, etc.), this site is not likely to impact the subject property.

#### *Registry of Institutional and Engineering Controls in New York State*

The subject property is not identified on the NYSDEC's Registry of Institutional and Engineering Controls in New York State.

### **Federal Hazardous Waste Handlers**

The USEPA Resource Conservation and Recovery Information System (RCRIS) database details facilities that report treatment, storage or disposal of hazardous waste (TSD facilities) or generation or transportation of hazardous waste. Facilities that have been notified by the USEPA to take corrective action with regard to their handling of hazardous waste are classified as CORRACTS facilities.

#### *CORRACTS AND/OR TSD FACILITIES*

The subject property is not registered with the USEPA as a CORRACTS and/or TSD facility for hazardous waste or materials. One CORRACTS site is located within one mile of the property. The "James Burn International Division of Standex Co." site (USEPA ID: NYD089103840), located approximately 0.7 mile east of the subject property at 205 Cottage Street, is registered with the USEPA as a manufacturing facility of low corrective action priority. No other CORRACTS or TSD facilities are located within one mile of the subject property.

Based on ESI's review of reported information (distance and direction to the site, type of regulated materials, etc.), this site is not likely to significantly impact the subject property.

#### *GENERATORS OR TRANSPORTERS (NON-CORRACTS)*

The subject property is not registered with the USEPA as a generator or transporter of hazardous waste, and no generators or transporters of hazardous waste are located on adjoining properties.

### **Landfills and Solid Waste Disposal Facilities**

The NYSDEC's Facility Register does not list the subject property as an active or inactive landfill or solid waste disposal facility. One solid waste disposal facility is located within a half mile of the property. The "G. F. Refuse T.S." site, located approximately 0.2 mile west of the subject property at 240 Main Street, is an inactive transfer station. No information regarding the types or quantities of materials handled at this site was provided in readily available records. No other inactive landfill or solid waste disposal facilities are located within a half mile of the subject property.

Based on ESI's review of reported information (distance and direction to the site, type of regulated materials, etc.), this site is not likely to significantly impact the subject property.

### **Chemical Bulk Storage**

A review of NYSDEC records indicates that the subject property is not registered as a chemical bulk storage (CBS) facility. Observations made during the site inspection did not indicate the presence of chemical bulk storage on the subject property. No adjoining properties are registered with the NYSDEC as CBS facilities.

### **Petroleum Bulk Storage**

#### **SUBJECT PROPERTY**

A review of the NYSDEC PBS indicates that the subject property is not registered as a PBS facility. During the site inspection a 400-gallon above ground storage tank (AST) was noted to the north of the Catharine street addition in connection with an emergency generator. The remnants of two fill ports in the loading dock were also noted. According to Mr. Mandava, these ports connect to two tanks of unknown size that were used to fuel the heating system until the building switched to gas in 1997, when they were filled with sand and sealed in 1997.

#### *State PBS Regulations*

NYSDEC Petroleum Bulk Storage regulations (6 NYCRR Parts 612-614) apply to facilities with one or more stationary tanks used for storage or containment of more than 1,100 gallons, properties with USTs greater than 110 gallons and/or properties with used oil USTs and/or ASTs (storage capacity excludes ASTs of 1,100 gallons or less used to store oil or kerosene for on-site heating, and includes out-of-service regulated tanks that have not been permanently closed). Because the capacity of the two tanks in the loading dock is unknown, the subject property may be subject to regulation as a PBS facility. These regulations call for the proper registration of all regulated on-site tanks and require specific tank testing protocols. No PBS registration forms or tank testing records have been provided to this office.

#### **ADJOINING PROPERTIES**

A review of the NYSDEC PBS database indicates 332 Main Street, which adjoins the subject property to the south, is a PBS facility (PBS Number: 3-601898). This facility has one, active 4,000-gallon fuel oil AST. The adjoining property at 347 Main Mall is also an active PBS facility (PBS Number: 3-172383), and contains a 5000 gallon gas tank. Another 5000 gallon tank at 347 Main Mall (NYSDEC ID: I58178) failed and leaked oil, this tank was removed and the site was remediated. No open NYSDEC spill events are reported for these adjoining properties. No other overt evidence of PBS tanks was noted on adjoining properties.

### **Major Oil Storage Facilities**

The subject property is not listed with the NYSDEC as a major oil storage facility (MOSF) and no MOSFs are located within a half mile of the subject property.



### **Federal Chemical and Petroleum Spills**

The USEPA Emergency Response Notification System (ERNS) database details initial reports of releases of oil and hazardous substances as reported to federal authorities. There are currently no chemical or petroleum spills on record for the subject property.

### **State Chemical and Petroleum Spill and Leaking Underground Storage Tank Events**

A review of the NYSDEC spill database (maintained since 1986) indicates that no spill events are known to have occurred on the subject property. Several spill events are known to have occurred within a half mile of the subject property have been reviewed.

Information in these spill file records was reviewed to determine the possible impact from these releases to the subject property. The data considered included distance and direction from the subject property, cause of the spill, type and quantity of spilled material, and NYSDEC and caller comments. Based on ESI's review of this information, no reported spills were identified that might impact the subject property.

### **Air Discharges**

No NYSDEC permits for air discharges from the subject property are known to exist. No operations likely to require a NYSDEC air discharge permit were noted on the subject property.

### **Wastewater Discharges**

No USEPA National or NYSDEC State Pollutant Discharge Elimination System (NPDES or SPDES) permit is known to exist for the subject property. No wastewater discharges are known to exist on the subject property. No operations likely to require a NPDES or SPDES permit were noted on the subject property. According to information provided by the property representative, the subject property is connected to the municipal wastewater system. No adjoining properties are registered as NPDES or SPDES facilities.

### **Radon**

Information on radon levels was obtained from New York State Department of Health (NYSDOH) documents. No regulatory standards for radon levels currently exist in New York State. The USEPA has established a guidance value (the level where mitigation measures may be appropriate) for radon concentrations of 4.0 or greater picoCuries/liter (pCi/l). Other regulatory authorities (e.g., OSHA) have established guidance levels that are directly related to specific site activities (a determination as to applicable radon guidance levels is beyond the scope of this Phase I Environmental Site Assessment). A summary of available radon information for the subject property's vicinity is provided below in Table 3.

**Table 3: Basement Radon Levels in Vicinity of Subject Property**

All radon levels provided in picoCuries/liter (pCi/l)

<b>NYSDOH Radon Information</b>	<b>Dutchess County</b>	<b>Town of Poughkeepsie</b>
Number of Homes Tested	3,117	1,083
Median Radon Level	4.04	3.42
Percent of Homes >4.0 pCi/l	48.9	45.1

These median radon levels are below the USEPA's guidance value of 4.0 pCi/l; however, more than a third of the homes tested in the subject property's vicinity had levels in excess of this guidance value. These data support the conclusion that elevated radon levels may be present on the subject property. According to Mr. Mandava, radon testing has not been conducted on the subject property. The absence of any residential use of the property suggests that radon testing is not required at this time.

### **3.3 Site Inspection**

#### **3.3.1 Protocol**

The site inspection was conducted on June 6, 2012 in order to address any potential concerns raised during the investigation of the site's history (Section 3.1) and the regulatory agency records review (Section 3.2), and to identify any additional indications of contamination from the use, storage, or disposal of hazardous or regulated materials. To the extent possible, site structures, vegetation, topography, surface waters, and other relevant site features were examined for any obvious evidence of existing or previous contamination or unusual patterns (e.g., vegetative stress, soil staining, surface water sheen, or the physical presence of contaminants), which would indicate that the environmental integrity had been or could be impacted.

Section 3.3.2 describes the physical characteristics of the subject property. Section 3.3.3 is divided into topics on specific environmental conditions or concerns, actual or potential, noted on the subject property during the site inspection. Section 3.3.4 describes the physical characteristics of adjoining properties as they concern the potential or actual environmental condition of the subject property.

A Selected Site Features Map illustrating the general layout of the subject property and the locations of specific areas of concern (if any) is provided on Page 6. Photographs of the subject property are provided in Appendix A.

#### **3.3.2 Physical Characteristics of the Subject Property**

##### **3.3.2.1 Property**

The subject property is an elongated, irregularly shaped property, approximately 1.2 acre parcel, which has approximately 50 feet of frontage on the northern side of Main Street, 200 feet or frontage on the western side of Catharine Street, and 50 feet of frontage on the southern side of Mill Street. The property extends approximately 430 feet from north to south and 120 feet from east to west. A large, three and four-story building occupies roughly half the site to the south. The remainder of the property is composed of pavement with peripheral landscaping. A metal fence defines the western and northern borders; the remaining property lines are outlined by the building. The first two floors of the building are currently used as office space by its current owners (IIC), with the third and fourth floor leased for light manufacturing and storage, the remainder of the building is vacant.

### **3.3.2.2 Structures**

According to historical maps, portions of the existing structure were constructed some time prior to 1887 and modified until the building reached its present configuration between circa 1913 and circa 1950. The masonry structure is three and four-stories, has a basement, and a sealed flat roof of rubber sheeting that was installed in the 1990s. Walls consist of gypsum wallboard and plaster. The ceilings consist of dropped acoustic tiles, and tin ceiling tiles.

#### *Potable Water Supply*

According to available information the subject property is serviced by the municipal water system. No water supply wells were noted on the subject property during the site inspection and no on-site uses of groundwater are known to exist for the subject property.

#### *Sewage Disposal System*

According to available information, the on-site structure is connected to the municipal sewer system.

#### *Heating/Cooling*

The structure is heated using natural gas-fueled boilers. Basement units heat public areas such as the halls and stairwells, roof-top units heat office and tenant space. Several air-conditioning units were noted on the loading dock roof.

### **3.3.3 Specific On-Site Environmental Conditions**

#### **Petroleum Storage**

One, 400-gallon diesel AST for a generator is located on-site. This tank appeared to be sound and was noted to be free of signs of corrosion, staining or leakage. Based upon the large size of the building and the boilers, the fuel oil tanks that once fueled this building are likely to be large capacity tanks. Other than an "unofficial notation in a log book" of the City of Poughkeepsie Fire Department that indicates the subject property had two, 1000-gallon tanks removed on June 15, 1979 (location unknown), no known records document these tanks. Two fill ports were noted in the loading dock. Mr. Mandava stated that these tanks were filled with sand and sealed in 1997 when the building switched from fuel oil to gas. No documentation exists of the tanks closure. No other small quantities of petroleum products, aboveground storage tanks or indications of underground petroleum storage tanks (e.g., fill ports or vent pipes) were observed on the subject property.

#### **Chemical Storage**

No evidence of the on-site storage or use of chemical products (small containers, aboveground tanks or indications of underground tanks) was observed on the subject property during the site inspection.

#### **Asbestos-Containing Materials**

Asbestos-containing materials (ACMs) are those materials containing over 1% of any type of asbestos. The presence or absence of asbestos within a material can only be determined through the physical analysis of material samples.

Asbestos has been incorporated into a wide variety of building products based on its thermal and resilient qualities, including insulation, flooring, siding, roofing, plaster/joint compounds, ceiling tiles, textured paints and pipewrap. The federal government began regulating and/or prohibiting

the use of ACM in specific applications as early as 1973, and the EPA issued a final rule in 1989 banning most asbestos-containing products; the majority of this rule, however, was overturned by the courts in 1991. Although ACMs are no longer used as extensively as they were prior to the 1970s, asbestos may still be found in common building products used today, such as cement products, roofing and vinyl floor tile.

According to Mr. Mandava, no asbestos survey of the subject property has been conducted. Suspect ACMs noted during the site inspection included thermal insulation on the old boilers, 12" by 12" vinyl floor tiles, dropped acoustic ceiling tiles, and plaster. The asbestos insulation on the furnace was cracked in some places. All other materials appeared to be in good condition. Other building construction materials not readily observable during the site inspection (e.g., mastics, pipe insulation present within walls, etc.) could also contain asbestos.

### **Lead-Based Paint**

The presence or absence of lead-based paint (paint containing 0.5% lead by weight) can only be determined through the material analysis of paint samples. However, given that the manufacture of lead-based paint (LBP) has been regulated since 1978, a building's date of construction is often used to help assess the likelihood that LBP was used during initial construction and/or subsequent maintenance work. The presence of deteriorated paint is indicative of a potential health risk in that paint dust and chips containing lead could be inhaled and/or ingested.

The date of construction of the on-site building (prior to 1887 in some sections) indicates that LBP is likely to have been used; however, in the absence of a LBP survey, no definitive statement can be made by this office regarding the presence or absence of LBP on the subject property. Paint in poor condition was noted in portions of the fourth floor.

### **Wastewater Discharges**

The term "wastewater" indicates water that: (1) is or has been used in an industrial or manufacturing process; (2) or is directly related to manufacturing, processing, or raw materials storage areas at an industrial plant; (3) or conveys or has conveyed sewage (water originating on or passing through or adjacent to a site, such as stormwater flows, is not generally considered to be wastewater). No evidence of wastewater discharges into drains, ditches, or streams on or adjacent to the property was observed on the subject property.

### **Interior Floor Drains/Sumps/Conduits**

A sump was located near the entrance door in the boiler room. No staining, odors, or other evidence of contamination was noted in or near this sump. No other floor drains, sumps, or conduits to the subsurface were noted inside on-site structures.

### **Stormwater Management and Exterior Drains/Sumps/Conduits**

Stormwater drains leading to dry wells are located in the parking lot. No staining, odors, or other evidence of contamination was noted in or near any of the drains. No other exterior stormwater catch basins, drains, sumps, or other potential significant conduits to the subsurface, or indications of liquid discharges into drains, ditches, or streams on or adjacent to the property, were observed on the subject property.

### **Staining/Corrosion/Leaks**

Minimal staining is present in parking lot. No other evidence of corrosion, leaks, or staining (indicative of an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products onto the subject property) was observed during the site inspection.

### **Topographic Irregularities**

No overt topographic irregularities (e.g., sinkholes or berms) indicative of the presence of non-natural materials (including debris) in the subsurface were observed on the subject property.

### **Vegetative Features**

No overt areas of stressed or dying vegetation indicative of the presence of contaminants in surface or subsurface soils were observed on the subject property.

### **Pits, Ponds, or Lagoons**

No pits, ponds, or lagoons exhibiting evidence (e.g., discolored water, distressed vegetation, obvious wastewater discharge) of holding liquids or sludge containing hazardous substances or petroleum products were observed on the subject property.

### **Surface Waters**

No surface water bodies are located on the subject property.

### **Odors**

No unusual odors indicative of the presence of contamination were noted.

### **Polychlorinated Biphenyls**

An inspection for the presence of equipment likely to contain polychlorinated biphenyls (PCBs) was conducted by this office. PCBs were widely used in equipment such as transformers, capacitors, and hydraulic equipment until 1979 when the USEPA regulated their use in this capacity. Large numbers of fluorescent light fixtures, present throughout the on-site structure, may potentially contain PCBs. [Note: Florescent lamp fixtures containing ballasts manufactured before July 2, 1979 are likely contain PCBs, and ballasts manufactured between 1979 and 1998 that do not contain PCBs, should be labeled "No PCBs". If a ballast is not labeled "No PCBs", it is prudent to assume it contains PCBs.] No other equipment likely to contain PCBs was noted on the subject property.

### **3.3.4 Environmental Concerns at Adjoining and Nearby Properties**

Adjoining and nearby properties were observed from the subject property and from public thoroughfares for the purpose of identifying any recognized environmental conditions or other potential environmental concerns. No conditions likely to significantly impact the subject property were observed during the site inspection.

## 4.0 CONCLUSIONS AND RECOMMENDATIONS

Ecosystems Strategies, Inc. (ESI) has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05 of the property located at 331 Main Street, City of Poughkeepsie, Dutchess County New York. Any exceptions to, or deletions from, this practice are described in Section 1.2 of this report. This assessment has revealed evidence of the following recognized environmental conditions (RECs) in connection with the property:

- Historic presence of gasoline underground storage tank (UST)
- Potential impacts from historic automotive repair activities

An environmental condition is considered “de minimis” when that condition generally does not present a threat to human health or the environment and generally would not be the subject of an enforcement action if brought to the attention of appropriate government agencies. Conditions determined to be de minimis are not recognized environment conditions. This assessment has revealed evidence of the following de minimis conditions in connection with the property:

- Potential presence of lead based paint and ACMs
- Potential presence of PCBs in fluorescent lights
- Potential presence of elevated levels of radon

ESI's conclusions and recommendations (in **bold**) regarding any RECs and any other potential environmental liabilities associated with the property are presented below. Cost estimates for any proposed investigations and/or remedial actions are provided in *italics* where appropriate.

