

BOMARC SITE
100 OLD COUNTRY ROAD
WESTHAMPTON, NEW YORK
NYSDEC SITE: 152262

UNDERGROUND INJECTION CONTROL CHARACTERIZATION REPORT

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**UNDERGROUND INJECTION CONTROL
CHARACTERIZATION REPORT
BOMARC SITE, WESTHAMPTON, NEW YORK**

TABLE OF CONTENTS	PAGE
1.0 INTRODUCTION.....	1
1.1 Site Description.....	1
2.0 PROJECT BACKGROUND	2
2.1 Site History	2
2.2 Previous Investigations.....	2
2.2.1 PWGC UIC Structure Sampling and Remediation (January 2014)	2
2.2.2 BOMARC UIC Data Summary and UIC Remedial Cost Estimate (August 12, 2021)	3
2.3 Regional Geology/Hydrogeology.....	4
2.4 Site Features	4
2.5 Current and Future Site Use.....	4
3.0 FIELD INVESTIGATION.....	5
3.1 Geophysical Survey	5
3.1.1 Geophysical Methodology	5
3.1.2 Geophysical Findings.....	5
3.2 Characterization of UIC Structures	6
3.2.1 UIC Sampling Methodology.....	6
3.2.2 UIC Sample Analysis	7
3.2.3 UIC Sample Analytical Results.....	7
3.3 Former Burn Pit investigation	8
3.3.1 Investigation Findings.....	8
3.3.2 Burn Pit Sampling Methodology	8
3.3.3 Burn Pit Sample Analysis.....	9
3.3.4 Burn Pit Sample Analytical Results	9
4.0 CONCLUSIONS AND RECOMMENDATIONS	10
4.1 Conclusions.....	10
4.2 Recommendations.....	12
5.0 REFERENCES.....	13
6.0 LIMITATIONS.....	14



**UNDERGROUND INJECTION CONTROL
CHARACTERIZATION REPORT
BOMARC SITE, WESTHAMPTON, NEW YORK**

FIGURES

FIGURE 1	Site Location Map
FIGURE 2	Site Plan

TABLES

TABLE 1	Soil Sample Analytical Results – VOCs
TABLE 2	Soil Sample Analytical Results – SVOCs
TABLE 3	Soil Sample Analytical Results – Metals
TABLE 4	Soil Sample Analytical Results – PCBs

APPENDICES

APPENDIX A	Geophysical Survey Report
APPENDIX B	Laboratory Analytical Reports





1.0 INTRODUCTION

The Suffolk County Department of Health Services (SCDHS) has retained P.W. Grosser Consulting, Inc. (PWGC) to prepare this Characterization Report for underground injection control (UIC) structures at the BOMARC site in Westhampton, New York. Work was conducted in accordance with PWGC's August 2022 Interim Remedial Measure (IRM) Work Plan for the site, and in substantial conformance with the New York State Department of Environmental Conservation's (NYSDEC's) Division of Environmental Remediation's (DER's) Technical Guidance for Site Investigation and Remediation, May 2010 (DER-10).

1.1 Site Description

The Site is located at 100 Old Country Road, in the hamlet of Westhampton, New York. The Site is in the Town of Southampton, Suffolk County. The property is identified in the Suffolk County Tax Map as: 0900-331.00-01.00-Lot Nos. 001.100, and 002.000 through 015.000.

The Site measures approximately 186 acres in size and is located to the north of Old Country Road and west of Old Westhampton Road. The property includes 56 structures which originally housed BOMARC missiles, along with other structures utilized by Suffolk County. Large parking lots are also present at the site along with a police firing range. The Site is bounded to the north by undeveloped pine barrens, to the east by commercial/industrial land uses, to the south by Old Country Road, and to the west by recent residential development.

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



2.0 PROJECT BACKGROUND

2.1 Site History

The former BOMARC Missile Base was operated by the US Air Force as one of 10 BOMARC facilities protecting the east coast from a potential Soviet air attack from 1959 until it was decommissioned in 1964. Fifty-six nuclear-tipped missiles were located at this facility which utilized tritium and required frequent maintenance (every 90 days). After decommissioning, the property was turned over to Suffolk County as surplus property in the 1960s.

2.2 Previous Investigations

The following investigations pertinent to this UIC IRM Work Plan were performed at the Site to determine if past activities had impacted the sediment within onsite UIC structures. Results of these Site investigations confirmed the presence of VOCs, SVOCs, metals above SCDHS Action Levels, and PCBs above New York State Department of Environmental Conservation (NYSDEC) Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) standards in sediments within UIC structures, requiring remediation at the Site.

2.2.1 PWGC UIC Structure Sampling and Remediation (January 2014)

During the Suffolk County Department of Public Works (SCDPW) UIC Maintenance Program, PWGC investigated the BOMARC property and identified several structures associated with the sitewide sanitary system, as well as several floor drains within the buildings on the property. Each of the accessible UIC structures were sampled in accordance with the SCDHS Standard Operating Procedure (SOP) 9-95 and analyzed for VOCs, SVOCs and metals. Two structures, UIC001 (primary cesspool of the sitewide sanitary system) and UIC004 (Building C0205 floor drain) exhibited levels of SVOCs and/or metals above SCDHS Action Levels.

The sitewide sanitary system consists of the primary cesspool, a septic tank, six junction boxes and three subsurface secondary cesspools located southwest of the primary cesspool. Correspondence between PWGC, SCDHS, and SCDPW personnel concluded that the sitewide sanitary system, due to its elevated levels of chromium (370 mg/kg) in the primary cesspool, should be remediated. In addition, SCDHS indicated that the floor drain located in Building C0205 should be remediated prior to abandonment.

Remediation of the sitewide sanitary system was performed in March 2014. Remedial effort included the following:

- Removal of impacted sediment from six solid bottom junction boxes throughout the site.
- Characterization samples collected from three overflow cesspools associated with the sitewide sanitary system. No impact above SCDHS Action Levels were detected in samples collected from the structures.
- Removal of impacted sediment from building C0205 floor drain.

- The March 2014 remediation was scheduled to include the sitewide sanitary system septic tank and primary cesspool; however, this was not completed at that time due to a water leak.

2.2.2 BOMARC UIC Data Summary and UIC Remedial Cost Estimate (August 12, 2021)

The SCDHS, under the directive of Resolution 1065-2018 of the Suffolk County Legislature, performed a limited site evaluation at the Site. A total of 25 locations were deemed areas of concern (AOC) based upon a walk-through and a review of historic information from department records. Impacts to UIC structures included presence of VOCs, SVOCs, heavy metals and polychlorinated biphenyls (PCBs) in exceedance of SCDHS Action Levels and/or NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) in seven UIC structures and/or discharge points. As there are no cleanup criteria for PCBs in the SCDHS SOP 9-95, PCB results were compared to NYSDEC UUSCOs. The presence of PCBs, and possibly other contaminants, may be indicative of legacy impacts occurring prior to Suffolk County ownership.

Summary of UIC Data for UICs Requiring Remediation

Structure ID	Description	Sample Date	Suffolk County SOP-9-95 Exceedance			UUSCOs Exceedance for PCBs?	Total PCBs (ppm)
			VOCs	SVOCs	Metals		
S-2	Storm Drain	4/30/19	No	No	No	Yes	4.3
S-3	Septic Tank	4/30/19	Yes	No	No	Yes	0.598
S-16	Floor Drain	5/1/19	Yes	Yes	Yes	Yes	593
S-16A*	Washout Area	N/A	N/A	N/A	N/A	N/A	N/A
S-17	Floor Drain	5/1/19	No	Yes	Yes	Yes	9,560
S-17OF	Floor Drain Discharge Point	3/23/21	No	No	No	Yes	1.59
S-17DW	Floor Drain Discharge Drywell	N/A	N/A	N/A	N/A	N/A	N/A
S-18	Floor Drain	5/1/19	No	No	No	Yes	7.11
S-22	Former Burn Pits	5/1/19	Yes	No	Yes	Yes	6.07

*Not sampled as part of the 2019/2021 sampling events.

2.3 Regional Geology/Hydrogeology

The geologic setting of Long Island is well documented and consists of crystalline bedrock composed of schist and gneiss overlain by layers of unconsolidated deposits. Immediately overlying the bedrock is the Raritan Formation, consisting of the Lloyd sand confined by the Raritan clay Member. The Lloyd sand is an aquifer and consists of discontinuous layers of gravel, sand, sandy and silty clay, and solid clay. The Raritan clay is a solid and silty clay with that is gray, red or white in color with few lenses of sand and gravel and abundant lignite and pyrite.

Above the Raritan Clay lies the Magothy Formation. The Magothy aquifer consists of layers of fine to coarse sand of moderate to high permeability, with inter-bedded lenses of silt and clay of low permeability resulting in areas of preferential horizontal flow. Therefore, this aquifer generally becomes more confined with depth. The Magothy Formation is overlain by the Upper Glacial deposits which contains the Upper Glacial aquifer. The Upper Glacial aquifer is the water-table aquifer at this location and is comprised of medium to coarse sand and gravel with occasional thin lenses of fine sand and brown clay. This aquifer extends from the water table to the top of the Magothy and, therefore, is hydraulically connected to the Magothy aquifer.

The aquifer of concern at the former BOMARC site is the Upper Glacial aquifer which is an unconsolidated mixture of sand and gravel. The Upper Glacial aquifer is approximately 100 feet thick (saturated zone) at the site, and has an estimated average horizontal hydraulic conductivity (permeability) of 270 feet/day and a vertical hydraulic conductivity of 27 feet/day (Franke & Cohen, 1972).

Clay layers, such as the Gardiners clay and the “20-Foot-clay,” where present, may act as local confining units, separating the Upper Glacial aquifer from the underlying Magothy aquifer which is the principal source of drinking water in Suffolk County. These clay layers extend throughout much of the south shore of Long Island and are likely present just south of the site.

2.4 Site Features

The project site elevation is approximately 50 feet above mean sea level and is generally level, with the exception of several earthen berms at the northern end of the property associated with the police firing range. The site is developed with multiple warehouse and office buildings used by Suffolk County, 56 former BOMARC missile bunkers currently used for storage, and a police firing range. There are multiple unpaved parking areas throughout the property used as vehicle impound lots by Suffolk County

2.5 Current and Future Site Use

The site is currently utilized by Suffolk County as a police training facility/firing range, police impound lot, and county storage area. Significant changes in the use of the site are not planned for the near future.

3.0 FIELD INVESTIGATION

Due to the time elapsed since the previous sampling event (2019), additional characterization sampling was performed on UIC structures previously identified as impacted. Additionally, a geophysical survey was performed to determine whether additional overflow UIC structures are connected to the UIC structures previously identified as impacted.

3.1 Geophysical Survey

On December 21, 2022 PWGC and Advanced Geological Services (AGS) of Malvern, Pennsylvania mobilized to the subject property to perform a geophysical survey. The purpose of the geophysical survey was to determine the absence/presence of subsurface anomalies at the subject property. Descriptions of the geophysical methods are described below.

3.1.1 Geophysical Methodology

AGS utilized a Survey Systems Inc. SIR-3000 with a 400 Mhz antenna to perform a ground penetrating radar (GPR) survey. GPR uses high frequency pulsed electromagnetic waves to acquire subsurface information. Energy is propagated downward into the ground and is reflected back to the surface from boundaries at which there are electrical property contrasts. Penetration is the greatest in unsaturated sands and fine gravels and dry, well cured concrete. Clayey, highly saline or saturated soils, areas covered by steel reinforced concrete, foundry slag, uncured concrete, or other highly conductive materials significantly reduce depth penetration of the GPR signal. The 400 MHz antenna can achieve depths of penetration up to about 20 feet, but this depth may be greatly reduced due to site-specific conditions as discussed above.

3.1.2 Geophysical Findings

The geophysical survey focused on potential additional UIC structures in the vicinity of buildings 206 and 216. Geophysical findings are as follows:

Building 216

A trench drain (S-16) is located in the garage and surface debris is located across much of the garage area. AGS and PWGC opened the trench drain and observed two pipes running west, meeting a catch basin/pit along the wall. The catch basin was opened and a single approximately two-foot diameter concrete pipe was observed continuing west into the next room. GPR data were collected in the room, and the pipe was determined to turn south exiting the building. The pipe was observed in the GPR data running south and turning upward truncating as a vertical pipe extending approximately three feet above grade located next to an abandoned piece of industrial equipment. Each portion of discharge pathway associated with trench drain S-16 (i.e., the trench drain, the catch basin, and the concrete piping) appeared to be solid bottom, non-leaching structures. The purpose of the vertical piping is unknown; however, no pathway for trench drain S-16 to discharge to the subsurface was identified.

A second smaller pipe was observed in the GPR data collected at Building 216. The pipe was identified running south away from a sink, exiting the building, and running to a small washout (S-16A) located in the trees.