1. Information obtained during the review of historic records indicates that the subject property has been developed since at least 1887 with both commercial and residential uses. The property currently contains a single large commercial building and paved area. The potential exists that debris from the demolition of former on-site structures may be present in the subsurface. Such debris may contain asbestos, lead, or other regulated materials.

**No further investigation of historic records is recommended. Any future development activities at the property should be conducted with an awareness of the potential presence of subsurface debris and provision should be made for the proper management of any materials that warrant special handling.**

Sanborn maps indicate the presence of automotive repair facilities from as early as 1913 to some time prior to 1984. Repair activities have included vulcanization of tires, painting, machining, and a 1000-gallon gasoline UST was noted on the property near Catharine Street on the 1913 map. It is possible that the tank was used by a taxi repair facility noted in the structure on the 1950 map. There is a reasonable possibility of impacts to on-site soil and groundwater resulting from these historic activities. These findings support the conclusion that releases of petroleum, solvents, or other materials from historic site activities may have impacted subject property soils and/or groundwater.

**It is recommended that a ground penetrating radar (GPR) survey be conducted on the subject property in the vicinity of Catherine Street to document the presence or absence of subsurface tanks. Borings should be extended in the vicinity of the suspect tank, and in nearby areas likely to be have been impacted by historic automotive repair activities.**

*Estimated cost of GPR investigation: \$1,500*

*Estimated cost of subsurface investigation: \$ 3,500 - \$4,500*



Site observations reveal two sealed fill ports in the building loading dock. These tanks were sealed and filled with sand in 1997. ESI personnel did not view any documentation upon these tanks. The potential exists that these tanks may have impacted the subject property soils and/or groundwater.

**Consideration should be given to the extension of soil borings into this area to document the presence or absence of petroleum contamination.**

2. The subject property was not identified during the review of regulatory agency records conducted by this office. No adjoining or nearby properties were identified that are likely to impact the environmental integrity of the subject property.

**No further investigation of regulatory records is recommended.**

3. A 400-gallon diesel aboveground storage tank is located to the north of the portion of the building adjacent to Catherine Street. This tank appeared to be in sound condition and no evidence of a release or an impending threat of a release was observed during the site inspection. Future releases from this tank, however, could impact the subject property. The subject property is not required to be registered with the NYSDEC as a PBS facility.

**It is recommended that all PBS tanks be periodically inspected and managed in accordance with applicable state and local regulations.**

4. Asbestos-containing materials and lead-based paint could potentially be present on the subject property. Suspect boiler insulation (cracked), vinyl floor tiles and dropped acoustic ceiling tiles (good condition), were noted during the site inspection. Other building construction materials not readily observable during the site inspection (e.g., mastics) could also potentially contain

**No further investigation is recommended. Any suspect material encountered during maintenance, renovation, or demolition activities should be tested for asbestos or lead, or, in the absence of analytical data, be treated as though it contained asbestos or lead. All maintenance, renovation, or demolition activities should be conducted in accordance with applicable regulations.**

5. Florescent light fixtures are present throughout the on-site structure which may be installed prior to 1979. The ballasts of these fixtures are a potential source of PCBs. According to the EPA, ballasts manufactured between 1979 and 1998 that do not contain PCBs should be labeled "No PCBs". If ballasts are not labeled "No PCBs", it is best to assume it contains PCBs.

**Any suspect material encountered during maintenance, renovation, or demolition activities should be tested for PCBs, or, in the absence of analytical data, be treated as though it contained PCBs. All maintenance, renovation, or demolition activities should be conducted in accordance with applicable regulations.**

6. Elevated concentrations of radon may be present at the subject property.

**Radon levels would likely be the greatest in the basement and on the first floor. These two areas are not continuously occupied, with the exception of employees of the commercial tenants. Determination of risk based on OSHA guidance is beyond the scope of this Phase I ESA.**

## 5.0 SOURCES OF INFORMATION

### 5.1 Maps and Documents

Environmental Data Resources, Inc. Report, June 5, 2013.

New York State Department of Environmental Conservation, Freshwater Wetlands Map of the Poughkeepsie, New York Quadrangle, accessed online June 7, 2013 via Environmental Resource Mapper at [www.dec.ny.gov](http://www.dec.ny.gov).

Sanborn Fire Insurance Company Maps dated 1887, 1895, 1913, 1950, 1952, 1984, and 1990.

United States Department of Agriculture, Natural Resources Conservation Service, Soil Survey for Dutchess County, New York, dated 2002.

United States Department of the Interior National Wetlands Inventory Map of the Poughkeepsie, New York, Quadrangle, dated accessed online June 7, 2013 via [www.fws.gov/wetlands/Data/Mapper.html](http://www.fws.gov/wetlands/Data/Mapper.html).

United States Geological Survey Topographic Map of the Poughkeepsie, New York Quadrangle, dated 1995 digital image provided by MyTopo.com.

University of the State of New York, Geologic Map of New York, Fisher, *et al.*, editors (dated 1970, reprinted 1995) and Surficial Geologic Map of New York, D. Cadwell, editor (dated 1989), Lower Hudson Sheets.

### 5.2 Local Agency Records

City of Poughkeepsie Assessor's Office records, reviewed June 6, 2013.

City of Poughkeepsie Building Department records, reviewed June 6, 2013.

### 5.3 Communications

Tanya Clark, representing Dutchess County Health Department: Environmental Health Services, June 10, 2013

Karen O. Lewis, representing City of Poughkeepsie Fire Department, June 10, 2013.

Ashok Babu Mandava, representing Indotronix International Corporation, June 6, 2013.



## 6.0 Environmental Professional Statement

The following statements are required by 40 CFR 312.21(d) of the environmental professional(s) responsible for conducting and preparing the Phase I Environmental Site Assessment report.

**I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312.**

*and*

**I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.**



---

Paul H. Ciminello  
President, Ecosystems Strategies, Inc.



---

Richard Hooker  
Project Manager, Ecosystems Strategies, Inc.

**PHASE I  
ENVIRONMENTAL SITE ASSESSMENT**

**Property Location:**

Emery & Webb, Inc./The Stearns Agency  
327-329 Main Street  
Poughkeepsie, NY 12601

**Prepared for:**

Nancy Walker

**Prepared by:**

John R. Bien, P.E.  
388 Nine Partners Road  
Clinton Corners, NY 12514  
(845) 266-0008

December 1, 2005

  
12-1-05

John R. Bien, P.E.  
388 Nine Partners Road  
Clinton Corners, NY 12514  
Tel: (845) 266-0008

December 1, 2005

Nancy Walker  
28 Regency Drive  
Poughkeepsie, New York 12603  
(845) 486-8065 H  
(845) 629-4269 C

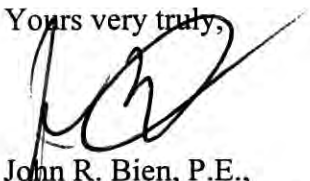
**Re: Phase I Environmental Site Assessment Report**

I am pleased to submit my report describing the findings of the Phase I Environmental Site Assessment of Emery & Webb/The Stearns Agency. This assessment was prepared in general accordance with the American Society of Testing and Materials (ASTM) Standard Practices for Environmental Site Assessments: Phase I ESA Process (ASTM Designation: E1527-2000).

The purpose of the Phase I ESA was to gather sufficient information to render an independent professional opinion about the environmental condition of the property. This assessment included a site reconnaissance as well as research and interviews with representatives of the public, and regulatory agencies.

If you have any questions or require further clarification of the report findings, please contact the undersigned at your convenience. Thank you for the opportunity to be of service to you.

Yours very truly,



John R. Bien, P.E.,  
License Number 067824

## TABLE OF CONTENTS

TABLE OF CONTENTS.....	3
EXECUTIVE SUMMARY.....	6
1.0 INTRODUCTION.....	7
1.1 Purpose.....	7
1.2 Scope of Services.....	7
1.3 Significant Assumptions.....	7
1.4 Limitations and Exceptions .....	7
1.5 User Reliance.....	8
2.0 SITE DESCRIPTION .....	8
2.1 Location and Legal Description .....	8
2.2 Current Property Use.....	9
2.3 Structures and Improvements .....	9
2.4 Adjoining Property Use.....	9
3.0 USER PROVIDED INFORMATION .....	9
3.1 Title Records .....	9
3.2 Environmental Liens or Activity and Use Limitations.....	10
3.3 Specialized Knowledge .....	10
3.4 Owner, Property Manager and Occupant .....	10
3.5 Reason for Performing Phase 1 ESA.....	10
3.6 Prior Environmental Reports .....	10
3.7 Other.....	10
4.0 RECORDS REVIEW.....	11
4.1 Historical Use Information .....	10
4.1.1 City Directories .....	11
4.1.2 Aerial Photographs.....	11
4.1.3 Fire Insurance Maps.....	11
4.1.4 Additional Historical Use Sources .....	12
4.1.5 Historical Use of Adjoining Properties .....	12
4.2 Standard Environmental Records .....	12
4.2.1 Federal Environmental Records .....	13
4.2.2 State Environmental Records .....	14
4.2.3 Local Environmental Records.....	16
4.3 Physical Setting .....	16
4.3.1 Topography .....	16
4.3.2 Regional Geography.....	17
4.3.3 Soil Survey .....	17
4.3.4 Hydrogeology.....	17
4.3.5 Flood Zone Information .....	17
4.3.6 Wetland Information .....	17
4.3.7 Other.....	18
5.0 SITE RECONNAISSANCE .....	18
5.1 General Property Conditions .....	18
5.1.1 Building Heating and Cooling .....	18

5.1.2 Solid Waste Disposal .....	18
5.1.3 Process Wastewater Disposal.....	18
5.1.4 Sewage Discharge .....	19
5.1.5 Surface Water Drainage .....	19
5.1.6 Wells and Cisterns.....	19
5.1.7 Additional Property Conditions.....	19
5.2 Environmental Conditions.....	19
5.2.1 Hazardous Material Storage, Use and Handling .....	19
5.2.2 Spill and Stain Areas.....	19
5.2.3 Polychlorinated Biphenyls (PCBs) .....	20
5.2.4 Asbestos Containing Materials (ACMs) .....	20
5.2.5 Aboveground Storage Tanks (ASTs) .....	20
5.2.6 Underground Storage Tanks (USTs).....	21
5.2.7 Landfills .....	21
5.2.8 Pits, Sumps, Catch Basins and Lagoons .....	21
5.2.9 Radon .....	21
5.2.10 Lead .....	22
5.2.11 Other Environmental Conditions .....	22
6.0 INTERVIEWS.....	22
7.0 FINDINGS AND CONCLUSIONS .....	22
7.1 On-Site Environmental Concerns.....	22
7.2 Off-Site Environmental Concerns .....	22
7.3 Conclusions .....	23
8.0 RECOMMENDATIONS.....	23
9.0 CLOSURE .....	23
10.0 REFERENCES .....	24

This Page Is Intentionally Blank

## EXECUTIVE SUMMARY

Nancy Walker has asked the writer, John R. Bien, P.E. to conduct a Phase I Environmental Site Assessment (ESA) of the property Emery & Web/The Stearns Agency located at 327-329 Main Street, Poughkeepsie, N.Y. 12601, subsequently referred to in this report as "the subject property". This assessment was prepared in general accordance with the American Society of Testing and Materials (ASTM) Standard Practices for Environmental Site Assessments: Phase I ESA Process (ASTM Designation: E1528-2000).

The purpose of the Phase I ESA was to identify any potential sources of environmental risk or liability on the subject property. This assessment included a site reconnaissance as well as research and interviews with representatives of the public and regulatory agencies.

The subject property consists of commercial office space. Zoning of the subject property is C2 (commercial). The subject property is currently used for:

- Office Space ( Insurance Agency )

The following buildings and structures are located on the subject property:

<b>Age</b>	<b>No. of Stories</b>	<b>Usage</b>	<b>Construction</b>
Unknown	4	Office Space	Brick Building

Based on the information gathered and on observations made during this investigation, the Phase I Environmental Site Assessment has revealed no on-site environmental conditions associated with the subject property.

Based on the information gathered and on observations made during this investigation, the Phase I Environmental Site Assessment has revealed no evidence of any off-site environmental conditions associated with the subject property.

A Phase I Environmental Site Assessment in conformance with the scope of work and ASTM Practice E 1528-2000 was performed on the subject property. This assessment revealed no evidence of any recognized environmental conditions associated with the subject property.

Based on the results of the Phase I Environmental Site Assessment of the subject property, no further investigation is recommended at this time.

## **1.0 INTRODUCTION**

Nancy Walker has asked the writer John R. Bien, P.E. to conduct a Phase I Environmental Site Assessment (ESA) of the property Emery &Web/The Stearns Agency located at 327-329 Main Street, Poughkeepsie, NY 12601 subsequently referred to in this report as "the subject property". This assessment was prepared in general accordance with the American Society of Testing and Materials (ASTM) Standard Practices for Environmental Site Assessments: Phase I ESA Process (ASTM Designation: E1528-2000).

### **1.1 Purpose**

The purpose of the Phase I ESA was to identify any potential sources of environmental risk or liability on the subject property. This assessment included a site reconnaissance as well as research and interviews with representatives of the public and regulatory agencies.

### **1.2 Scope of Services**

The scope of work for this assessment was in general accordance with the American Society of Testing and Materials (ASTM) Standard Practices for Environmental Site Assessments: Phase I ESA Process (ASTM Designation: E1528-2000). These methodologies are described as representing good commercial and customary practice for conducting an ESA of a property for the purpose of identifying recognized environmental conditions.

### **1.3 Significant Assumptions**

While this report provides an overview of potential environmental concerns, both past and present, the environmental assessment is limited by the availability of information at the time of the assessment. It is possible that unreported disposal of waste or illegal activities impairing the environmental status of the property may have occurred which could not be identified. The conclusions and recommendations regarding environmental conditions that are presented in this report are based on a scope of work authorized by the Client. Note, however, that virtually no scope of work, no matter how exhaustive, can identify all contaminants or all conditions above and below ground.

### **1.4 Limitations and Exceptions**

The report has been prepared in accordance with generally accepted environmental methodologies referred to in ASTM 1528-2000, and contains all of the limitations inherent in these methodologies. No other warranties, expressed or implied, are made as



to the professional services provided under the terms of our contract and included in this report.

The conclusions of this report are based in part, on the information provided by others. The possibility remains that unexpected environmental conditions may be encountered at the site in locations not specifically investigated. Should such an event occur, I must be notified in order that I may determine if modifications to my conclusions are necessary.

The services performed and outlined in this report were based, in part, upon visual observations of the site and attendant structures. My opinion cannot be extended to portions of the site that were unavailable for direct observation, reasonably beyond the control of the writer.

The objective of this report was to assess environmental conditions at the site, within the context of our contract and existing environmental regulations within the applicable jurisdiction. Evaluating compliance of past or future owners with applicable local, state and federal government laws and regulations was not included in my contract for services.

My observations relating to the condition of environmental media at the site are described in this report. It should be noted that compounds or materials other than those described could be present in the site environment.

### **1.5 User Reliance**

This report may be distributed and relied upon by Nancy Walker, her successors and assignees. Reliance on the information and conclusions in this report by any other person or entity is not authorized without the written consent of the writer.

## **2.0 SITE DESCRIPTION**

### **2.1 Location and Legal Description**

The subject property is located at 327-329 Main Street, Poughkeepsie, N.Y. 12601 and consists of office space in a 4-story brick building.

The property is approximately 0.1 acres in size and rectangular in shape.

The tax map numbers of the subject properties are 6162-77-113078 and 6162-77-111078.

The area is zoned as C2 (commercial). The general area of the property is used for mixed commercial and residential.

## 2.2 Current Property Use

The subject property is currently used for:

- Office Space ( Insurance Agency )

## 2.3 Structures and Improvements

The following buildings and structures are located on the subject property:

Age	No. of Stories	Usage	Construction
Unknown	4	Office Space	Brick Building

## 2.4 Adjoining Property Use

The current adjoining property uses are:

**North:** Parking Lot

**South:** Office Space ( LA International, TAP Communications )

**East:** Office Space ( Chocovision, Indotronix, Community Center )

**West:** Office Space ( Jerard Hankin )

The following recognized environmental concerns (RECs) were noted from a visual inspection of the adjoining properties:

**North:** None

**South:** None

**East:** None

**West:** None

## 3.0 USER PROVIDED INFORMATION

### 3.1 Title Records

A review of the chain-of-title information was not part of the scope of work for this assessment.

### **3.2 Environmental Liens or Activity and Use Limitations**

No environmental liens were reported by the owners.

### **3.3 Specialized Knowledge**

No specialized knowledge of Recognized Environmental Conditions (RECs), or Historical Recognized Environmental Conditions (HRECs) or other potential environmental concerns were reported by the owners.

No property valuation reduction relating to environmental concerns was reported by the owners.