Building 206

A dry-well is visible at ground surface, located northwest of Building 206. GPR data were collected around the dry-well (S-17DW) and a pipe was observed trending south, connecting to the floor drains in Building 206.

Geophysical Summary

Based on the findings of the geophysical survey, the following structures were added to the sampling scope:

- The washout area where the piping from the sink in Building 216 was determined to discharge (S-16A).
- The structure to the north of Building 206 that was determined to be connected to floor drain S-17 (S-17DW).

No additional UIC structures were identified.

A copy of the Geophysical Survey Report, including further detail regarding the methodology and findings, is included in **Appendix A**.

3.2 Characterization of UIC Structures

3.2.1 UIC Sampling Methodology

On December 21, 2022 and March 30 2022, PWGC mobilized to the subject property to complete characterization sampling. Characterization samples were collected from the following structures:

- Storm drain S-2
- Septic tank S-3
- Floor drains S-16, S-18
- Drywell S-17DW
- Washout area S-16A

Samples were retrieved from the base of UIC structures utilizing a stainless-steel hand auger. A location S-16A, surficial soil samples were collected from 0-6 inches below grade and 6 to 12 inches below grade.

Prior to sampling and between sampling locations, equipment was decontaminated using a laboratory-grade glassware detergent and tap water scrub to remove contamination, then generously rinsed with tap water and then distilled water.

Soil samples collected for volatile organic analysis were collected directly from the hand auger bucket. The remaining sample volumes were transferred to a stainless-steel bowl and homogenized. Once homogenized, samples were transferred to laboratory supplied glassware and packed in a cooler with ice and shipped under proper chain-of-custody procedures to York Analytical Laboratories of Stratford, Connecticut, a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory, for analysis following NYSDEC ASP–Category A Deliverables.

3.2.2 UIC Sample Analysis

Samples were collected from each UIC structure listed above as detailed in Section 3.1, and were analyzed for the following in accordance with Suffolk County Department of Health (SCDHS) Standard Operating Procedure (SOP) 9–95 (August 2010):

- VOCs by USEPA Method 8260 (SCDHS List)
- SVOCs by USEPA Method 8270 (SCDHS List)
- Metals by USEPA Method 6010/7471 (SCDHS List plus selenium)
- PCBs by USEPA Method 8082

3.2.3 UIC Sample Analytical Results

UIC sample analytical results were compared to the Action Levels specified in SCDHS Article 12 – SOP 9–95 (August 2010) for VOCs, SVOCs and metals, and NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) for PCBs.

Storm drain S-2 and floor drain S-18 did not contain VOCs, SVOCs or metals at concentrations exceeding SCDHS Action Levels, or PCBs exceeding NYSDEC UUSCOs. Due to a laboratory error, sample S-18 was not analyzed for PCBs; however, a previous sample collected from this structure by SCDHS in 2019 (see Section 2.2.2) contained total PCBs at concentrations exceeding the NYSDEC UUSCO.

Septic tank S-3 contained multiple VOCs and metals at concentrations exceeding SCDHS Action Levels. Several additional VOCs and metals were detected at concentration exceeding SCDHS Cleanup Objectives. Total PCBs were detected at a concentration exceeding the NYSDEC UUSCO. SVOCs were not detected at concentrations exceeding SCDHS Action Levels or Cleanup Objectives.

Floor drain s-16 contained multiple SVOCs and metals at concentrations exceeding SCDHS Action Levels. Total PCBs were detected at a concentration exceeding the NYSDEC UUSCO. VOCs were not detected at concentrations exceeding SCDHS Action Levels or Cleanup Objectives.

Drywell s-17DW contained multiple SVOCs at concentrations exceeding SCDHS Action Levels. Total PCBs were detected at a concentration exceeding the NYSDEC UUSCO. VOCs and metals were not detected at concentrations exceeding SCDHS Action Levels or Cleanup Objectives.

For washout area S-16A, initially, only the 0-6 inch sample was submitted for analysis. The 0-6 inch sample contained PCBs at concentrations exceeding NYSDEC UUSCOs. VOCs, SVOCs and metals were not detected at concentrations exceeding their respective SCDHS Action Levels. Based on these results, the 6-12 inch sample from location S-16A was analyzed for PCBs. Sample S-16A at 6-12 inches also contained PCB impact exceeding NYSDEC UUSCOs. The difference in PCB concentrations from 0-6 inches to 6-12 inches was minimal.

Analytical results are detailed in **Tables 1** through **Table 4** and the complete laboratory analytical report is included in **Appendix B**.

3.3 Former Burn Pit investigation

3.3.1 Investigation Findings

On December 20, 2022, PWGC mobilized to the subject property to investigate and collect characterization samples from the former fireworks burn pits. The former fireworks burn pits consist of two below grade concrete structures (~10 foot diameter x 10 feet deep) situated on the northwestern portion of the property (FP001 and FP002). The location of the Former fireworks burn pits are provided on Figure 3. The burn pits were utilized to dispose of illegal fireworks in a safe manner. The Suffolk County Department of Public Works (SCDPW) reportedly removed the burn pits and backfilled the area.

To investigate and sample the former burn pits, an excavator was used to perform exploratory excavation to locate the structures. Once located, fill material from within the structures was removed and stockpiled to evaluate whether the concrete bottoms of the structures had been removed. Both structures appeared to have solid bottoms as soils encountered approximately seven feet below grade were saturated (depth to groundwater is approx. 40 feet below grade) with residual firework material and a strong fireworks odor observed.

3.3.2 Burn Pit Sampling Methodology

Samples were retrieved from the base of each burn pit (FP001 @ 8 feet below grade, and FP002 at 9 feet below grade) utilizing a stainless-steel hand auger. Prior to sampling and between sampling locations, equipment was decontaminated using a laboratory-grade glassware detergent and tap water scrub to remove contamination, then generously rinsed with tap water and then distilled water.

Soil samples collected for volatile organic analysis were collected directly from the hand auger bucket. The remaining sample volumes were transferred to a stainless-steel bowl and homogenized. Once homogenized, samples were transferred to laboratory supplied glassware and packed in a cooler with ice and shipped under proper chain-of-custody procedures to York, a NYSDOH ELAP certified laboratory, for analysis following NYSDEC ASP-Category A Deliverables.