### **3.4 Owner, Property Manager and Occupant**

The subject property is currently owned by Emery Webb/The Stearns Agency and is currently occupied by them. Robert J. Stearns, III was identified as the Key Site Manager of the property.

### **3.5 Reason for Performing Phase 1 ESA**

The Phase 1 ESA was prepared by the writer at the request of Client. This Phase 1 ESA was requested for the following reasons:

- Assisting in the obtaining a mortgage on the subject property.

### **3.6 Prior Environmental Reports**

The following prior environmental reports were identified for the subject property:

- Site Assessment Report, dated 1986.

### **3.7 Other**

No other environmental information was provided by the owners.

## 4.0 RECORDS REVIEW

### 4.1 Historical Use Information

Historical use formation describing the subject property was obtained from a variety of sources as discussed below. This information is summarized below:

<b>Date</b>	<b>Land Use Source of Information</b>
1986	Zimmer Brothers ( Jewelry Store )
1987	Emery & Web, Inc./The Stearns Agency ( Insurance Company )

#### 4.1.1 City Directories

City directories have been produced for most urban and some rural areas since the late 1800s. These directories are often archived in research and municipal libraries. The directories are generally not comprehensive and may contain gaps in time periods. Historical city directories at the Dutchess County Historical Society were reviewed at the Clinton House for indications of previous use of the subject property. Where available city directories were reviewed in a minimum five year increment to determine historical property use of the subject and adjoining properties. The findings of this review are presented below.

<b>Year</b>	<b>Location/Use</b>
1986	Zimmer Brothers ( Jewelry Store )
2000	Emery & Web Inc./The Stearns Agency ( Insurance Agency )

#### 4.1.2 Aerial Photographs

Historical aerial photographs dating back to the 1930s are often available from local and federal government sources. Aerial photographs of the subject and adjoining properties were reviewed for indications of previous uses. The results of this review are summarized below.

<b>Year</b>	<b>Scale</b>	<b>Description</b>
1986	1:400	Retail Space
2000	1:400	Office Space

#### 4.1.3 Fire Insurance Maps

Fire insurance maps are used to determine fire hazards and were produced for most urban areas since the late 1800s. A review of the Sanborn Fire Insurance Map database ( reel 75, #6192 ) indicated that there was no fire hazards for the subject property.

#### **4.1.4 Additional Historical Use Sources**

No additional historical use sources were identified.

#### **4.1.5 Historical Use of Adjoining Properties**

The historical uses of adjoining properties to the subject property are summarized below. These uses were determined using the standard historical sources noted above.

##### **North Historical Land Use**

<b>Date</b>	<b>Land Use</b>
1986	Vacant lot
2000	Vacant lot

##### **South Historical Land Use**

<b>Date</b>	<b>Land Use</b>
1986	Office Space
2000	Office Space

##### **East Historical Land Use**

<b>Date</b>	<b>Land Use</b>
1986	Office Space
2000	Office Space

##### **West Historical Land Use**

<b>Date</b>	<b>Land Use</b>
1986	Office Space
2000	Office Space

#### **4.2 Standard Environmental Records**

A search of available federal and state environmental records was obtained from FirstSearch Technology Corporation (FirstSearch) of Indianapolis, Indiana. The provided search reports meets or exceeds the regulatory records search requirements of ASTM E1528-2000.

Due to discrepancies in the location of some facilities in the databases arising from incorrect or incomplete addresses some facilities may be listed as un-mappable. No un-

mappable facilities were observed to be within the ASTM minimum search distance of the subject property.

A review of the regulatory information from this database search for possible recognized environmental conditions (RECs) within the ASTM minimum search distance is provided in the Federal and State sections below.

#### **4.2.1 Federal Environmental Records**

##### **National Priorities List**

The federal Environmental Protection Agency (EPA) maintains the National Priorities List of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under the Superfund Program.

A review of the NPL List indicates that there are no NPL facilities on the subject property.

A review of the NPL List indicates that there are no NPL facilities on the adjoining properties within the minimum search distance.

##### **CERCLIS List**

The Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) list is maintained by the EPA and contains sites that have been investigated or are currently being investigated for possible inclusion on the NPL.

A review of the CERCLIS List indicates that there are no CERCLIS facilities on the subject property.

A review of the CERCLIS List indicates that there are no CERCLIS facilities on the adjoining properties within the minimum search distance.

##### **RCRA CORRACTS TSD Facilities List**

The EPA maintains a database of the Treatment, Storage and Disposal (TSD) of hazardous waste from reporting facilities under the Resource Conservation and Recovery Act (RCRA). The CORRACTS database is the EPA's list of TSD facilities subject to corrective action.

A review of the RCRA CORRACTS TSD List indicates that there are no RCRA CORRACTS TSD facilities on the subject property.

A review of the RCRA CORRACTS TSD List indicates that there are no RCRA CORRACTS TSD facilities on the adjoining properties within the minimum search distance.

#### **RCRA Non-CORRACTS TSD Facilities List**

The Non-CORRACTS database is the EPA's list of TSD facilities that are not currently subject to corrective action.

A review of the RCRA TSD List indicates that there are no RCRA TSD facilities on the subject property.

A review of the RCRA TSD List indicates that there are no RCRA TSD facilities on the adjoining properties within the minimum search distance.

#### **RCRA Generator List**

The EPA maintains a list of all regulated generators of hazardous waste as defined by RCRA.

A review of the RCRA Generator List indicates that there are no RCRA Generator facilities on the subject property.

A review of the RCRA Generator List indicates that there are no RCRA Generator facilities on the adjoining properties within the minimum search distance.

#### **ERNS List**

The Emergency Response Notification System (ERNS) is a national database used to collect information on reported release of oil or hazardous substances.

A review of the ERNS List indicates that there are no ERNS sites on the subject property.

A review of the ERNS List indicates that there are no ERNS sites on the adjoining properties within the minimum search distance.

### **4.2.2 State Environmental Records**

#### **State Priorities List**



The State Priority List (SPL) contains sites that have been ranked to receive funding for remedial actions and/or investigation under the Hazardous Substance Remedial Action Trust Fund.

A review of the SPL List indicates that there are no SPL facilities on the subject property.

A review of the SPL List indicates that there are no SPL facilities on the adjoining properties within the minimum search distance.

### **CERCLIS List**

The state maintains a list of facilities that are considered state-equivalent CERCLIS sites. A review of the state CERCLIS List indicates that there are no state CERCLIS facilities on the subject property.

A review of the state CERCLIS List indicates that there are no state CERCLIS facilities on the adjoining properties within the minimum search distance.

### **SWLF List**

Each state maintains a list of facilities permitted as solid waste landfills, incinerators or transfer stations.

A review of the SWLF List indicates that there are no SWLFs on the subject property.

A review of the SWLF List indicates that there are no SWLFs on the adjoining properties within the minimum search distance.

### **LUST List**

A list of reported leaking underground storage tanks (LUST) is maintained by each state.

A review of the state LUST List indicates that there are no LUSTs on the subject property.

A review of the state LUST List indicates that there are no LUSTs on the adjoining properties within the minimum search distance.

### **UST List**

The state maintains a list of registered underground storage tanks.



A review of the state UST List indicates that there are no USTs on the subject property.

A review of the state UST List indicates that there are no USTs on the adjoining properties within the minimum search distance.

#### **4.2.3 Local Environmental Records**

##### **County Recorder**

The county recorder/assessor's office was contacted regarding the presence of recorded environmental liens or easements for the subject property.

No environmental liens or easements were recorded for the subject property.

##### **Fire Department**

Fire department records were reviewed to determine the presence of USTs or hazardous materials.

Records from the Fire Department did not indicate the presence of USTs and/or hazardous materials on the subject property.

##### **Building Department**

Building department records were reviewed to determine the history of development and presence of USTs on the subject property.

No records of the developmental history or presence of any USTs on the subject property were found at the Building Department.

##### **Other Agencies**

No records were reviewed from other agencies.

#### **4.3 Physical Setting**

##### **4.3.1 Topography**

The United States Geological Survey (USGS) Poughkeepsie 7.5 minute series topographic map was reviewed. According to this map the average elevation of the subject property is approximately 200 feet above sea level with no slope.

The Hudson River is approximately 1 mile to the West. Academy Street is approximately 100 feet to the East, Route 44/55 West borders the North side, and Main Street borders the South side.

#### **4.3.2 Regional Geography**

The subject property is located in the City of Poughkeepsie, County of Dutchess, New York State. Regional geography in this area is described as urban.

#### **4.3.3 Soil Survey**

The United States Department of Agriculture (USDA) Soil Survey map indicates the property soils consist of Urban Land Complex. This can be described as urban fill underlain by silty clay till or a Dutchess-Cardigan soil type both of which are over bedrock.

#### **4.3.4 Hydrogeology**

Based upon a review of local topography and physiographic information, groundwater is estimated to be 200 feet.

The nearest surface water to the subject property is the Hudson River, which is approximately 1 mile west from the subject property.

#### **4.3.5 Flood Zone Information**

The Federal Emergency Management Agency (FEMA) Flood Insurance Map 3602220000 dated January 5, 1984 was reviewed. According to this map the subject property is not located within a hundred year flood zone.

#### **4.3.6 Wetland Information**

The New York State Department of Environmental Conservation Wetland Maps were reviewed to determine if the subject property contained any identified wetland areas. According to these maps the subject property does not contain any identified wetland areas.

#### **4.3.7 Other**

No other physical setting data was reviewed.

### **5.0 SITE RECONNAISSANCE**

The subject property was inspected by John Bien, P.E. on November 19, 2005. John Bien was accompanied by Robert Stearns, III, Vice President of Emery & Web, Inc. during the inspection. The weather during the inspection was sunny with a light wind from the east.

All areas of the subject property were accessible at the time of the inspection.

There were no visual or physical obstructions of the subject property.

During the inspection an exterior and interior walk-through of the buildings, was performed.

The exterior of adjoining properties was visually evaluated for any recognized environmental concerns (RECs).

### **5.1 General Property Conditions**

#### **5.1.1 Building Heating and Cooling**

The buildings on the subject property are heated by natural gas.

Both buildings are air-conditioned on the subject property.

#### **5.1.2 Solid Waste Disposal**

Non-hazardous solid waste is collect in a dumpster located behind the north side of the buildings. The solid waste is collected and disposed of by a independent trash hauler.

#### **5.1.3 Process Wastewater Disposal**

Process wastewater is not generated at the subject property.

#### **5.1.4 Sewage Discharge**

Sanitary sewage is discharged into Sanitary water from the subject property is discharged into the municipal sanitary sewer system.

#### **5.1.5 Surface Water Drainage**

Storm water appears to run off the property on to Main Street.

#### **5.1.6 Wells and Cisterns**

No wells were observed on the subject property.

There are no cisterns located on the subject property.

#### **5.1.7 Additional Property Conditions**

No additional property conditions were observed.

### **5.2 Environmental Conditions**

#### **5.2.1 Hazardous Material Storage, Use and Handling**

No hazardous materials were observed to be stored or used on the subject property.

No petroleum products were observed to be stored or used on the subject property.

No drums of regulated substances were observed on the subject property.

No containers of regulated substances were observed on the subject property.

No hazardous waste was observed to be generated, stored or disposed at the subject property.

No bio-hazardous waste was observed on the subject property.

#### **5.2.2 Spill and Stain Areas**

No areas of stained soil greater were observed on the subject property.

No areas of stressed vegetation were observed on the subject property.

### **5.2.3 Polychlorinated Biphenyls (PCBs)**

The past use of PCBs in electrical equipment such as transformers, fluorescent lamp ballasts, and capacitors was common. PCBs in electrical equipment are controlled by United States EPA regulation 40 CFR, Part 761. According to this regulation there are three categories for classifying electrical equipment; less than 50 ppm of PCBs is considered "Non-PCB"; between 50 and 500 ppm is considered "PCB-Contaminated"; and greater than 500 ppm is considered "PCB".

Based on the age of the buildings on the property it is possible that PCB containing equipment is present.

Below is a list of the equipment that may contain PCBs.

- Light fixtures located inside the building were a mixture of incandescent and fluorescent.

No indications of leakage such as staining or discoloration was observed near any transformers in the vicinity of the building.

### **5.2.4 Asbestos Containing Materials (ACMs)**

The common use of potential friable asbestos-containing materials (ACMs) (pipe/boiler insulation and fireproofing) in construction generally ceased voluntarily in the mid-1970s.

The buildings pipe/boiler insulation and fireproofing on the subject property was re-constructed in 1986. A cursory review did not find any ACM's present. An asbestos evaluation was not required as per the scope of work.

### **5.2.5 Aboveground Storage Tanks (ASTs)**

Determining the presence of ASTs is considered essential in assessing potential contamination sources. Visual inspection and the review of tank registration records are used to determine the possible existence of past and present ASTs in the area of the subject property. It must be noted however, that the absence of certain site conditions or lack of records may restrict or prevent the determination of the number and contents of ASTs on the subject property.

Aboveground storage tanks that may contain hazardous chemicals or fuel were not observed on the subject property.

### **5.2.6 Underground Storage Tanks (USTs)**

Determining the presence of USTs is considered essential in assessing potential contamination sources. Visual inspection and the review of tank registration records are used to determine the possible existence of past and present USTs in the area of the subject property. It must be noted however, that the absence of certain site conditions or lack of records may restrict or prevent the determination of the number and contents of USTs on the subject property.

Underground storage tanks that may contain hazardous chemicals or fuel were not observed on the subject property.

### **5.2.7 Landfills**

No evidence of a landfill was observed or reported on the subject property.

There is no evidence of dumping activity on the subject property.

### **5.2.8 Pits, Sumps, Catch Basins and Lagoons**

No pits, ponds, or lagoons were observed on the subject property.

No sumps or catch basins, other than those used for storm water, were observed on the subject property.

### **5.2.9 Radon**

Radon is an odorless, invisible gas that occurs naturally in soils. Natural radon levels vary and are closely related to geologic formations. It cannot be detected without specialized equipment. Radon may enter buildings through basement sumps or other openings.

The EPA has established the recommended safe radon level at 4 pCi/L. The EPA has prepared a map dividing the country into three Radon Zones; Zone 1 for those areas with the average predicted indoor radon concentration in residential dwellings exceeding the EPA Action limit of 4 pCi/L; Zone 2 for those areas where the average predicted radon level is between 2 and 4 pCi/L; and Zone 3 for those areas where the average predicted radon level is below 2 pCi/L.

According to the EPA Map of Radon Zones the subject property is in Zone 2 where the predicted radon levels are between 2.0 and 4.0 pCi/L.

### **5.2.10 Lead**

Based on the age of construction of the structures it is likely that lead based paint was used and has been top coated with non-lead based paints.

### **5.2.11 Other Environmental Conditions**

No high-tension transmission lines or electrical substations which could generate significant electromagnetic frequencies were identified near the subject property.

There were no major sources of noise and vibration identified on or near the subject property.

No other information was provided by the owner.

## **6.0 INTERVIEWS**

Interviews were conducted with individuals knowledgeable of the subject property. Information obtained from the interviews appears in the appropriate sections of this report.

The following people were interviewed:

<b>Date</b>	<b>Name</b>	<b>Title</b>	<b>Organization</b>
November 19, 2005	Robert Stearns III	Vice President	Emery & Webb, Inc.

## **7.0 FINDINGS AND CONCLUSIONS**

### **7.1 On-Site Environmental Concerns**

Based on the information gathered and on observations made during this investigation, the Phase I Environmental Site Assessment has revealed no evidence of any on-site environmental conditions associated with the subject property.

### **7.2 Off-Site Environmental Concerns**



Based on the information gathered and on observations made during this investigation, the Phase I Environmental Site Assessment has revealed no evidence of any off-site environmental conditions associated with the subject property.

### **7.3 Conclusions**

A Phase I Environmental Site Assessment in conformance with the scope of work and ASTM Practice E 1528-2000 was performed on the subject property. This assessment revealed no evidence of any recognized environmental conditions associated with the subject property.

### **8.0 RECOMMENDATIONS**

Based on the results of the Phase I Environmental Site Assessment of the subject property, a Phase II Environmental Site Assessment is not recommended at this time.

Based on the results of the Phase I Environmental Site Assessment of the subject property, an Asbestos Containing Materials survey is not recommended at this time.

### **9.0 CLOSURE**

This report has been prepared for the sole benefit of Nancy Walker. The report may not be relied upon by any other person or entity without the express written consent of John Bien, P.E.

This Phase I ESA complies with the scope of work and ASTM Standard 1528-2000.

Respectfully submitted,



John R. Bien, P.E.  
Civil and Environmental Engineer  
License Number 067824



## **10.0 REFERENCES**

The following documents, maps, or other publications may have been used in the preparation of this report.