3.3.3 *Burn Pit Sample Analysis*

Samples were collected from each structure listed above as detailed in Section 3.1, and were analyzed for the following in accordance with Suffolk County Department of Health (SCDHS) Standard Operating Procedure (SOP) 9-95 (August 2010):

- VOCs by USEPA Method 8260 (SCDHS List)
- SVOCs by USEPA Method 8270 (SCDHS List)
- Metals by USEPA Method 6010/7471 (SCDHS List plus selenium)
- PCBs by USEPA Method 8082

3.3.4 *Burn Pit Sample Analytical Results*

UIC sample analytical results were compared to the Action Levels specified in SCDHS Article 12 - SOP 9-95 (August 2010) for VOCs, SVOCs and metals, and NYSDEC UUSCOs for PCBs.

The sample collected from burn pit FP001 contained multiple petroleum related VOCs and metals (barium & lead) at concentrations exceeding SCDHS Action Levels. Several additional VOCs and metals were detected at concentrations exceeding SCDHS Cleanup Objectives. SVOCs were not detected at concentrations exceeding SCDHS Action Levels or Cleanup Objectives; PCBs were not detected above the laboratory method detection limit.

The sample collected from burn pit FP002 contained metals (barium & chromium) at concentrations exceeding SCDHS Action Levels. Several additional metals were detected at concentrations exceeding SCDHS Cleanup Objectives. VOCs and SVOCs were not detected at concentrations exceeding SCDHS Action Levels or Cleanup Objectives; PCBs were not detected above the laboratory method detection limit.

Analytical results are detailed in **Tables 1** through **Table 4** and the complete laboratory analytical report is included in **Appendix B**.

4.0 CONCLUSIONS AND RECOMMENDATIONS

PWGC performed UIC characterization at the subject property in accordance with PWGC's August 2022 IRM Work Plan. The scope of work included:

- Geophysical survey
- UIC sampling
- Former burn pit investigation

4.1 Conclusions

Based on the results of the UIC characterization investigation, PWGC offers the following conclusions:

- A geophysical survey consisting of a GPR investigation focused on Buildings 206 and 216 was performed. The GPR investigation identified:
 - A washout to the southwest of Building 216 where the piping from a sink in Building 216 was determined to discharge (S-16A).
 - One drywell north of Building 206 (S-17DW) that appears to be connected to a floor drain within Building 206 (S-17) that was previously identified as impacted.
 - No additional previously unidentified UIC structures were located by the GPR investigation.
- Characterization samples were collected from storm drain S-2, septic tank S-3, floor drains S-16, S-18, and drywell S-17DW. Samples were analyzed for VOCs, SVOCs, metals and PCBs. Sample results identified the following:
 - Storm drain S-2 did not contain impact at concentrations exceeding SCDHS Action Levels or NYSDEC UUSCOs.
 - Septic tank S-3 contained multiple VOCs and metals at concentrations exceeding SCDHS Action Levels and total PCBs were at a concentration exceeding the NYSDEC UUSCO.
 - Floor drain s-16 contained multiple SVOCs and metals at concentrations exceeding SCDHS Action Levels and total PCBs at a concentration exceeding the NYSDEC UUSCO.
 - Floor drain S-18 did not contain VOCs, SVOCs or metals at concentrations exceeding SCDHS Action Levels. Due to a laboratory error, sample S-18 was not analyzed for PCBs; however, a previous sample collected from this structure by SCDHS in 2019 (see Section 2.2.2) contained total PCBs at concentrations exceeding the NYSDEC UUSCO.
 - Drywell s-17DW contained multiple SVOCs at concentrations exceeding SCDHS Action Levels and total PCBs at a concentration exceeding the NYSDEC UUSCO.
 - Washout S-16A contained PCBs at concentrations exceeding the NYSDEC UUSCO in the 0-6 inch and 6-12 inch samples. VOCs, SVOCs and metals were not detected at concentrations exceeding their respective SCDHS Action Levels.

- Based on investigation of the former fireworks burn pits, both pits appear to have solid bottoms. Samples collected from fill material within the two pits contained VOCs (FP001 only) and metals (FP001 & FP002) at concentrations exceeding SCDHS Action Levels.

Sampling performed to date along with regulatory exceedances are summarized below:

Structure ID	Description	Sample Date	Suffolk County SOP-9-95 Exceedance			UUSCOs Exceedance for PCBs?	Total PCBs (ppm)
			VOCs	SVOCs	Metals		
S-2	Storm Drain	4/30/19	No	No	No	Yes	4.3
		12/21/22	No	No	No	No	ND
S-3	Septic Tank	4/30/19	Yes	No	No	Yes	0.598
		12/21/22	Yes	No	Yes	Yes	0.285
S-16	Floor Drain	5/1/19	Yes	Yes	Yes	Yes	593
		12/21/22	No	Yes	Yes	Yes	326
S-16A (0-6")	Washout Area	3/30/23	No	No	No	Yes	0.525
S-16A (6-12")	Washout Area	3/30/23	N/A	N/A	N/A	Yes	0.512
S-17	Floor Drain	5/1/19	No	Yes	Yes	Yes	9,560
S-17OF	Floor Drain Discharge Point	3/23/21	No	No	No	Yes	1.59
S-17DW	Floor Drain Discharge Drywell	12/21/22	No	Yes	No	Yes	0.531
S-18	Floor Drain	5/1/19	No	No	No	Yes	7.11
		12/21/22	No	No	No	N/A	N/A
S-22	Former Burn Pits	5/1/19	Yes	No	Yes	Yes	6.07
FP001	Former Burn Pit	12/20/22	Yes	No	Yes	No	ND
FP002	Former Burn Pit	12/20/22	No	No	Yes	No	ND

4.2 Recommendations

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

- Based on sample results from SCDHS sampling in 2019 (see Section 2.2.2) and sampling performed as part of this characterization, structures S-2, S-3, S-16, S-17, S-17DW and S-18 and washout area S-16A should be remediated in accordance with SCDHS UIC program procedures and PWGC's August 2022 IRM Work Plan.
- As part of the remedial effort, floor drains S-16, S-17, and S-18 should be backfilled and permanently sealed.
- Fill material containing impact exceeding SCDHS Action Levels within the fireworks burn pits should be removed and disposed of at a properly permitted facility. Prior to backfilling the burn pits, the concrete bottoms should be removed to allow for drainage.
- Generated wastes should be stockpiled onsite for waste characterization prior to sampling and disposed of at a properly permitted facility in accordance with PWGC's August 2022 IRM Work Plan and federal, state and local regulations. A Self-Implementing Cleanup Plan should be submitted to USEPA to allow for low level PCB-impacted wastes to be segregated and disposed of as non-Toxic Substances Control Act (TSCA) waste. The Self-Implementing Cleanup Plan will include provisions for the remediation of each impacted structure identified in this report.
- Remedial work should be performed in accordance with the Quality Assurance Project Plan (QAPP), Health and Safety Plan (HASP), and waste manifest/reporting requirements specified in PWGC's August 2022 IRM Work Plan.
- Based on current regulations, no additional remediation for UIC structures at the site is anticipated following completion of the remedial effort described above.



5.0 REFERENCES

6 NYCRR Part 375 Environmental Remediation Programs Subparts 375-1 to 375-4 and 375-6.

Commissioners Policy CP-51, Soil Cleanup Guidance, NYSDEC, October 21, 2010.

Standard Operating Procedure for the Administration of Article 12 of the Suffolk County Sanitary Code, SOP 9-95, Pumpout and Soil Cleanup Criteria, SCDHS, August 2010.

Technical Guidance for Site Investigation and Remediation (DER-10), NYSDEC, May 3, 2010.

Underground Injection Control Structure Remediation, LAD 61 BOMARC, Westhampton, NY, PWGC, January 2014

Appendix A, Suffolk County Resolution No. 1065-2018 (contains 2020 SCDHS sample data)

BOMARC UIC Data Summary and UIC Remedial Cost Estimate, SCDHS, August 2021

Underground Injection Control Interim Remedial Measure Work Plan, BOMARC Site, 100 Old County Road, Westhampton, New York, NYSDEC Site 152262, PWGC, August 2022



6.0 LIMITATIONS

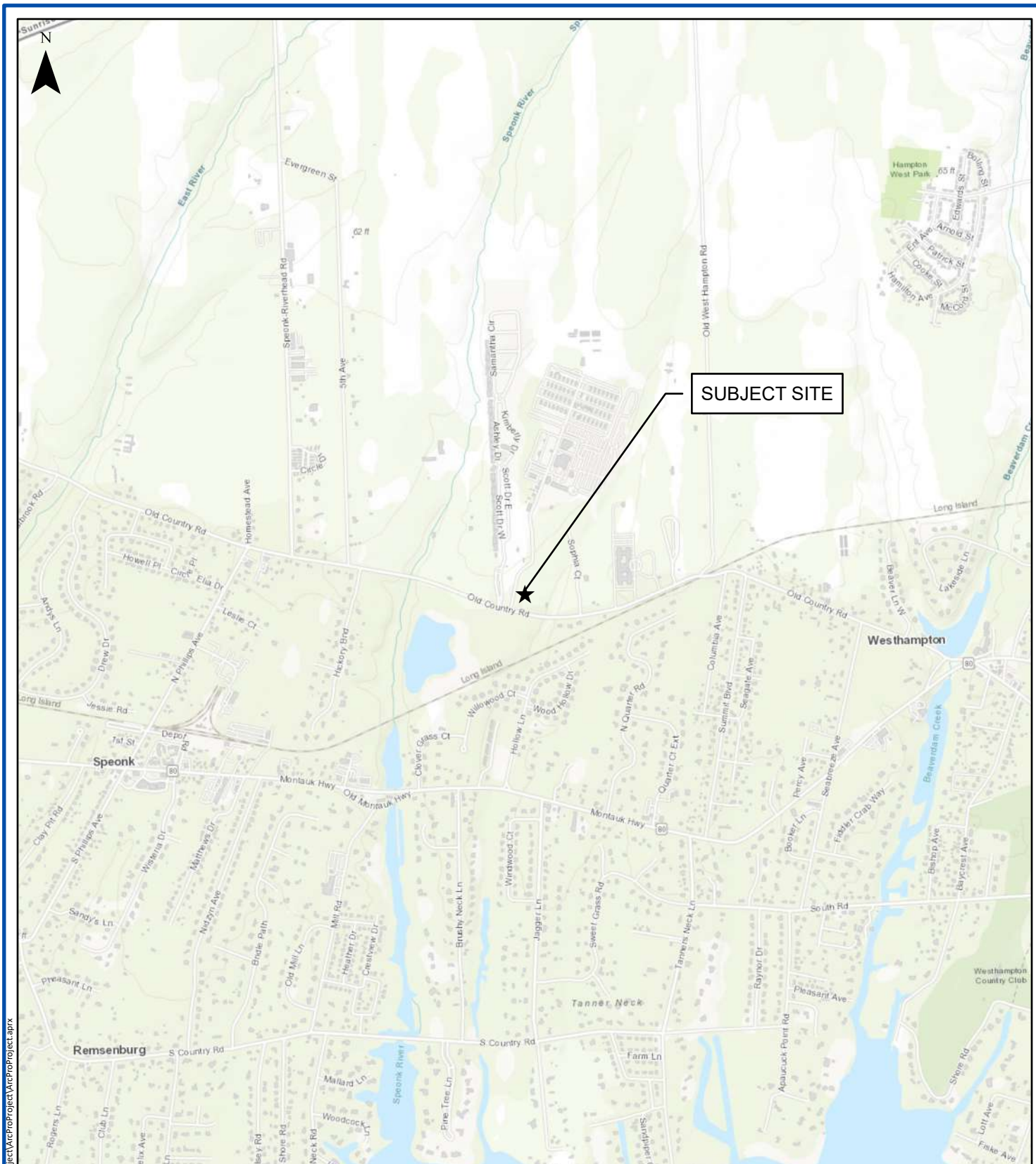
The conclusions presented in this report are professional opinions based on the data described in this report. These opinions have been arrived at in accordance with currently accepted engineering and hydrogeologic standards and practices applicable to this location, and are subject to the following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

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



FIGURES





Document Path: W:\Projects\SHD2201\ArcProProject\ArcProProject\ArcProProject.aprx