American Society for Testing and Materials (ASTM) 2000. Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM E 1528-00). Philadelphia, PA, USA.

Environmental Data Resources, Inc., Radius Map and Site Assessment Reports.

Federal Emergency Management Agency, National Flood Insurance Program, Flood Insurance Maps.

United States Department of Agriculture, Soil Conservation Service, Soil Surveys.

United States Geological Survey, Topographic Maps.

United States Department of the Interior, Fish and Wildlife Service, National Wetlands Inventory Map

**Legend**

Phase 2 SI Sample Locations

- Soil Boring Location
- Soil Boring & Temporary Well Location



LOADING DOCK

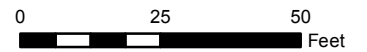
4-STORY BUILDING

AOC 1  
FORMER AUTO REPAIR FACILITY

AOC 2  
1,000 GALLON UST

3-STORY BUILDING

CATHERINE STREET



DATE: AUG 2013  
PROJECT NO:  
FILE NO: Fig2\_SiteFeatures\_Indotronic.mxd

DANIEL G. LOUCKS, P.E.  
G E O T E C H N I C A L   E N G I N E E R I N G

Geotechnical Report  
For  
Wallace Campus Buildings  
Catherine & Main Street, Poughkeepsie, NY

File No. 3691

Prepared For:

Wallace Partners LLC



8 September 2020

## **INTRODUCTION:**

The subsurface investigation for the proposed Wallace Campus Buildings, Poughkeepsie, New York has been completed. Allied Drilling Inc of Sparkill, New York has completed nine (9) soil borings at the site. In addition to the soil borings three (3) test pits were excavated at the site. The logs of these borings and test pits, along with a location diagram, have been included in the appendix of this report.

It is my understanding that the proposed construction will include an eight-story building a basement adjacent to Main Street and a 6 to 8 story building adjacent to the Catherine Street side of the site. The buildings will have an upper steel frame over a lower reinforced concrete bearing-wall design.

I have estimated that the maximum column loadings will range from 450 to 500 kips for the eight story building and approximately 300 to 350 for a six story building. When the final design has been completed, I should be notified if these assumed loadings are correct. The settlement tolerances are normal. Settlement tolerances are considered to include up to 1 inch of total settlement and 3/4 inch of differential settlement between column locations.

The lower floor slab will be established at 10 feet below the existing grades at the site.

The purpose of this report is to describe the investigation conducted and the results obtained; to analyze and interpret the data obtained; and to make recommendations for the design and construction of the feasible foundation types and earthworks for the project. The recommendations contained in this report are based on the information that was provided up to the date the report was completed. Any changes in the design of the project or changes to the recommendations provided in this report should be brought to my attention to determine if there needs to be any revision of the geotechnical recommendations. I am not responsible for any changes made to the recommendations provided in this report unless I have provided written approval of the changes.

The scope of my services has been limited to coordinating the boring and laboratory investigation, analyzing the soils information, and providing a geotechnical report with foundation

recommendations and seismic site classifications as per NYS Building Code. Environmental aspects of the project as well as grading and site design should be performed by qualified others.

#### **FIELD INVESTIGATION PROCEDURES:**

The borings were extended by means of 4.0 inch ID, hollow-steel casing, by using various cutting bits using circulating drilling fluid to remove the cuttings from the casing and by continuous sampling with a split-spoon sampler.

Representative samples were obtained from the boring holes by means of the split-spoon sampling procedure performed in accordance with ASTM D 1586. The standard penetration values obtained from this procedure have been indicated on the soil boring logs.

Soil samples obtained from these procedures were examined in the field, sealed in containers, and shipped to the laboratory for further examination, classification and testing, as applicable.

Representative samples of the rock materials were obtained by means of the diamond-bit sampling procedure performed in accordance with ASTM D 2113. NQ2-size core barrels were used for this sampling procedure. Rock samples obtained from this procedure were examined in the field, placed in wooden core-sample boxes and shipped to the laboratory for further examination and classification.

During the investigation, water level readings were obtained at various times where water accumulated in the boring hole. The water level readings, along with an indication of the time of the reading relative to the boring procedure, have been indicated on the soil boring logs.

In addition to the field boring investigation, the soil engineer visited the site to observe the surface conditions.

#### **LABORATORY INVESTIGATION:**

All samples were examined in the laboratory by the soil engineer and classified according to the Unified Soil Classification System. In this system, the soils are visually classified according to texture and plasticity. The appropriate group symbol is indicated on the soil boring logs.



Sieve Analyses were performed on representative samples in accordance with ASTM Specification D 422. These tests were performed to verify the visual soil classifications. Results of the tests can be found in the appendix of the report.

#### **SITE CONDITIONS:**

At the time of my site visit the ground surface at the proposed Catherine Street building was fairly level and covered with asphalt pavement and some grass around the perimeter. I understand that there used to be an old market building at this location in the past.

At the proposed building site along Main Street, there are existing 2 to 3 story buildings adjacent to the road and to the north of the buildings is a paved level parking lot area.

#### **SUBSURFACE CONDITIONS:**

The specific subsurface conditions encountered at each boring and test pit location are indicated on the individual soil boring and test pit logs. However, to aid in the evaluation of this data, I have prepared a generalized description of the soil conditions based on the boring and test pit data.

The borings for the Catherine Street building (borings 1 thru 5) encountered an upper layer of fill that extends to between approximately 1 and 7 feet below the existing ground surface. These fill soils consist of sand with varying amounts of gravel and silt and a trace of organics. This material is loose to dense. Beneath the fill are sandy soils with varying amounts of silt and gravel. These virgin soils are loose to dense and extend to the bottom of the shallower borings (B-4 and B-5) at 17 feet, to approximately 13 feet in boring B-3 and to approximately 18 feet in the deeper borings. Below the virgin sand with silt and gravel is a layer of silt with a trace to some fine sand. This silty layer is medium dens to dense and extends to between approximately 23 and 48 feet below the existing ground surface. A layer of clayey silt with occasional thin clay layers was encountered under the silt. These layered soils extended to between approximately 33 and 54 feet below the existing ground surface and are medium dense to dense. A layer

of weathered shale with sand and silt was encountered underlying the clayey silt soils. This very dense layer extended to split spoon refusal on shale bedrock at between 41 and 56 feet below the existing ground surface. A rock core was taken between 57 and 62 feet, in boring B-22. The coring recovered highly fractured shale with an RQD of 0 percent.

Two test pits were attempted to be excavated adjacent to the north side of the building on Catherine Street. Both test pits encountered an upper layer of sand with a trace to some gravel, clayey silt and building debris. These test pits were stopped at between 2 and 3 feet, below the existing ground surface, because utilities were encountered. No test pit was performed on the east side of the adjacent building because of existing utilities.

The borings for the Main Street Building (borings 6 thru 9) also encountered an upper layer of fill that extended to between approximately 5 and 9 feet below the existing ground surface. This fill is comprised of a mixture of sand and gravel with lesser amount of silt, brick and asphalt pavement. Below this fill is a layer of sand with varying amounts of gravel and a trace to some silt. This sandy layer is medium dense to dense and extends to between approximately 17 to 23 feet below the existing ground surface. Underlying the sandy soils is a layer of clayey silt with a trace of fine sand occasional thin clay layers. This layered clayey silt is generally medium dense to dense/soft and it extends to between approximately 27 and 51 feet below the existing ground surface. Beneath this clayey silt is a layer weathered shale and clayey silt. This layer is dense to very dense and extended to split spoon refusal on weathered shale bedrock at the bottom of the borings at between approximately 41 and 62 feet below the existing ground surface.

One test pit was excavated along the western side of the adjacent taller building at approximately the intersection of the building change in height. The test pit encountered an upper layer of fill under the asphalt pavement that extended to the top of the building footing at a depth of 10 feet below the existing ground surface. The footing extended approximately 2 feet out from the foundation wall. The thickness of the footing was not able to be determined because the excavator could not dig deeper.

**GROUNDWATER CONDITIONS:**

Accurate groundwater levels are difficult to determine in clayey silt soils with only short term readings or observations. Clayey silt soils typically do not allow an adequate amount of water to flow through the soil to produce a water level reading during the drilling operation. I have indicated where water was observed on the boring logs.

The drilling procedure requires the use of drilling fluid during the boring process. This makes it difficult to determine ground water levels during the boring investigation.

Based on the groundwater levels observed during the boring investigation, the moisture condition of the samples recovered from the boring holes and coloration of the soil samples, I judge that the groundwater level was located below depth of 15 feet at each building site.

Perched groundwater tables may occur at higher elevations in the soil profile due to groundwater being retained by layers or lenses of silt or clay soils.

Some fluctuation in hydrostatic groundwater levels and perched water conditions should be anticipated with variations in the seasonal rainfall and surface runoff.

It should be noted that the groundwater levels were obtained during the drilling procedure. Actual water levels may vary at the time of construction. Some groundwater could be encountered in soil layers labeled moist to wet on the boring logs.

**ANALYSIS AND RECOMMENDATIONS:**

The borings indicate that the uncontrolled fill extends to between approximately 1 and 9 feet below the existing ground surface. I understand that the proposed basements will extend to at least 10 feet below the existing ground surface. This would extend the new structures through the existing uncontrolled fill soils. Generally medium dense sandy soils with varying amounts of gravel and silt were encountered below the uncontrolled fill and then medium dense to dense silt/clayey silt soils. Split spoon refusal on bedrock was encountered at between



approximately 41 and 62 feet below the existing ground surface. The column loading has been estimated to be between approximately 450 to 500 kips for an eight story building and between 300 and 350 for a six story building. This should be verified. Assuming this loading and a net allowable soil bearing pressure of 2500 psf, I estimate that footings would be approximately 15 feet square for the eight story building and 12 foot square if the building is six stories, but given the existing building and property line constraints, it is likely that the footings will have to be eccentrically loaded and would extend further into the building footprint. If there are and interior columns the spacing between footings could be very small. Because of this and to limit settlements, at this time I recommend that the proposed eight story building(s) be supported on a mat foundation. If the building loads are lower or spacing of possible footings greater, then spread footing foundation could be considered. If one of the buildings is six stories, with the loading that was assumed being correct, then in my opinion the six story building could be designed to rest on spread footing foundations. Both foundations should rest on firm virgin soils or a minimum of 8 inches of controlled uniform crushed stone, over a layer of geotextile that in turn rests on firm virgin soils.

In my opinion this approach would be less expensive than deep foundations such as driven piles or caissons. Also there would be less vibration, than if driven piles were used.

#### *Site Work:*

The proposed construction areas should be cleared and grubbed and all organic topsoil and vegetation along with any uncontrolled fill and debris. The subgrade should be proof-rolled with a 10-ton static roller and the proof rolling should be observed by the soil engineer. This proof rolling will compact the subgrade and reveal the presence of soft spots. If saturated subgrade conditions exist, I recommend that the subgrade be observed and probed by the soil engineer in place of proof rolling. Any soft spots should be excavated and backfilled with controlled fill material.

The removal of any uncontrolled fill should extend to a minimum horizontal distance past the edge of the footings equal to half the depth that the fill extends under the footing. This is equal

to a 1:2 (H:V) slope down from the outer edge of the footing to the virgin soil. All uncontrolled fill within the proposed building area should also be removed.

A way to stabilize a spongy, but suitable, virgin, subgrade would be to spread a reinforcement or separation type of geotextile (Mirafi 600X or approved equal) on the subgrade and follow with a lift of clean, granular fill or uniform crushed stone. The thickness of the controlled fill can range from 1.0 to 2.5 feet, as necessary, to achieve a working mat upon which to construct the remainder of the controlled fill or to place footings. If uniform crushed stone is used as controlled fill a layer of geotextile should be placed between the crushed stone and any sand/gravel controlled fill or virgin soil.

A third method for stabilizing spongy areas of the subgrade would be to improve the drainage by use of properly designed drain tiles or by using properly designed sump pit and pump dewatering systems. Using these methods, the local groundwater table maybe able to be lowered sufficiently to aid in stabilizing the subgrade surface. If large quantities of water are encountered vacuum well point dewatering maybe required. The need of a well point or any other type of dewatering program should be evaluated by the contractor before starting construction and be designed by a qualified dewatering contractor or hydrologist.

#### *Controlled Fill:*

Before any controlled fill is placed the site should be inspected to verify that the site has been prepared according to the recommendations contained in this report as required by the NYS Building Code Section 1704.7.1.

Controlled fill can consist of non-organic, imported soils free of debris and having a maximum particle size of 4 inches. A gradation and proctor should be performed on the proposed soil and submitted to me for approval. Approved, properly placed and compacted material can be used as controlled fill within the proposed building footprint. Free draining controlled fill material should be placed as recommended in this report. Approved on-site or imported soils should not be used in these locations where free draining controlled fill is recommended unless approved by me.

Controlled, relatively clean, granular fill can be spread in lifts not exceeding 12 inches in loose thickness. These materials should be compacted to a minimum of 95 percent of the maximum ASTM Specification D 1557-91 density, modified proctor.

On-site, silty soils, will be difficult to compact during wet weather or poor drying conditions. Given good drying conditions, the on-site soils with more than 10 percent silt/clayey silt may be able to be properly compacted. These types of soils are sensitive to moisture content and weather conditions. During freezing or wet weather conditions these soils should not be used as controlled fill.

If crushed stone is used as controlled fill it should have a layer of geotextile with a minimum tensile strength of 200 lbs should be placed between the stone and existing soils. The stone should be placed in lifts not exceeding 12 inches in thickness and should be compacted with a minimum of 5 passes of a vibratory roller rated at 5 tons or larger. Weathered shale or crushed shale should not be used as controlled fill within the proposed building area.

Free Draining Controlled Fill Material: Naturally or artificially graded mixture of sand, natural or crushed stone or gravel conforming to NYS DOT Item 304.12 or 304.14, Type 2 or 4 as follows:

<u>U.S. Sieve No.</u>	<u>Percent Passing by Weight</u>
2 inch	100
1/4 inch	30-65
No. 40	5-40
No. 200	0-10

NYS DOT Table 703-4, Size 2 crushed stone, clean, durable, angular, and of uniform quality throughout:

<u>U.S. Sieve No.</u>	<u>Percent Passing by Weight</u>
1 ½ inch	100
1 inch	90-100
1/2 inch	0-15

All controlled fill should be free of organic and/or frozen material.

Free-draining controlled fill should have less than 10 percent fines passing the #200 sieve.

I recommend performing one field density test for every 2,000 square feet of controlled fill placed, within the overlaying building footprint, but in no case fewer than three tests per lift.

I recommend that for foundation wall and footing backfill that in each compacted backfill layer have at least one field in place density test for each 50 feet or less of wall or footing length, but not fewer than two tests along a wall face or footing be performed per lift.

Proper placement and compaction of backfill along exterior portions of foundation walls should be provided, especially in locations where there are sidewalks or building entries. Proper placement of backfill materials can reduce possible settlements and the use of properly designed backfill and drainage can reduce possible frost heave movements.

Results of the field compaction test results should be sent to my office for review. Copies of the results of soil gradation tests should also be provided to me for review and approval.

#### *Building Foundations:*

I recommend that the proposed structure be supported by a mat or possibly spread footing foundations resting on firm virgin, inorganic, soils or on controlled fill which, in turn, rests on these virgin materials, Depending on the building loading and column spacing. The mat or footings can be designed for a maximum, net, allowable soil bearing pressure of 2500 psf.

The soil engineer should observe the mat/footing subgrade at the beginning of the project or if soil conditions change to verify the allowable bearing pressure of the soil encountered.

Loads from adjacent footings or structures should be assumed to distribute based on the elastic theory. Typical Boussinesq charts can be used to approximate loads at various depths and locations due to adjacent structures.

A minimum footing width of 2.0 feet is recommended for load bearing strip footings. Isolated footings should be at least 3.0 feet wide.

Exterior footings or footings in unheated areas should have a minimum of 4.0 feet of embedment for protection from frost action. Interior footings should have a minimum embedment of 1.5 ft below final grade to develop the bearing value of the soils.

All walls that retain soil on only one side should have a drain tile placed along the base of the wall. The drain tile should be a minimum of 4 inches in diameter, surrounded by a minimum of 6 inches of properly graded washed sand or crushed stone wrapped with a non-woven filter fabric with a maximum apparent opening size of 70 and a minimum trapezoid tearing strength of 100 lbs. The drain tile should drain to a stormwater sewer, daylight, or a sump equipped with a pump.

The wall should then be backfilled with a controlled, well graded, free-draining granular material. The material should extend away from the wall a horizontal distance of two-thirds the height of the fill being placed. The upper 1 foot of material should be a fairly impermeable material to shed surface water and should be pitched away from the building to provide proper drainage.