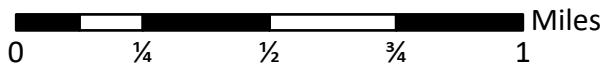
PWGC
CLIENT DRIVEN SOLUTIONS

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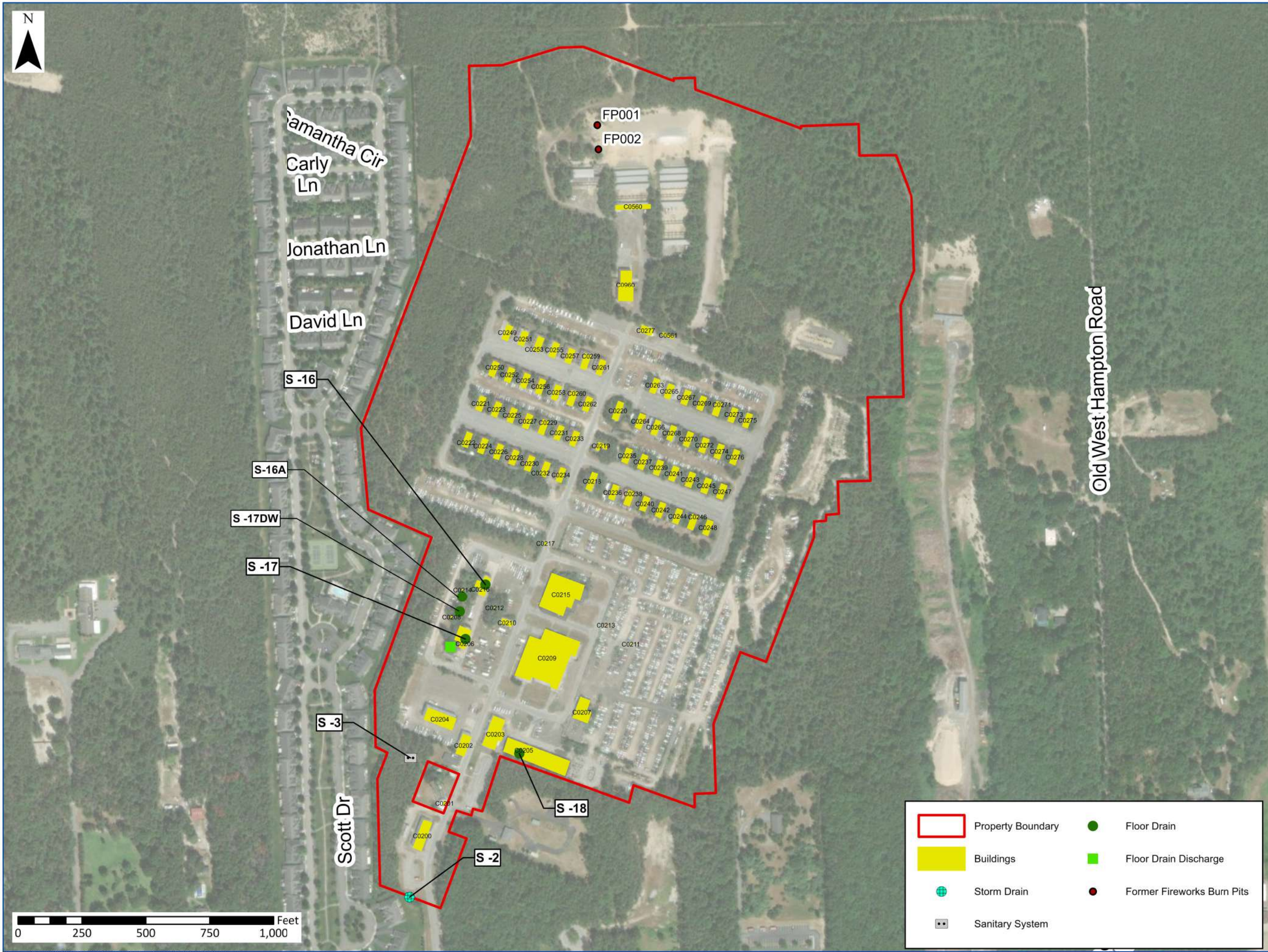
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SITE LOCATION

98 Old Country Road
Westhampton, NY



Project:	SHD2201
Date:	4/4/2022
Designed by:	JP
Drawn by:	OA
Approved by:	JP
Figure No:	1



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DRAWING PREPARED FOR:

REVISION	DATE	INITIAL	COMMENTS
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DRAWING INFORMATION:

Project:	SHD2201	Designed by:	JP
Date:	4/21/2023	Drawn by:	OA
Scale:	AS SHOWN	Approved by:	JP

Site Plan

98 Old Country Road
Westhampton, NY

FIGURE NO:

TABLES



Table 1
Soil Sample Analytical Results - VOCs
Former BOMARC Site

LOCATION LAB SAMPLE ID SAMPLE DATE	CAS Number	SCDHS Action Level	SCDHS Cleanup Objective	Units	S-2 2211187-05 12/21/2022	S-3 2211187-04 12/21/2022	S-16 2211187-01 12/21/2022	S-16A (0-6") L2316688-01 3/30/2023	S-17 DW 2211187-02 12/21/2022	S-18 2211187-03 12/21/2022	FP001_9ft 2211175-01 12/20/2022	FP002_8ft 2211175-02 12/20/2022
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	630-20-6	600	300	ug/kg	2.6 U	1400 U	5 U	0.72 U	2.9 U	2.7 U	420 U	300 U
1,1,1-Trichloroethane	71-55-6	1400	700	ug/kg	2.6 U	1400 U	5 U	0.72 U	2.9 U	2.7 U	420 U	300 U
1,1,2,2-Tetrachloroethane	79-34-5	800	400	ug/kg	2.6 U	1400 U	5 U	0.72 U	2.9 U	2.7 U	420 U	300 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	12000	6000	ug/kg	2.6 U	1400 U	5 U	5.7 U	2.9 U	2.7 U	420 U	300 U
1,1,2-Trichloroethane	79-00-5	200	100	ug/kg	2.6 U	1400 U	5 U	1.4 U	2.9 U	2.7 U	420 U	300 U
1,1-Dichloroethane	75-34-3	600	300	ug/kg	2.6 U	1400 U	5 U	1.4 U	2.9 U	2.7 U	420 U	300 U
1,1-Dichloroethylene	75-35-4	600	300	ug/kg	2.6 U	1400 U	5 U	1.4 U	2.9 U	2.7 U	420 U	300 U
1,1-Dichloropropylene	563-58-6	200	100	ug/kg	2.6 U	1400 U	5 U	0.72 U	2.9 U	2.7 U	420 U	300 U
1,2,3-Trichlorobenzene	87-61-6	17000	8300	ug/kg	2.6 U	1400 U	5 U	2.9 U	2.9 U	2.7 U	420 U	300 U
1,2,3-Trichloropropane	96-18-4	100	50	ug/kg	2.6 U	1400 U	5 U	2.9 U	2.9 U	2.7 U	420 U	300 U
1,2,4,5-Tetramethylbenzene	95-93-2	18000	8800	ug/kg	2.6 U	17000 D	5 U	2.9 U	2.9 U	2.7 U	12000 D	1300 D
1,2,4-Trichlorobenzene	120-82-1	17000	8300	ug/kg	2.6 U	8600 D	5 U	2.9 U	2.9 U	2.7 U	420 U	300 U
1,2,4-Trimethylbenzene	95-63-6	7200	3600	ug/kg	2.6 U	41000 D	5 U	2.9 U	2.9 U	2.7 U	61000 D	2500 D
1,2-Dibromo-3-chloropropane	96-12-8	100	50	ug/kg	2.6 U	1400 U	5 U	4.3 U	2.9 U	2.7 U	420 U	300 U
1,2-Dibromoethane	106-93-4	600	300	ug/kg	2.6 U	1400 U	5 U	1.4 U	2.9 U	2.7 U	420 U	300 U
1,2-Dichlorobenzene	95-50-1	2200	1100	ug/kg	15	1300000 D	5 U	2.9 U	2.9 U	2.7 U	420 U	300 U
1,2-Dichloroethane	107-06-2	100	50	ug/kg	2.6 U	1400 U	5 U	1.4 U	2.9 U	2.7 U	420 U	300 U
1,2-Dichloropropane	78-87-5	100	50	ug/kg	2.6 U	1400 U	5 U	1.4 U	2.9 U	2.7 U	420 U	300 U
1,3,5-Trimethylbenzene	108-67-8	16800	8400	ug/kg	2.6 U	16000 D	5 U	2.9 U	2.9 U	2.7 U	20000 D	1400 D
1,3-Dichlorobenzene	541-73-1	4800	2400	ug/kg	2.6 U	19000 D	5 U	2.9 U	2.9 U	2.7 U	420 U	300 U
1,3-Dichloropropane	142-28-9	600	300	ug/kg	2.6 U	1400 U	5 U	2.9 U	2.9 U	2.7 U	420 U	300 U
1,4-Dichlorobenzene	106-46-7	3600	1800	ug/kg	6.3	410000 D	5 U	2.9 U	2.9 U	2.7 U	420 U	300 U
1,4-Dioxane	123-91-1	NS	NS	ug/kg	52 U	28000 U	100 U	NA	57 U	54 U	8400 U	6100 U
2,2-Dichloropropane	594-20-7	600	300	ug/kg	2.6 U	1400 U	5 U	2.9 U	2.9 U	2.7 U	420 U	300 U
2-Butanone	78-93-3	400	200	ug/kg	2.6 U	1400 U	5 U	3.2 U	2.9 U	2.7 U	420 U	300 U
2-Chloroethylvinyl ether	110-75-8	1000	500	ug/kg	10 U	5600 U	20 U	29 U	11 U	11 U	1700 U	1200 U
2-Chlorotoluene	95-49-8	5200	2600	ug/kg	2.6 U	1400 U	5 U	2.9 U	2.9 U	2.7 U	420 U	300 U
2-Hexanone	591-78-6	13000	6700	ug/kg	2.6 U	1400 U	5 U	14 U	2.9 U	2.7 U	420 U	300 U
2-Nitropropane	79-46-9	600	300	ug/kg	2.6 U	1400 U	5 U	7.2 U	2.9 U	2.7 U	420 U	300 U
4-Chlorotoluene	106-43-4	5200	2600	ug/kg	2.6 U	1400 U	5 U	2.9 U	2.9 U	2.7 U	420 U	300 U
4-Methyl-2-pentanone	108-10-1	1400	700	ug/kg	2.6 U	1400 U	7.5 U	14 U	2.9 U	2.7 U	420 U	300 U
Acetone	67-64-1	**	**	ug/kg	6.8 U	2800 U	25	79	21	13	840 U	610 U
Acrolein	107-02-8	100	50	ug/kg	5.2 U	2800 U	10 U	36 U	5.7 U	5.4 U	840 U	610 U
Acrylonitrile	107-13-1	100	50	ug/kg	2.6 U	1400 U	5 U	5.7 U	2.9 U	2.7 U	420 U	300 U
Allyl chloride	107-05-1	400	200	ug/kg	2.6 U	1400 U	5 U	7.2 U	2.9 U	2.7 U	420 U	300 U
Benzene	71-43-2	120	60	ug/kg	2.6 U	2100 JD	5 U	0.72 U	2.9 U	2.7 U	420 U	300 U
Bromobenzene	108-86-1	2800	1400	ug/kg	2.6 U	1400 U	5 U	2.9 U	2.9 U	2.7 U	420 U	300 U
Bromochloromethane	74-97-5	400	200	ug/kg	2.6 U	1400 U	5 U	2.9 U	2.9 U	2.7 U	420 U	300 U
Bromodichloromethane	75-27-4	4600	2300	ug/kg	2.6 U	1400 U	5 U	0.72 U	2.9 U	2.7 U	420 U	300 U
Bromoform	75-25-2	13000	6300	ug/kg	2.6 U	1400 U	5 U	5.7 U	2.9 U	2.7 U	420 U	300 U
Bromomethane	74-83-9	NS	NS	ug/kg	2.6 U	1400 U	5 U	NA	2.9 U	2.7 U	420 U	300 U
Carbon disulfide	75-15-0	5600	2800	ug/kg	2.6 U	1400 U	5 U	14 U	2.9 U	2.7 U	420 U	300 U