If these procedures are used, a static lateral soil pressure of 40 psf per foot of retained soil can be used for design of the wall. This static, active lateral soil pressure is based on a moist unit weight of 125 pcf and an angle of internal friction of 32 degrees. A wall soil friction angle of 18 degrees and a coefficient of base sliding of 0.45 can also be used for design.

If the retaining wall is braced or if the deflection is limited prior to backfilling so the active soil pressure is not achieved, a static, at-rest lateral soil pressure of 63 psf per foot of retained soil can be used for design.

To resist overturning and sliding a static lateral passive pressure of 250 psf per foot of embedment can be used, provided foundations are backfilled with controlled fill. This static, passive pressure resistance value has been reduced from the calculated full passive pressure because of stress/strain characteristics of the soil. To develop the full, calculated resistance a certain amount of movement or deflection in the

structure is required. The amount of movement required to generate this resistance generally greater than is acceptable for structures. I therefore recommend that the full passive pressure not be used.

The passive resistance of the upper two feet of soil, not in floor slab areas, should be ignored due to surface effects of frost and moisture.

Any surcharge loading of existing adjacent building foundations or other adjacent structures/utilities should be addressed by the structural engineer using Boussinesq charts.

#### *Floor Slabs:*

Mat foundations or concrete floor slabs can be designed to rest on controlled fills resting on virgin materials. A 6-inch layer of well-graded, free-draining, granular material should be placed beneath the floor slab to provide drainage, act as a capillary break, and to provide better and more uniform support.

Exterior concrete pavements will experience some frost heave movements during the winter and spring. If these movements are not acceptable then a minimum of 4.0 feet of approved subbase material and properly designed drains would be required below the concrete pavements or sidewalks. The use of properly designed footing drains can also be used to reduce possible frost heave movements adjacent to the proposed structure.

If the moisture levels of floor slab areas are critical additional drainage materials and vapor barriers will be required beneath the floor slab. Also, the moisture content of the subbase soils should be carefully monitored to prevent excess water from saturating these subbase soils before the floor slab is poured. This aspect of the design should be performed by qualified others.

#### *Seismic Conditions:*

The potential seismic conditions at the proposed site have been investigated using the information provided in the NYS Building Code Section 1613, the boring information obtained during my investigation and past experience with soils in the area.

Based on the soil boring information and my experience it is my opinion that the Site Soil Classification (Table 1615.1.1) could be assumed to be D. Using data from Reference Document ASCE41-17, Hazard level BSE-2N, I estimate that the MCE spectral acceleration ( $S_{xs}$ ) at short periods is 31.0 and the MCE spectral acceleration ( $S_{x1}$ ) at 1 s period is 13.1. I have included a copy of the spectral accelerations for other Hazard Levels in the appendix of this report.

The probabilistic ground motion values are expressed in %g for rock site class B. Peak ground accelerations in the upper soil profile may vary. If specific peak ground accelerations or shear wave velocities are required for the upper soil profile additional testing would be required. If it is determined by the structural engineer that the Seismic Design Category is D, E or F additional geotechnical recommendations can be provided.

The soil borings and my analysis do not indicate any significant potential seismic hazards such as liquefaction, sensitive clays, weakly cemented soil or surface rupture.

#### **CONSTRUCTION PROCEDURES AND PROBLEMS:**

The NYS Building Code Section 17 requires special inspections and follow up reports. These inspections should be performed to verify compliance with the recommendations contained in this report.

All excavations of more than a few feet should be sheeted and braced or laid back to prevent sloughing in of the sides.

Excavations should not extend below adjacent footings or structures unless properly designed sheeting and bracing or underpinning is installed.

Mat, footing and floor slab subgrades should be tamped to compact any soil disturbed during the excavation process. A flat plate should be placed on the end of the excavator or backhoe bucket to reduce disturbance of the footing subgrade.

A layer of geotextile (min. tensile strength of 200 lbs) and 8 to 16 inches of crushed stone may be required in footing excavations to prevent disturbance of the virgin subgrade during



wet weather. The stone and fabric should be placed as described in the *Controlled Fill* section of this report.

Sump-pit and sump-pump-type dewatering may be required in excavations or low areas during wet weather or if groundwater is encountered. If large quantities of groundwater are encountered vacuum wells maybe required to stabilize the subgrade soils. All excavations should be dewatered to a minimum of 1 foot below the bottom of the excavation. All dewatering programs should be designed to prevent bottom heave. Any dewatering program should be performed with properly designed filtration protection on all pumps to prevent loss of ground.

As previously noted, the on-site soils contain clayey silt which will make the soils sensitive to moisture content. If the material becomes wet or saturated, it will become spongy and easily disturbed. Imported well draining sand and gravel or possibly crushed stone may be required to prevent disturbance of the subgrade soils during construction.

Temporary paving using coarse fill material or separation/reinforcement geotextile and coarse fill material may be required for moving about the site during wet or thaw weather.

Subgrades should be kept from freezing during construction.

Water, snow, and ice should not be allowed to collect and stand in excavations or low areas of the subgrade.

Some obstacles, including foundations and utilities may be encountered in excavations.

Design and construction procedures should include measures to limit the potential for slab curl and vapor transmission. The shrinkage properties of the concrete should be controlled and the curing of the concrete controlled. Differential shrinkage between the top and bottom of the slabs could otherwise result in curling of the slabs. The control of vapor transmission through the slab should also be addressed. These phenomena may be only indirectly related to soil conditions. The architect/structural engineer should address this aspect of the design.

Current American Concrete Institute recommendations for the design and construction of floor slabs and the control of shrinkage, slab curl and vapor transmission can be referred to.

Wallace Campus Buildings  
Catherine & Main Street, Poughkeepsie, NY  
File No.3691

**CONTENTS OF APPENDIX:**

1. General Notes
2. Boring & Test Pit Location Diagram
3. Boring Logs
4. Test Pit Logs
5. Liquefaction Analysis Results
6. Seismic Settlement Analysis Results
7. Seismic Design Values
8. Laboratory Test Results
9. Unified Soil Classification System
10. Soil Use Chart
11. General Qualifications

# GENERAL NOTES

## DRILLING & SAMPLING SYMBOLS

- SS : Split-Spoon — 1<sup>3/4</sup> " I.D., 2" O.D., except where noted
- S : Shelby Tube — 2" O.D., except where noted
- PA : Power Auger Sample
- DB : Diamond Bit — NX: BX: AX:
- CB : Carboloy Bit — NX: BX: AX:
- OS : Osterberg Sampler — 3" Shelby Tube
- HS : Housel Sampler
- WS : Wash Sample
- FT : Fish Tail
- RB : Rock Bit
- WO : Wash Out

Standard "N" Penetration: Blows per foot of a 140 pound hammer falling 30 inches on a 2 inch OD split spoon, except where noted

## WATER LEVEL MEASUREMENT SYMBOLS

- WL : Water Level
- WCI : Wet Cave In
- DCI : Dry Cave In
- WS : While Sampling
- WD : While Drilling
- BCR : Before Casing Removal
- ACR : After Casing Removal
- AB : After Boring

Water levels indicated on the boring logs are the levels measured in the boring at the times indicated. In pervious soils, the indicated elevations are considered reliable ground water levels. In impervious soils the accurate determination of ground water elevations is not possible in even several day's observation, and additional evidence on ground water elevations must be sought.

## CLASSIFICATION

### COHESIONLESS SOILS

- "Trace" : 1% to 10%
  - "Trace to some" : 10% to 20%
  - "Some" : 20% to 35%
  - "And" : 35% to 50%
  - Loose : 0 to 9 Blows
  - Medium Dense : 10 to 29 Blows
  - Dense : 30 to 59 Blows
  - Very Dense :  $\geq 60$  Blows
- } or equivalent

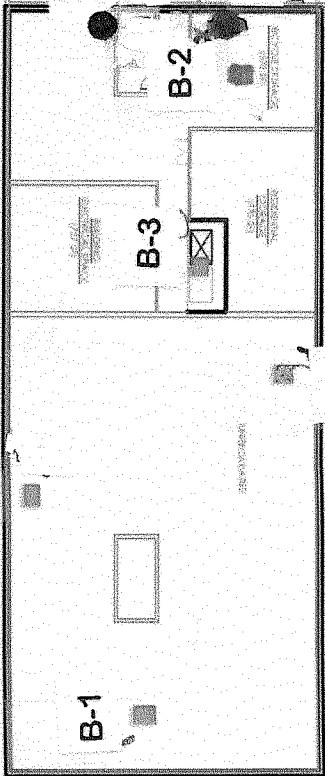
### COHESIVE SOILS

If clay content is sufficient so that clay dominates soil properties, then clay becomes the principle noun with the other major soil constituent as modifiers: i.e., silty clay. Other minor soil constituents may be added according to classification breakdown for cohesionless soils; i.e., silty clay, trace to some sand, trace gravel.

- Soft : 0.00 — 0.59 tons/ft<sup>2</sup>
- Medium : 0.60 — 0.99 tons/ft<sup>2</sup>
- Stiff : 1.00 — 1.99 tons/ft<sup>2</sup>
- Very Stiff : 2.00 — 3.99 tons/ft<sup>2</sup>
- Hard :  $\geq 4.00$  tons/ft<sup>2</sup>

CATHERINE STREET

B-5



B-1

B-3

B-2

TP-1

TP-2

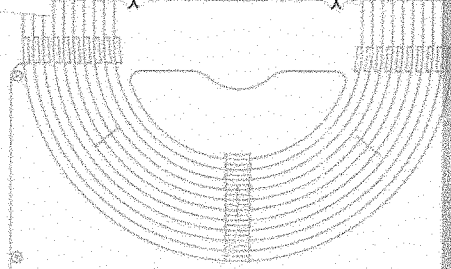
B-4



STORAGE ROOM

TP-3

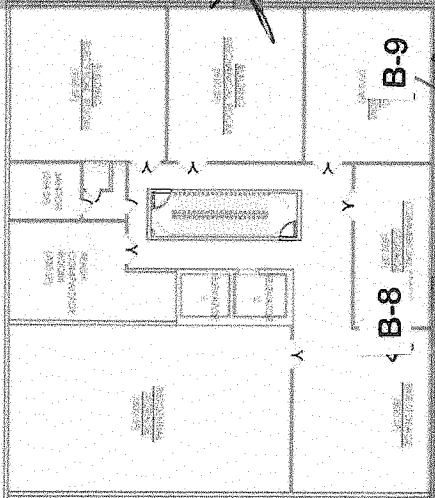
B-6



B-7

B-8

B-9



PROJECT NAME: Wallace Campus

FILE NUMBER: 3691

LOCATION: Poughkeepsie, NY

OFFSET: None

DATE STARTED/COMPLETED: June 2020

SURFACE ELEV.: N/A

ENGINEER/ARCHITECT:

DRILL CONTRACTOR: Allied Drilling, Inc.

DRILLING METHOD: Rotary Wash

DRILL RIG TYPE: Truck

HAMMER WEIGHT: 140 Lbs

DROP: 30 Inches

CASING DIAMETER: OD/ID: 4 inch ID

WATER LEVEL DEPTH: at 16.0 Ft. TIME: WS

Daniel G Loucks PE  
 PO Box 163  
 Ballston Spa, New York 12020  
 Phone: 518-371-7622  
 Fax: 518-383-2069

DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value	Recovery	DESCRIPTION
1	1	SS	7-8-16-8	24		Topsoil
2						Fine to Coarse Sand, some Gravel, Silt, Brown, Moist, Medium Dense, (SM)
3	2	SS	7-8-6-5	14		FILL
4						Fine to Coarse Sand, trace to some Gravel, Silt, trace Organics, Brown, Moist, Medium Dense, (SM)
5	3	SS	3-3-3-5	6		FILL
6						
7	4	SS	9-10-11-15	21		Fine to Coarse Sand, some Gravel, trace to some Silt, Brown, Moist, Medium Dense, (SM)
8						
9	5	SS	12-12-11-12	23		
10						
11	6	SS	9-13-11-10	24		
12						
13	7	SS	7-11-10-13	21		Fine to Coarse Sand and Gravel, trace to some Silt, Brown, Moist to Wet, Medium Dense, (SM-GM)
14						
15		RB				
16	8	SS	10-9-8-10	17		
17						
18		RB				
19						Silt, trace to some Fine Sand, Brown/Gray, Wet, Medium Dense, (ML)
20						
21	9	SS	10-14-14-16	28		
22						
23						
24		RB				
25						
26	10	SS	9-10-9-12	19		
27						

PROJECT NAME: Wallace Campus

FILE NUMBER: 3691

LOCATION: Poughkeepsie, NY

OFFSET: None

DATE STARTED/COMPLETED: June 2020

SURFACE ELEV.: N/A

ENGINEER/ARCHITECT:

DRILL CONTRACTOR: Allied Drilling, Inc.

DRILLING METHOD: Rotary Wash

DRILL RIG TYPE: Truck

HAMMER WEIGHT: 140 Lbs

DROP: 30 Inches

CASING DIAMETER: OD/ID: 4 inch ID

WATER LEVEL DEPTH: at 16.0 Ft. TIME: WS

Daniel G Loucks PE  
 PO Box 163  
 Ballston Spa, New York 12020  
 Phone: 518-371-7622  
 Fax: 518-383-2069

DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value	Recovery	DESCRIPTION
28		RB				Silt, trace to some Fine Sand, Gray, Wet, Medium Dense to Dense, (ML)
29						
30						
31	11	SS	14-18-18-17	36		
32						
33		RB				
34						
35						
36	12	SS	8-11-13-12	24		
37						
38		RB				
39						
40						
41	13	SS	6-8-10-14	18		
42						
43		RB				
44						
45						
46	14	SS	6-8-10-11	18		
47						
48		RB				Clayey Silt, trace to some Clay, trace Fine Sand, Gray, Wet, Medium Dense to Dense, (ML)(CL) Occasional Thin Clay Layers
49						
50						
51	15	SS	5-6-8-11	14		
52						
53		RB				
54						

PROJECT NAME: Wallace Campus  
 LOCATION: Poughkeepsie, NY  
 DATE STARTED/COMPLETED: June 2020  
 ENGINEER/ARCHITECT:  
 DRILLING METHOD: Rotary Wash  
 DRILL RIG TYPE: Truck  
 HAMMER WEIGHT: 140 Lbs  
 DROP: 30 Inches  
 CASING DIAMETER: OD/ID: 4 inch ID  
 WATER LEVEL DEPTH: at 16.0 Ft.      TIME: WS

FILE NUMBER: 3691  
 OFFSET: None  
 SURFACE ELEV.: N/A  
 DRILL CONTRACTOR: Allied Drilling, Inc.

**Daniel G Loucks PE**  
 PO Box 163  
 Ballston Spa, New York 12020  
 Phone: 518-371-7622  
 Fax: 518-383-2069

DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value	Recovery	DESCRIPTION
55	16	SS	78-100/3	100+		Weathered Shale, trace to some Clayey Silt, trace Sand, Gray, Wet, Very Dense, (GM)
56		RB				
57	RUN 1	DB				ROCK CORE Highly Weathered Shale RQD=0
58						
59						
60						
61						
62	End of Boring at 62.0 Ft.					
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						
75						
76						
77						
78						
79						
80						
81						

PROJECT NAME: Wallace Campus

FILE NUMBER: 3691

LOCATION: Poughkeepsie, NY

OFFSET: None

DATE STARTED/COMPLETED: June 2020

SURFACE ELEV.: N/A

ENGINEER/ARCHITECT:

DRILL CONTRACTOR: Allied Drilling, Inc.

DRILLING METHOD: Rotary Wash

DRILL RIG TYPE: Truck

HAMMER WEIGHT: 140 Lbs

DROP: 30 Inches

CASING DIAMETER: OD/ID: 4 inch ID

WATER LEVEL DEPTH: at 17.0 Ft. TIME: WS

Daniel G Loucks PE  
 PO Box 163  
 Ballston Spa, New York 12020  
 Phone: 518-371-7622  
 Fax: 518-383-2069

DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value	Recovery	DESCRIPTION
1						Asphalt
2	1	SS	9-13-15-14	28		Subbase
3						Fine to Coarse Sand, some Gravel, trace to some Silt, Brown, Moist, Medium Dense, (SM)
4	2	SS	8-11-11-14	22		FILL
5						
6	3	SS	10-12-11-12	23		
7						
8	4	SS	8-7-4-4	11		Fine to Coarse Sand, trace to some Gravel, Silt, Brown, Moist, Medium Dense, (SM)
9						
10	5	SS	4-5-5-5	10		
11						
12	6	SS	8-10-11-12	21		
13						
14		RB				
15						
16	7	SS	9-10-9-9	19		Fine to Coarse Sand, trace to some Gravel, Silt, Brown, Wet, Medium Dense, (SM)
17						
18		RB				Silt, trace to some Fine Sand, Gray, Wet, Medium Dense, (ML)
19						
20						
21	8	SS	8-7-8-6	15		
22						
23		RB				Clayey Silt, trace to some Clay, Gray, Wet, Loose, Soft, (ML) (CL)
24						Occasional Thin Layers
25						
26	9	SS	4-5-4-6	9		
27						



PROJECT NAME: Wallace Campus

FILE NUMBER: 3691

LOCATION: Poughkeepsie, NY

OFFSET: None

DATE STARTED/COMPLETED: June 2020

SURFACE ELEV.: N/A

ENGINEER/ARCHITECT:

DRILL CONTRACTOR: Allied Drilling, Inc.

DRILLING METHOD: Rotary Wash

DRILL RIG TYPE: Truck

HAMMER WEIGHT: 140 Lbs

DROP: 30 Inches

CASING DIAMETER: OD/ID: 4 inch ID

WATER LEVEL DEPTH: at 17.0 Ft. TIME: WS

Daniel G Loucks PE  
 PO Box 163  
 Ballston Spa, New York 12020  
 Phone: 518-371-7622  
 Fax: 518-383-2069

DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value	Recovery	DESCRIPTION
28						Clayey Silt, Gray, Wet, Medium Dense, (ML)
29		RB				
30						Weathered Shale, trace to some Clayey Silt, trace Sand, Gray, Wet, Very Dense, (GM)
31	10	SS	7-7-9-7	16		
32						
33						
34		SS				
35						
36	11	SS	65-62-62-72	100+		
37						End of Boring at 41.0 Ft. Split Spoon Refusal
38						
39		RB				
40						
41	12	SS	88-100	100+		
42						
43						
44						
45						
46						
47						
48						
49						
50						
51						
52						
53						
54						

PROJECT NAME: Wallace Campus

FILE NUMBER: 3691

LOCATION: Poughkeepsie, NY

OFFSET: None

DATE STARTED/COMPLETED: June 2020

SURFACE ELEV.: N/A

ENGINEER/ARCHITECT:

DRILL CONTRACTOR: Allied Drilling, Inc.

DRILLING METHOD: Rotary Wash

DRILL RIG TYPE: Truck

HAMMER WEIGHT: 140 Lbs

DROP: 30 Inches

CASING DIAMETER: OD/ID: 4 inch ID

WATER LEVEL DEPTH: at 15.0 Ft. TIME: WS

Daniel G Loucks PE  
 PO Box 163  
 Ballston Spa, New York 12020  
 Phone: 518-371-7622  
 Fax: 518-383-2069

DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value	Recovery	DESCRIPTION
1						Asphalt Subbase
2	1	SS	23-21-20-13	41		Fine to Coarse Sand, trace to some Gravel, Silt, Brown, Moist, Medium Dense to Dense, (SM) Possible FILL
3						
4	2	SS	13-13-13-15	26		
5						
6	3	SS	13-10-8-8	18		Fine to Coarse Sand, trace to some Gravel, Silt, Brown, Moist, Medium Dense, (SM)
7						
8	4	SS	5-5-5-4	10		
9						
10	5	SS	6-5-4-3	9		Fine to Medium Sand, trace to some Silt, trace Gravel, Brown, Moist to Wet, Loose, (SM-SP)
11						
12	6	SS	6-7-8-6	15		Fine to Medium Sand, trace to some Silt, Brown, Moist, Medium Dense, (SM)
13						
14		RB				Silt and Fine Sand, Brown, Wet, Dense, (ML) (SM)
15						
16	7	SS	11-16-24-22	40		
17						End of Boring at 17.0 Ft.
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						

PROJECT NAME: Wallace Campus

FILE NUMBER: 3691

LOCATION: Poughkeepsie, NY

OFFSET: None

DATE STARTED/COMPLETED: June 2020

SURFACE ELEV.: N/A

ENGINEER/ARCHITECT:

DRILL CONTRACTOR: Allied Drilling, Inc.

DRILLING METHOD: Rotary Wash

DRILL RIG TYPE: Truck

HAMMER WEIGHT: 140 Lbs

DROP: 30 Inches

CASING DIAMETER: OD/ID: 4 inch ID

WATER LEVEL DEPTH: Not Noted TIME: WS

Daniel G Loucks PE  
 PO Box 163  
 Ballston Spa, New York 12020  
 Phone: 518-371-7622  
 Fax: 518-383-2069

DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value	Recovery	DESCRIPTION
1	1	SS	6-16-10-11	26		Topsoil
2						Fine to Coarse Sand, some Gravel, trace to some Silt, Brown, Moist, Medium Dense, (SM)
3	2	SS	8-11-9-9	20		FILL
4						Fine to Medium Sand, trace to some Silt, Brown, Moist, Medium Dense, (SM)
5	3	SS	9-13-10-13	23		Possible FILL
6						Fine to Coarse Sand, some Gravel, trace to some Silt, Brown, Moist, Medium Dense, (SM)
7	4	SS	15-12-12-11	24		
8						Fine to Coarse Sand, trace to some Gravel, Silt, Brown, Moist, Medium Dense, (SM)
9	5	SS	5-9-9-9	18		
10						
11						
12						
13		RB				
14						
15						
16	6	SS	10-11-12-11	23		
17						
18						End of Boring at 17.0 Ft.
19						
20						
21						
22						
23						
24						
25						
26						
27						

PROJECT NAME: Wallace Campus

FILE NUMBER: 3691

LOCATION: Poughkeepsie, NY

OFFSET: None

DATE STARTED/COMPLETED: June 2020

SURFACE ELEV.: N/A

ENGINEER/ARCHITECT:

DRILL CONTRACTOR: Allied Drilling, Inc.

DRILLING METHOD: Rotary Wash

DRILL RIG TYPE: Truck

HAMMER WEIGHT: 140 Lbs

DROP: 30 Inches

CASING DIAMETER: OD/ID: 4 inch ID

WATER LEVEL DEPTH: None

TIME: WS

Daniel G Loucks PE  
 PO Box 163  
 Ballston Spa, New York 12020  
 Phone: 518-371-7622  
 Fax: 518-383-2069

DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value	Recovery	DESCRIPTION
1	1	SS	16-13-15-14	28		Topsoil Fine to Coarse Sand, trace to some Silt, trace Gravel, Brown, Moist, Medium Dense, (SM)
2						
3	2	SS	14-14-8-8	22		
4						
5	3	SS	11-10-9-9	19		
6						Fine to Coarse Sand, some Gravel, trace to some Silt, Brown, Moist, Dense, (SM)
7	4	SS	12-10-12-15	22		
8						Fine to Coarse Sand, trace to some Silt, trace Gravel, Brown, Moist, Medium Dense, (SM-SP)
9	5	SS	14-20-30-32	50		
10						
11	6	SS	11-10-8-7	18		
12						RB
13						
14						
15						RB
16	7	SS	12-10-12-15	22		
17						End of Boring at 17.0 Ft.
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						

PROJECT NAME: Wallace Campus

FILE NUMBER: 3691

LOCATION: Poughkeepsie, NY

OFFSET: None

DATE STARTED/COMPLETED: June 2020

SURFACE ELEV.: N/A

ENGINEER/ARCHITECT:

DRILL CONTRACTOR: Allied Drilling, Inc.

DRILLING METHOD: Rotary Wash

DRILL RIG TYPE: Truck

HAMMER WEIGHT: 140 Lbs

DROP: 30 Inches

CASING DIAMETER: OD/ID: 4 inch ID

WATER LEVEL DEPTH: at 15.0 Ft. TIME: WS

Daniel G Loucks PE  
 PO Box 163  
 Ballston Spa, New York 12020  
 Phone: 518-371-7622  
 Fax: 518-383-2069

DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value	Recovery	DESCRIPTION
1						Asphalt
2	1	SS	4-2-2-1	4		Subbase
3						Fine to Coarse Sand and Gravel, trace to some Clayey Silt, trace Brick, Dark Brown, Moist to Wet, Loose, (SM-GM) FILL
4	2	SS	3-1-2-2	3		
5						No Recovery
6	3	SS	1-2-1-2	3		
7						
8	4	SS	5-3-8-9	11		Fine to Coarse Sand, some Gravel, trace to some Silt, trace Brick, Brown, Moist, Medium Dense, (SM) FILL
9						
10	5	SS	3-4-3-7	7		Fine to Coarse Sand, trace to some Gravel, Silt, Brown, Moist, Loose to Medium Dense, (SM)
11						
12	6	SS	9-10-9-15	19		
13						
14		RB				Fine to Coarse Sand, some Gravel, trace to some Silt, Brown, Moist to Wet, Medium Dense to Dense, (SM-SP)
15						
16	7	SS	15-18-17-15	35		
17						
18		RB				
19						
20						
21	8	SS	11-10-9-7	19		
22						
23		RB				
24						Clayey Silt, trace Fine Sand, Gray, Wet, Dense, (ML)
25						
26	9	SS	16-26-24-72	50		
27						

PROJECT NAME: Wallace Campus

FILE NUMBER: 3691

LOCATION: Poughkeepsie, NY

OFFSET: None

DATE STARTED/COMPLETED: June 2020

SURFACE ELEV.: N/A

ENGINEER/ARCHITECT:

DRILL CONTRACTOR: Allied Drilling, Inc.

DRILLING METHOD: Rotary Wash

DRILL RIG TYPE: Truck

HAMMER WEIGHT: 140 Lbs

DROP: 30 Inches

CASING DIAMETER: OD/ID: 4 inch ID

WATER LEVEL DEPTH: at 15.0 Ft. TIME: WS

Daniel G Loucks PE  
 PO Box 163  
 Ballston Spa, New York 12020  
 Phone: 518-371-7622  
 Fax: 518-383-2069

DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value	Recovery	DESCRIPTION
28		RB				Clayey Silt, trace to some Clay, Gray, Wet, Dense, Medium, (ML-CL) Occasional Thin Layers
29						
30						
31	10	SS	16-18-17-18	35		
32						
33		RB				Clayey Silt, trace Fine Sand, Gray, Wet, Medium Dense, (ML)
34						
35						
36	11	SS	13-14-13-13	27		
37						
38		RB				
39						
40						
41	12	SS	8-12-15-15	27		
42						
43		RB				
44						
45						
46	13	SS	10-10-10-12	20		
47						
48		RB				Silt, some Clay, Gray, Wet, Loose, Soft, (ML) (CL) Layered
49						
50						
51	14	SS	4-5-70-54	75		Weathered Shale, trace to some Clayey Silt, trace Sand, Gray, Wet, Dense to Very Dense, (GM)
52						
53		RB				
54						

PROJECT NAME: Wallace Campus  
 LOCATION: Poughkeepsie, NY  
 DATE STARTED/COMPLETED: June 2020  
 ENGINEER/ARCHITECT:  
 DRILLING METHOD: Rotary Wash  
 DRILL RIG TYPE: Truck  
 HAMMER WEIGHT: 140 Lbs  
 DROP: 30 Inches  
 CASING DIAMETER: OD/ID: 4 inch ID  
 WATER LEVEL DEPTH: at 15.0 Ft.      TIME: WS

FILE NUMBER: 3691  
 OFFSET: None  
 SURFACE ELEV.: N/A  
 DRILL CONTRACTOR: Allied Drilling, Inc.

**Daniel G Loucks PE**  
 PO Box 163  
 Ballston Spa, New York 12020  
 Phone: 518-371-7622  
 Fax: 518-383-2069

DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value	Recovery	DESCRIPTION
55						Weathered Shale, trace to some Clayey Silt, trace Sand, Gray, Wet, Very Dense, (GM)
56	15	SS	38-33-21-100	54		
57						
58						
59		RB				
60						
61	16	SS	50-42-55-64	97		End of Boring at 62.0 Ft.
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						
75						
76						
77						
78						
79						
80						
81						

PROJECT NAME: Wallace Campus

FILE NUMBER: 3691

LOCATION: Poughkeepsie, NY

OFFSET: None

DATE STARTED/COMPLETED: June 2020

SURFACE ELEV.: N/A

ENGINEER/ARCHITECT:

DRILL CONTRACTOR: Allied Drilling, Inc.

DRILLING METHOD: Rotary Wash

DRILL RIG TYPE: Truck

HAMMER WEIGHT: 140 Lbs

DROP: 30 Inches

CASING DIAMETER: OD/ID: 4 inch ID

WATER LEVEL DEPTH: None

TIME: WS

Daniel G Loucks PE  
PO Box 163  
Ballston Spa, New York 12020  
Phone: 518-371-7622  
Fax: 518-383-2069

DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value	Recovery	DESCRIPTION
1						Asphalt Subbase
2	1	SS	21-8-7-5	15		Fine to Coarse Sand, some Gravel, trace to some Silt, trace Asphalt, Black, Moist, Medium Dense, (SM)
3						FILL
4	2	SS	7-4-4-3	8		Fine Sand, trace to some Silt, Brown, Moist, Loose, (SM)
5						FILL
6	3	SS	4-3-3-4	6		Fine to Coarse Sand, trace to some Gravel, Silt, Brown, Moist, Loose, (SM)
7						Possible FILL
8	4	SS	6-7-8-6	15		Fine to Coarse Sand, some Gravel, trace to some Silt, Brown, Moist, Medium Dense, (SM-SP)
9						
10	5	SS	6-7-7-7	14		Fine to Coarse Sand, trace to some Silt, trace Gravel, Brown, Moist, Medium Dense to Dense, (SM-SP)
11						
12	6	SS	12-16-16-11	32		
13						
14		RB				
15						
16	7	SS	10-8-7-8	15		
17						End of Boring at 17.0 Ft.
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						



PROJECT NAME: Wallace Campus

FILE NUMBER: 3691

LOCATION: Poughkeepsie, NY

OFFSET: None

DATE STARTED/COMPLETED: June 2020

SURFACE ELEV.: N/A

ENGINEER/ARCHITECT:

DRILL CONTRACTOR: Allied Drilling, Inc.

DRILLING METHOD: Rotary Wash

DRILL RIG TYPE: Truck

HAMMER WEIGHT: 140 Lbs

DROP: 30 Inches

CASING DIAMETER: OD/ID: 4 inch ID

WATER LEVEL DEPTH: Not Noted TIME: WS

**Daniel G Loucks PE**  
 PO Box 163  
 Ballston Spa, New York 12020  
 Phone: 518-371-7622  
 Fax: 518-383-2069

DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value	Recovery	DESCRIPTION
1						Concrete
2	1	SS	8-12-5-3	17		Fine to Medium Gravel, some Sand, trace Silt, Brown, Moist, Medium Dense, (GM-GP) FILL
3						
4	2	SS	4-4-5-5	9		Fine to Coarse Sand and Gravel, trace to some Silt, trace Brick, Brown, Moist to Wet, Loose to Dense, (SM-GM) FILL
5						
6	3	SS	11-21-18-8	39		
7						
8	4	SS	8-10-14-14	24		Fine to Coarse Sand, some Gravel, trace to some Silt, Brown, Moist to Wet, Medium Dense, (SM-SP) Possible FILL
9						
10	5	SS	17-18-16-15	34		Fine to Coarse Sand, trace to some Gravel, Silt, Brown, Moist, Medium Dense to Dense, (SM-SP)
11						
12	6	SS	15-16-17-17	33		
13						
14		RB				
15						
16	7	SS	7-15-12-11	27		
17						End of Boring at 17.0 Ft.
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						

PROJECT NAME: Wallace Campus

FILE NUMBER: 3691

LOCATION: Poughkeepsie, NY

OFFSET: None

DATE STARTED/COMPLETED: June 2020

SURFACE ELEV.: N/A

ENGINEER/ARCHITECT:

DRILL CONTRACTOR: Allied Drilling, Inc.

DRILLING METHOD: Rotary Wash

DRILL RIG TYPE: Truck

HAMMER WEIGHT: 140 Lbs

DROP: 30 Inches

CASING DIAMETER: OD/ID: 4 inch ID

WATER LEVEL DEPTH: at 16.0 Ft. TIME: WS

Daniel G Loucks PE  
 PO Box 163  
 Ballston Spa, New York 12020  
 Phone: 518-371-7622  
 Fax: 518-383-2069

DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value	Recovery	DESCRIPTION
1						Concrete
2						Fine to Coarse Sand and Gravel, trace to some Silt, Brown, Moist, Medium Dense, (SM-SP) (GM-GP) FILL
3	1	SS	13-3-8-7	11		
4						
5	2	SS	15-14-14-11	28		Fine to Coarse Sand and Gravel, trace to some Silt, Brown, Wet, Medium Dense, (SM-GM)
6						
7	3	SS	9-13-15-15	28		
8						Fine to Coarse Sand, some Gravel, trace to some Silt, Brown, Wet, Medium Dense, (SM)
9	4	SS	19-18-7-5	25		
10						
11	5	SS	8-7-5-6	12		Clayey Silt, trace Fine Sand, Gray, Wet, Medium Dense, (ML)
12						
13		RB				
14						Clayey Silt, some Clay, Gray, Wet, Medium Dense, Soft, (ML-CL) Occasional Clay Layers
15						
16	6	SS	11-8-5-6	13		
17						Clayey Silt, some Clay, Gray, Wet, Medium Dense, Soft, (ML-CL) Occasional Clay Layers
18		RB				
19						
20						Clayey Silt, some Clay, Gray, Wet, Medium Dense, Soft, (ML-CL) Occasional Clay Layers
21	7	SS	8-10-9-8	19		
22						
23		RB				Clayey Silt, some Clay, Gray, Wet, Medium Dense, Soft, (ML-CL) Occasional Clay Layers
24						
25						
26	8	SS	8-9-2-3	11		Clayey Silt, some Clay, Gray, Wet, Medium Dense, Soft, (ML-CL) Occasional Clay Layers
27						

PROJECT NAME: Wallace Campus

FILE NUMBER: 3691

LOCATION: Poughkeepsie, NY

OFFSET: None

DATE STARTED/COMPLETED: June 2020

SURFACE ELEV.: N/A

ENGINEER/ARCHITECT:

DRILL CONTRACTOR: Allied Drilling, Inc.

DRILLING METHOD: Rotary Wash

DRILL RIG TYPE: Truck

HAMMER WEIGHT: 140 Lbs

DROP: 30 Inches

CASING DIAMETER: OD/ID: 4 inch ID

WATER LEVEL DEPTH: at 16.0 Ft. TIME: WS

Daniel G Loucks PE  
 PO Box 163  
 Ballston Spa, New York 12020  
 Phone: 518-371-7622  
 Fax: 518-383-2069

DEPTH	Sample Number	Sample Type	BLOW COUNTS per 6 inches	"N" Value	Recovery	DESCRIPTION
28		RB				Clayey Silt and Weathered Shale, Gray, Wet, Dense to Very Dense, (ML-SM)
29						
30						
31	9	SS	15-26-25-25	51		
32						
33		RB				
34						
35						
36	10	SS	31-36-56-78	92		
37						
38		RB				Weathered Shale, trace to some Clayey Silt, Gray, Wet, Very Dense, (GM)
39						
40	11	SS	89-100/3	100+		End of Boring at 40.8 Ft. Split Spoon Refusal
41						
42						
43						
44						
45						
46						
47						
48						
49						
50						
51						
52						
53						
54						

**Test Pit Logs**  
**Wallace Campus Project**  
Catherine & Main St, Poughkeepsie, NY  
File No. 3691

Test Pit # 1

0.0 – 0.5 ft Dark Brown Sand, trace to some Silt, trace Gravel, Roots (SM) Topsoil

0.5 – 2.5 ft Brown Sand, trace to some Silt, Gravel, trace Ash (SM) FILL

Pipe Encountered

No Water Observed

Test Pit # 2

0.0 – 0.5 ft Dark Brown Sand, trace to some Silt, trace Gravel, Roots (SM) Topsoil

0.5 – 3.0 ft Brown Sand, trace to some Silt, Gravel, Brick, trace Ash (SM) FILL

Wire Encountered

No Water Observed

Test Pit # 3

0.0 – 0.3 ft Asphalt Pavement

0.3 – 1.0 ft Brown Sand and Gravel, trace to some Silt (SM-GM) FILL

1.0 – 6.0 ft Brown Sand, some Silt, trace to some Debris (SM) FILL

6.0 – 10.0 ft Brown Sand, some Clayey Silt, trace Gravel (SM) FILL

Top of Footing 10 ft, 2 ft wide

No Water Observed

Wallace Campus Project  
B-1  
Liquefaction Analysis

SPT No.	Depth (ft)	N field	Ce	Cr	Cs	Cb	Total Stress (psf)	Effective Stress (psf)	Cn	N1,60	FC (%)	N1,60,cs	Ksigma	Alpha	Kalpha	CRR	CSR	Safety Factor
1	1	24	.95	1	1	1	120	120	1.7	38.7	20	45.38	1	---	---	---	.102	---
2	3	14	.95	1	1	1	360	360	1.7	22.6	15	26.18	1	---	---	---	.1	---
3	5	6	.95	1	1	1	600	600	1.7	9.6	15	12.55	1	---	---	---	.1	---
4	7	21	.95	1	1	1	840	840	1.58	31.5	15	35.51	1	---	---	---	.1	---
5	9	23	.95	1	1	1	1080	1080	1.39	30.3	15	34.25	1	---	---	---	.099	---
6	11	24	.95	1	1	1	1320	1320	1.26	28.7	15	32.57	1	---	---	---	.099	---
7	13	21	.95	1	1	1	1560	1560	1.16	23.1	15	26.7	1	---	---	---	.099	---
8	16	17	.95	1	1	1	1920	1857.6	1.06	17.1	15	20.42	1	---	---	.46	.103	4.46
9	21	28	.95	1	1	1	2510	2135.6	.99	26.3	85	36.56	996	---	---	NL	.113	---
10	26	19	.95	1	1	1	3060	2373.6	.94	16.9	85	25.28	958	---	---	.595	.122	4.87
11	31	36	.95	1	1	1	3610	2611.6	.9	30.7	85	41.84	919	---	---	NL	.128	---
12	36	24	.95	1	1	1	4160	2849.6	.86	19.6	85	28.52	889	---	---	.722	.13	5.55
13	41	18	.95	1	1	1	4720	3097.6	.82	14	85	21.8	877	---	---	.437	.129	3.38
14	46	18	.95	1	1	1	5320	3385.6	.79	13.5	85	21.2	852	---	---	.41	.126	3.25
15	51	14	.95	1	1	1	5925	3678.6	.75	9.9	90	16.87	845	---	---	.316	.121	2.61
16	56	100	.95	1	1	1	6555	3996.6	.72	68.4	15	74.18	.775	---	---	NL	.115	---

Notes:  
 CSR analysis using Seed & Idriss (1971)  
 CSR File:  
 CRR using SPT Data and Seed et. al. Method in 1997 NCEER Workshop  
 CRR File: C:\Program Files\Geotechnical\Projects\3691.CRR  
 Earthquake used in CSR Analysis: 0.0 Mw, 6  
 Peak Ground Acceleration for CSR Analysis: .157  
 Magnitude Scaling Factor (MSF): 2.088  
 Depth to Water Table for CRR Analysis (ft): 15  
 Depth to Water Table for Cn Calculation (ft): 15  
 Depth to Base Layer for CSR Analysis (ft): 57.5  
 MSF Option: Andrus & Stokoe (1997)  
 Cn Option: Liao & Whitman (1986)  
 Ksigma Option: HV Test & Olsen (1999)  
 Alpha Option: Hammer  
 \*effective stress computed using Depth to Water Table for CRR Analysis  
 \*value modified by user

Wallace Campus Project  
B-1  
Seismic Induced Settlement Analysis

SPT No.	Depth (ft)	Thickness (ft)	Soil Type	(N)1	(N1)60,cs	N(1,J)	CSR M=7.5	FSL	Ecyc (%)	Evol (%)	Settlement (in)
1	1	2		45.38	----	----	.048	----	1.0000E-03	.002	0
2	3	2		26.18	----	----	.047	----	2.1086E-03	.0044	.001
3	5	2		12.55	----	----	.047	----	3.6488E-03	.0112	.002
4	7	2		35.51	----	----	.047	----	2.9773E-03	.0026	0
5	9	2		34.25	----	----	.047	----	3.4261E-03	.0028	0
6	11	2		32.57	----	----	.047	----	3.8585E-03	.003	0
7	13	3		26.7	----	----	.047	----	4.6737E-03	.0043	.001
8	16	3.5		----	20.42		.049	4.46		----	0
9	21	5		----	----	----	----	NFSL		----	0
10	26	5		----	25.28		.058	4.87		----	0
11	31	5		----	----	----	----	NFSL		----	.06
12	36	5		----	28.52		.062	5.55		.1	.06
13	41	5		----	21.8		.061	3.38		.1	.06
14	46	5		----	21.2		.06	3.25		.1	.06
15	51	5		----	16.87		.057	2.61		.1	.06
16	56	2.5		----	----	----	----	NFSL		----	.03
Total Settlement (in):											.334

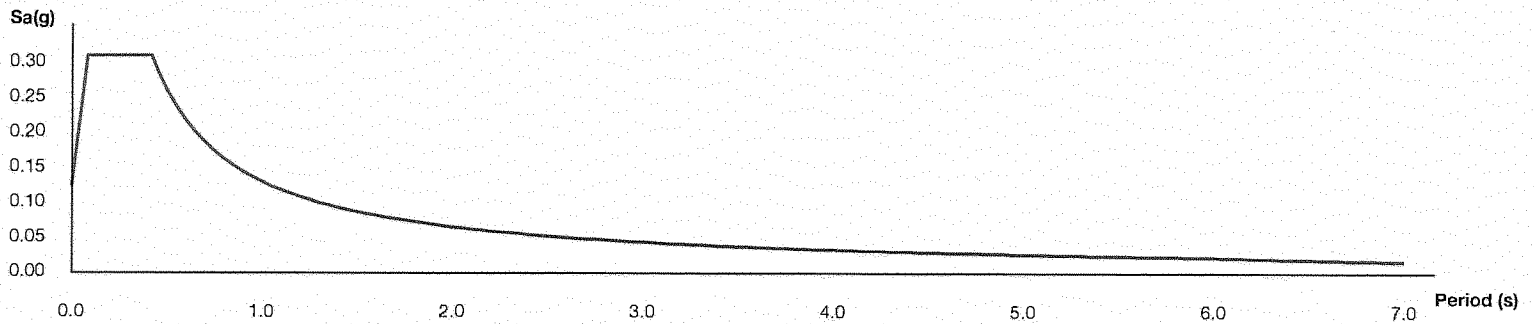
Notes:  
 CSR analysis using Seed & Idriss (1971)  
 CSR analysis on File:  
 Earthquake used in CSR Analysis: 6.0 Mw  
 CRR File: C:\Program Files\GeoMotions\Projects\3691.CRR  
 CRR - SPT Data & Seed et. al. Method in NCEER Workshop  
 CRR results on File: C:\Program Files\GeoMotions\Projects\3691.CRR  
 Depth to Water Table for CRR Analysis (ft): 15  
 Settlement of Dry Sands: Tokimatsu & Seed (1987)  
 Settlement of Saturated Sands: Tokimatsu & Seed (1987)

**Search Information**

**Coordinates:** 41.7035614731233, -73.92609742969972  
**Elevation:** 178 ft  
**Timestamp:** 2020-09-03T18:19:26.566Z  
**Hazard Type:** Seismic  
**Reference Document:** ASCE41-17  
**Site Class:** D  
**Custom Probability:**



**Horizontal Response Spectrum - Hazard Level BSE-2N**



**Hazard Level BSE-2N**

Name	Value	Description
SsUH	0.206	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
CR <sub>S</sub>	0.942	Coefficient of risk (0.2s)
SsRT	0.194	Probabilistic risk-targeted ground motion (0.2s)
SsD	1.5	Factored deterministic acceleration value (0.2s)
S <sub>S</sub>	0.194	MCE <sub>R</sub> ground motion (period=0.2s)
F <sub>a</sub>	1.6	Site amplification factor at 0.2s
S <sub>Xs</sub>	0.31	Site modified spectral response (0.2s)
S1UH	0.059	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
CR <sub>1</sub>	0.924	Coefficient of risk (1.0s)
S1RT	0.054	Probabilistic risk-targeted ground motion (1.0s)
S1D	0.6	Factored deterministic acceleration value (1.0s)
S <sub>1</sub>	0.054	MCE <sub>R</sub> ground motion (period=1.0s)
F <sub>v</sub>	2.4	Site amplification factor at 1.0s
S <sub>X1</sub>	0.131	Site modified spectral response (1.0s)

**Hazard Level BSE-1N**

Name	Value	Description
S <sub>Xs</sub>	0.207	Site modified spectral response (0.2s)
S <sub>X1</sub>	0.087	Site modified spectral response (1.0s)

**Hazard Level BSE-2E**

Name	Value	Description
S <sub>S</sub>	0.118	MCE <sub>R</sub> ground motion (period=0.2s)
F <sub>a</sub>	1.6	Site amplification factor at 0.2s
S <sub>XS</sub>	0.189	Site modified spectral response (0.2s)
S <sub>1</sub>	0.037	MCE <sub>R</sub> ground motion (period=1.0s)
F <sub>v</sub>	2.4	Site amplification factor at 1.0s
S <sub>X1</sub>	0.088	Site modified spectral response (1.0s)

### Hazard Level BSE-1E

Name	Value	Description
S <sub>S</sub>	0.047	MCE <sub>R</sub> ground motion (period=0.2s)
F <sub>a</sub>	1.6	Site amplification factor at 0.2s
S <sub>XS</sub>	0.075	Site modified spectral response (0.2s)
S <sub>1</sub>	0.016	MCE <sub>R</sub> ground motion (period=1.0s)
F <sub>v</sub>	2.4	Site amplification factor at 1.0s
S <sub>X1</sub>	0.037	Site modified spectral response (1.0s)

### T<sub>L</sub> Data

Name	Value	Description
T <sub>L</sub>	6	Long-period transition period (s)

*The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.*

### Disclaimer

Hazard loads are provided by the U.S. Geological Survey [Seismic Design Web Services](#).

While the information presented on this website is believed to be correct, ATC and its sponsors and contributors assume no responsibility or liability for its accuracy. The material presented in the report should not be used or relied upon for any specific application without competent examination and verification of its accuracy, suitability and applicability by engineers or other licensed professionals. ATC does not intend that the use of this information replace the sound judgment of such competent professionals, having experience and knowledge in the field of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the results of the report provided by this website. Users of the information from this website assume all liability arising from such use. Use of the output of this website does not imply approval by the governing building code bodies responsible for building code approval and interpretation for the building site described by latitude/longitude location in the report.



# CONSTRUCTION TECHNOLOGY

INSPECTION & TESTING DIVISION, P.D. & T.S., INC.

4 William Street, Ballston Lake, New York 12019

Phone: (518) 399-1848 Email: constructiontech@live.com

CLIENT: **DANIEL LOUCKS, P.E.**  
 POST OFFICE BOX 163  
 BALLSTON SPA, NEW YORK 12020

REPORT DATE: 06/29/20  
 SAMPLE NUMBER: 19406  
 OUR FILE NO: 750.001

*Robert Behan*

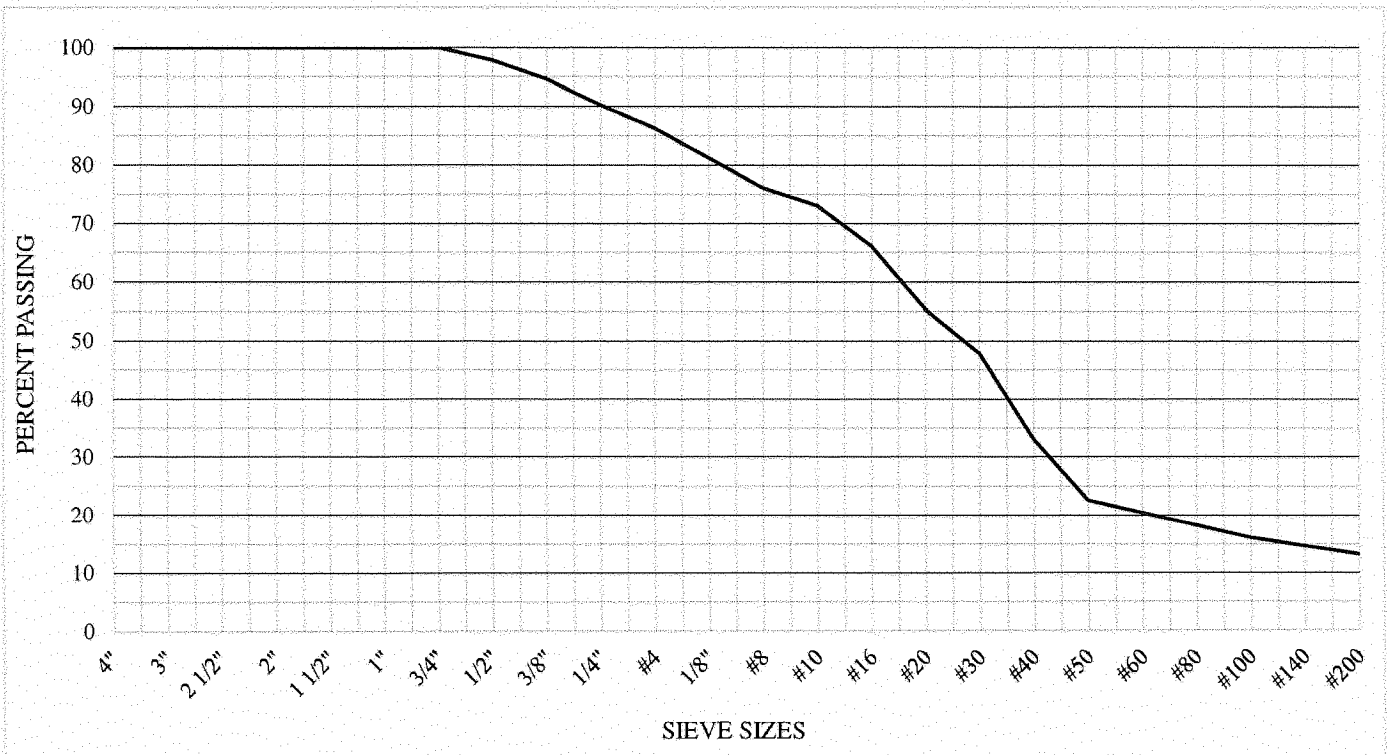
ATTN: MR. DANIEL LOUCKS, P.E.  
 PROJECT: **WALLACE CAMPUS, POUGHKEEPSIE, NEW YORK**

REVIEWED BY: ROBERT BEHAN, NICET

## ASTM C136 / C117 / D422: SIZE DISTRIBUTION OF SOIL & AGGREGATES: SIEVE ANALYSIS

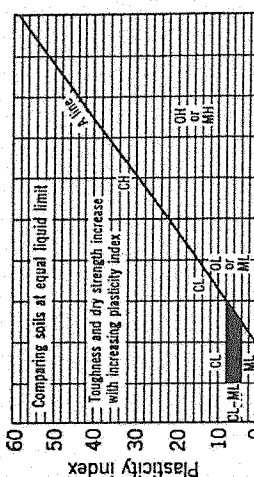
MATERIAL SOURCE: CLIENT ID: B-5, S-7, 10'-12'  
 MATERIAL DESCRIPTION: SAND, medium/fine; little fine Gravel, little Silt/Clay  
 MATERIAL PROJECT USE: PER CLIENT:  
 EVALUATION SPECIFICATION: PER CLIENT:

COARSE SIEVE SERIES: US STANDARD				MEDIUM SIEVE SERIES: US STANDARD				FINE SIEVE SERIES: US STANDARD			
SIEVE SIZE	PERCENT RETAINED	PERCENT PASSING	SPECIFICATION ALLOWANCE	SIEVE SIZE	PERCENT RETAINED	PERCENT PASSING	SPECIFICATION ALLOWANCE	SIEVE SIZE	PERCENT RETAINED	PERCENT PASSING	SPECIFICATION ALLOWANCE
4"				1/4"	9.8	90.2		#50	77.4	22.6	
3"				#4	13.7	86.3		#60			
2 1/2"				1/8"				#80			
2"				#8	23.9	76.1		#100	83.9	16.1	
1 1/2"				#10				#140			
1"				#16	33.9	66.1		#200	86.8	13.2	
3/4"		100.0		#20				SILT			
1/2"	2.2	97.8		#30	52.2	47.8		CLAY			
3/8"	5.4	94.6		#40	67.0	33.0		COLLOID			



**Table 3.5 Unified Soil Classification**

Field Identification Procedures (Excluding particles larger than 3 in. and basing fractions on estimated weights)		Group Symbols	Typical Names	Information Required for Describing Soils	Laboratory Classification Criteria
Coarse-grained soils More than half of material is larger than No. 200 sieve size	Gravel More than half of coarse fraction is larger than No. 4 sieve size	GW GP GM GC	Well graded gravels, gravel-sand mixtures, little or no fines	Give typical name; indicate approximate percentages of sand and gravel; maximum size; angularity, surface condition, and hardness of the coarse grains; local or geologic name and other pertinent descriptive information; and symbols in parentheses	$C_U = \frac{D_{60}}{D_{10}}$ Greater than 4 $C_C = \frac{D_{30}}{D_{10} \times D_{60}}$ Between 1 and 3 Not meeting all gradation requirements for GW Atterberg limits below "A" line, or PI less than 4 Atterberg limits above "A" line, with PI greater than 7
	Sands More than half of coarse fraction is smaller than No. 4 sieve size		Poorly graded gravels, gravel-sand mixtures, little or no fines Silty gravels, poorly graded gravel-sand-silt mixtures Clayey gravels, poorly graded gravel-sand-clay mixtures	For undisturbed soils add information on stratification, degree of compaction, cementation, moisture conditions and drainage characteristics Example: Silty sand, gravelly; about 20% hard, angular gravel particles 1/4-in. maximum size; rounded and subangular sand grains coarse to fine, about 15% non-plastic fines with low dry strength; well compacted and moist in place; alluvial sand; (SM)	
Fine-grained soils More than half of material is smaller than No. 200 sieve size	Sands More than half of coarse fraction is smaller than No. 4 sieve size	SW SP SM SC	Well graded sands, gravelly sands, little or no fines Poorly graded sands, gravelly sands, little or no fines Silty sands, poorly graded sand-silt mixtures Clayey sands, poorly graded sand-clay mixtures	Determine percentages of gravel and sand from grain size curve depending on percentage of fines (fraction smaller than No. 200 sieve size) coarse grained soils are classified as follows: GW, GP, SM, SP GM, GC, SM, SC Borderline cases requiring use of dual symbols	$C_U = \frac{D_{60}}{D_{10}}$ Greater than 6 $C_C = \frac{D_{30}}{D_{10} \times D_{60}}$ Between 1 and 3 Not meeting all gradation requirements for SW Atterberg limits below "A" line or PI less than 5 Atterberg limits above "A" line with PI greater than 7
	Silts and clays Silt and clay liquid limit less than 50		Inorganic silts and very fine sands, rock flour, silty or clayey fine sands with slight plasticity Inorganic clays of low to medium plasticity, gravelly clays, silty clays, lean clays Organic silts and organic silts of low plasticity Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts Inorganic clays of high plasticity, fat clays Organic clays of medium to high plasticity Peat and other highly organic soils	Give typical name; indicate degree and character of plasticity, amount and maximum size of coarse grains; colour in wet condition; odour if any; local or geologic name; and other pertinent descriptive information, and symbol in parentheses For undisturbed soils add information on structure, stratification, consistency in undisturbed and remoulded states, moisture and drainage conditions Example: Clayey silt, brown; slightly plastic; small percentage of fine sand; numerous vertical root holes; firm and dry in place; loess; (ML)	
Identification Procedures on Fraction Smaller than No. 40 Sieve Size		Use grain size curve in identifying the fractions as given under field identification			
Dry Strength (Crushing characteristics): Toughness (Consistency near plastic limit) Dilatancy (reaction to shaking) None to slight Medium to high Slight to medium Slight to medium High to very high Medium to high		Give typical name; indicate degree and character of plasticity, amount and maximum size of coarse grains; colour in wet condition; odour if any; local or geologic name; and other pertinent descriptive information, and symbol in parentheses For undisturbed soils add information on structure, stratification, consistency in undisturbed and remoulded states, moisture and drainage conditions Example: Clayey silt, brown; slightly plastic; small percentage of fine sand; numerous vertical root holes; firm and dry in place; loess; (ML)			
Highly Organic Soils		Give typical name; indicate degree and character of plasticity, amount and maximum size of coarse grains; colour in wet condition; odour if any; local or geologic name; and other pertinent descriptive information, and symbol in parentheses For undisturbed soils add information on structure, stratification, consistency in undisturbed and remoulded states, moisture and drainage conditions Example: Clayey silt, brown; slightly plastic; small percentage of fine sand; numerous vertical root holes; firm and dry in place; loess; (ML)			



Liquid limit  
Plasticity chart  
for laboratory classification of fine grained soils

From Wagner, 1957.  
 a. Boundary classifications. Soils possessing characteristics of two groups are designated by combinations of group symbols. For example GW-GC, well graded gravel-sand mixture with clay binder.  
 b. All sieve sizes on this chart are U.S. standard.

These procedures are to be performed on the minus No. 40 sieve size particles, screening is not intended, simply remove by hand the coarse particles that interfere with the tests.

**Dilatancy (Reaction to shaking):**  
 After removing particles larger than No. 40 sieve size, prepare a pat of moist soil with a volume of about one-half cubic inch. Add enough water if necessary to make the soil soft but not sticky. Place the pat in the open palm of one hand and shake horizontally, striking vigorously against the other hand several times. A positive reaction consists of the appearance of water on the surface of the pat which is squeezed between the fingers, the water and gloss disappear from the surface, the pat stiffens and finally it cracks or crumbles. The rapidity of appearance of water during shaking and of its disappearance during squeezing assist in identifying the character of the fines in a soil. Very fine clean sands give the quickest and most distinct reaction whereas a plastic clay has no reaction. Inorganic silts, such as a typical rock flour, show a moderately quick reaction.

**Dry Strength (Crushing characteristics):**  
 After removing particles larger than No. 40 sieve size, mould a pat of soil to the consistency of putty, adding water if necessary. Allow the pat to dry completely by oven, sun or air drying, and then test its strength by breaking and crumbling between the fingers. This strength is a measure of the character and quantity of the colloidal fraction contained in the soil. The dry strength increases with increasing plasticity. High dry strength is characteristic for clays of the CH group. A typical inorganic silt possesses only very slight dry strength. Silty fine sands and silts have about the same slight dry strength, but can be distinguished by the feel when powdering the dried specimen. Fine sand feels gritty whereas a typical silt has the smooth feel of flour.

**Toughness (Consistency near plastic limit):**  
 After removing particles larger than the No. 40 sieve size, a specimen of soil about one-half inch cube in size, is moulded to the consistency of putty. If too dry, water must be added and if sticky, the specimen should be spread out in a thin layer and allowed to lose some moisture by evaporation. Then the specimen is rolled out by hand on a smooth surface or between the palms into a thread about one-eighth inch in diameter. The thread is then folded and re-rolled repeatedly. During this manipulation the moisture content is gradually reduced and the specimen stiffens, finally loses its plasticity, and crumbles when the plastic limit is reached.  
 After the thread crumbles, the pieces should be lumped together and a slight kneading action continued until the lump crumbles.  
 The tougher the action continued until the lump crumbles.  
 It finally crumbles, the more potent is the colloidal clay fraction in the soil. Weakness of the thread at the plastic limit and quick loss of coherence of the lump below the plastic limit indicate either inorganic clay of low plasticity, or materials such as kaolin-type clays and organic clays which occur below the A-line.  
 Highly organic clays have a very weak and spongy feel at the plastic limit.

Soil Characteristics Pertinent to Roads and Airfields

Major Divisions	Letter (1)	Name	Value as Subgrade When Not Subject to Frost Action	Value as Subbase When Not Subject to Frost Action	Value as Base When Not Subject to Frost Action	Potential Frost Action	Compressibility and Expansion	Drainage Characteristics	Compaction Equipment	Unit Dry Weight lb. per cu. ft.	Typical Design Values	
											CBR (2)	Subgrade Modulus k lb. per cu. in.
GRAVEL AND GRAVELLY SOILS	GW	Well-graded gravels or gravel-sand mixtures, little or no fines	Excellent	Excellent	Good	None to very slight	Almost none	Excellent	Crawler-type tractor, rubber-tired roller, steel-wheeled roller	125-140	40-80	300-500
	GP	Poorly graded gravels or gravel-sand mixtures, little or no fines	Good to excellent	Good	Fair to good	None to very slight	Almost none	Excellent	Crawler-type tractor, rubber-tired roller, steel-wheeled roller	110-140	30-60	300-500
			Good to excellent	Good	Fair to good	Slight to medium	Very slight	Fair to poor	Rubber-tired roller, sheepsfoot roller, close control of moisture	125-145	40-60	300-500
	GM	Silty gravels, gravel-sand-silt mixtures	Good	Fair	Poor to not suitable	Slight to medium	Slight	Poor to practically impervious	Rubber-tired roller, sheepsfoot roller, close control of moisture	115-135	20-30	200-500
			Good	Fair	Poor to not suitable	Slight to medium	Slight	Poor to practically impervious	Rubber-tired roller, sheepsfoot roller	130-145	20-40	200-500
	SW	Well-graded sands or gravelly sands, little or no fines	Good	Fair to good	Poor	None to very slight	Almost none	Excellent	Crawler-type tractor, rubber-tired roller	110-130	20-40	200-400
			Fair to good	Fair	Poor to not suitable	None to very slight	Almost none	Excellent	Crawler-type tractor, rubber-tired roller	105-135	10-40	150-400
	SP	Poorly graded sands or gravelly sands, little or no fines	Fair to good	Fair to good	Poor	Slight to high	Very slight	Fair to poor	Rubber-tired roller, sheepsfoot roller, close control of moisture	120-135	15-40	150-400
			Fair	Poor to fair	Not suitable	Slight to high	Slight to medium	Poor to practically impervious	Rubber-tired roller, sheepsfoot roller	100-130	10-20	100-300
	SC	Clayey sands, sand-clay mixtures	Poor to fair	Poor	Not suitable	Slight to high	Slight to medium	Poor to practically impervious	Rubber-tired roller, sheepsfoot roller	100-135	5-20	100-300
Poor to fair			Not suitable	Not suitable	Medium to very high	Slight to medium	Fair to poor	Rubber-tired roller, sheepsfoot roller, close control of moisture	90-130	15 or less	100-200	
FINE-GRAINED SOILS	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity	Poor to fair	Not suitable	Not suitable	Medium to very high	Slight to medium	Poor to practically impervious	Rubber-tired roller, sheepsfoot roller	90-130	15 or less	50-150
	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	Poor to fair	Not suitable	Not suitable	Medium to high	Medium	Practically impervious	Rubber-tired roller, sheepsfoot roller	90-130	15 or less	50-150
	OL	Organic silts and organic silt-clays of low plasticity	Poor	Not suitable	Not suitable	Medium to high	Medium to high	Poor	Rubber-tired roller, sheepsfoot roller	90-105	5 or less	50-100
	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts	Poor	Not suitable	Not suitable	Medium to very high	High	Fair to poor	Sheepsfoot roller, rubber-tired roller	80-105	10 or less	50-100
HIGHLY ORGANIC SOILS	CH	Inorganic clays of medium to high plasticity, organic silts	Poor to fair	Not suitable	Not suitable	Medium	High	Practically impervious	Sheepsfoot roller, rubber-tired roller	90-115	15 or less	50-150
	OH	Organic clays of high plasticity, fat clays	Poor to very poor	Not suitable	Not suitable	Medium	High	Practically impervious	Sheepsfoot roller, rubber-tired roller	80-110	5 or less	25-100
	Pt	Peat and other highly organic soils	Not suitable	Not suitable	Not suitable	Slight	Very high	Fair to poor	Compaction not practical	—	—	—

Note:  
 (1) Unit Dry Weights are for compacted soil at optimum moisture content for modified AASHO compaction effort. Division of GM and SM groups into subdivision of d and u are for roads and airfields only. Subdivision is basis of Aterberg limits; suffix d (e.g., GMd) will be used when the liquid limit (LL) is 25 or less and the plasticity index is 6 or less; the suffix u will be used otherwise.  
 (2) The maximum value that can be used in design of airfields is, in some cases, limited by gradation and plasticity requirements.

## GENERAL QUALIFICATIONS

This report has been prepared in order to aid in the evaluation of this property and to assist the architect and/or engineer in the design of this project. The scope of the project and location described herein, and my description of the project represents my understanding of the significant aspects relevant to soil and foundation characteristics. In the event that any changes in the design or location of the proposed facilities, as outlined in this report, are planned, I should be informed so the changes can be reviewed and the conclusions of this report modified or approved in writing by myself.

It is recommended that all construction operations dealing with earthwork and foundations be inspected by an experienced soil engineer to assure that the design requirements are fulfilled in the actual construction. If you wish, I would welcome the opportunity to review the plans and specifications when they have been prepared so that I may have the opportunity of commenting on the effect of soil conditions on the design and specifications.

The analysis and recommendations submitted in this report are based upon the data obtained from the soil borings and/or test pits performed at the locations indicated on the location diagram and from any other information discussed in the report. This report does not reflect any variations which may occur between these boring and/or test pits. In the performance of subsurface investigations, specific information is obtained at specific locations at specific times. However, it is a well-known fact that variations in soil and rock conditions exist on most sites between boring locations and also such situations as groundwater conditions vary from time to time. The nature and extent of variations may not become evident until the course of construction. If variations then appear evident, it will be necessary for a reevaluation of the recommendations of this report after performing on-site observations during the construction period and noting the characteristics of any variations.