Carbon tetrachloride	56-23-5	1600	800	ug/kg	2.6 U	1400 U	5 U	1.4 U	2.9 U	2.7 U	420 U	300 U
Chlorobenzene	108-90-7	2200	1100	ug/kg	2.6 U	660000 D	5 U	0.72 U	2.9 U	2.7 U	420 U	300 U
Chlorodifluoromethane (Freon 22)	75-45-6	100	50	ug/kg	2.6 U	1400 U	5 U	7.2 U	2.9 U	2.7 U	420 U	300 U
Chloroethane	75-00-3	400	200	ug/kg	2.6 U	1400 U	5 U	2.9 U	2.9 U	2.7 U	420 U	300 U
Chloroform	67-66-3	800	400	ug/kg	2.6 U	1400 U	5 U	2.1 U	2.9 U	2.7 U	420 U	300 U
Chloromethane	74-87-3	100	50	ug/kg	2.6 U	1400 U	5 U	5.7 U	2.9 U	2.7 U	420 U	300 U
cis-1,2-Dichloroethylene	156-59-2	500	250	ug/kg	2.6 U	1400 U	5 U	1.4 U	2.9 U	2.7 U	420 U	300 U
cis-1,3-Dichloropropylene	10061-01-5	100	50	ug/kg	2.6 U	1400 U	5 U	0.72 U	2.9 U	2.7 U	420 U	300 U
cis-decahydronaphthalene	493-01-6	200000	100000	ug/kg	2.6 U	1400 U	5 U	7.2 U	2.9 U	2.7 U	420 U	1100 D
Dibromochloromethane	124-48-1	6200	3100	ug/kg	2.6 U	1400 U	5 U	1.4 U	2.9 U	2.7 U	420 U	300 U
Dibromomethane	74-95-3	400	200	ug/kg	2.6 U	1400 U	5 U	2.9 U	2.9 U	2.7 U	420 U	300 U
Dichlorodifluoromethane	75-71-8	600	300	ug/kg	2.6 U	1400 U	5 U	14 U	2.9 U	2.7 U	420 U	300 U
Ethyl Benzene	100-41-4	2000	1000	ug/kg	2.6 U	1400 U	5 U	1.4 U	2.9 U	2.7 U	3600 D	310 JD
Ethyl Ether	60-29-7	600	300	ug/kg	2.6 U	14000 U	50 U	2.9 U	2.9 U	2.7 U	4200 U	3000 U
Ethyl Methacrylate	97-63-7	4200	2100	ug/kg	2.6 U	1400 U	5 U	14 U	2.9 U	2.7 U	420 U	300 U
Ethyl tert-butyl ether (ETBE)	637-92-3	4000	2000	ug/kg	4.2 U	2200 U	8 U	2.9 U	4.6 U	4.3 U	670 U	480 U
Hexachlorobutadiene	87-68-3	54000	27000	ug/kg	2.6 U	1400 U	5 U	5.7 U	2.9 U	2.7 U	420 U	300 U
Hexachloroethane	67-72-1	22000	1100	ug/kg	2.6 U	1400 U	5 U	7.2 U	2.9 U	2.7 U	420 U	300 U
Iodomethane	74-88-4	200	100	ug/kg	2.6 U	1400 U	5 U	14 U	2.9 U	2.7 U	420 U	300 U
Isopropylbenzene	98-82-8	9400	4700	ug/kg	2.6 U	1400 U	5 U	1.4 U	2.9 U	2.7 U	4100 D	300 U
Limonene	5989-27-5	200000	100000	ug/kg	2.6 U	13000 D	5 U	2.6 U	2.9 U	2.7 U	420 U	300 U
Methyl Isothiocyanate (TIC)	556-61-6	600	300	ug/kg	52 U	28000 U	100 U	7.2 U	57 U	54 U	8400 U	6100 U
Methyl Methacrylate	80-62-6	1400	700	ug/kg	2.6 U	1400 U	5 U	7.2 U	2.9 U	2.7 U	420 U	300 U
Methyl tert-butyl ether (MTBE)	1634-04-4	200	100	ug/kg	2.6 U	1400 U	5 U	2.9 U	2.9 U	2.7 U	420 U	300 U
Methylene chloride	75-09-2	100	50	ug/kg	5.2 U	2800 U	10 U	7.2 U	5.7 U	5.4 U	840 U	610 U
Naphthalene	91-20-3	24000	12000	ug/kg	2.6 U	39000 D	5 U	5.7 U	2.9 U	2.7 U	9300 D	1100 JD
n-butyl acetate	123-86-4	20000	10000	ug/kg	2.6 U	1400 U	5 U	7.2 U	2.9 U	2.7 U	420 U	300 U
n-Butylbenzene	104-51-8	12000	5900	ug/kg	2.6 U	9600 D	5 U	1.4 U	2.9 U	2.7 U	14000 D	1300 D
n-Decane	124-18-5	200000	100000	ug/kg	2.6 U	30000 D	5 U	7.2 U	2.9 U	2.7 U	84000 D	9200 D
n-Hexane	110-54-3	150000	73000	ug/kg	2.6 U	1400 U	5 U	7.2 U	2.9 U	2.7 U	420 U	300 U
Nitrobenzene	98-95-3	100	50	ug/kg	2.6 U	1400 U	5 U	7.2 U	2.9 U	2.7 U	420 U	300 U
n-Nonane	111-84-2	200000	100000	ug/kg	2.6 U	16000 D	5 U	7.2 U	2.9 U	2.7 U	74000 D	5600 D
n-octane	111-65-9	200000	100000	ug/kg	2.6 U	1400 U	5 U	7.2 U	2.9 U	2.7 U	17000 D	1500 D
n-Propylbenzene	103-65-1	8000	4000	ug/kg	2.6 U	4000 D	5 U	1.4 U	2.9 U	2.7 U	9700 D	660 D
n-undecane	1120-21-4	200000	100000	ug/kg	2.6 U	8900 D	10	2.1 U	2.9 U	2.7 U	26000 D	6600 D
o-Xylene	95-47-6	3200	1600	ug/kg	2.6 U	2500 JD	5.2 U	1.4 U	2.9 U	2.7 U	10000 D	710 D
p- & m- Xylenes	179601-23-1	3200	1600	ug/kg	5.2 U	4500 JD	10 U	2.9 U	5.7 U	5.4 U	13000 D	860 JD
p-Diethylbenzene	105-05-5	52000	26000	ug/kg	2.6 U	23000 D	5 U	2.9 U	2.9 U	2.7 U	31000 D	2900 D
p-Ethyltoluene	622-96-8	9000	4500	ug/kg	2.6 U	21000 D	5 U	2.9 U	2.9 U	2.7 U	41000 D	2300 D
p-Isopropyltoluene	99-87-6	22000	11000	ug/kg	2.6 U	5000 D	5 U	0.26 U	2.9 U	2.7 U	7200 D	580 JD
sec-Butylbenzene	135-98-8	12000	5900	ug/kg	2.6 U	3300 D	5 U	1.4 U	2.9 U	2.7 U	7200 D	610 D
Styrene	100-42-5	9200	4600	ug/kg	2.6 U	1400 U	5 U	1.4 U	2.9 U	2.7 U	420 U	300 U
tert-Amyl methyl ether (TAME)	994-05-8	4000	2000	ug/kg	4.2 U	2200 U	8 U	2.9 U	4.6 U	4.3 U	670 U	480 U
tert-Butylbenzene	98-06-6	12000	5900	ug/kg	2.6 U	1400 U	5 U	2.9 U	2.9 U	2.7 U	420 U	300 U
Tetrachloroethylene	127-18-4	2600	1300	ug/kg	2.6 U	1400 U	5 U	0.72 U	2.9 U	2.7 U	420 U	300 U
Tetrahydrofuran	109-99-9	2200	1100	ug/kg	5.2 U	2800 U	10 U	5.7 U	5.7 U	5.4 U	840 U	610 U
Toluene	108-88-3	3000	1500	ug/kg	2.6 U	2300 JD	5 U	1.4 U	2.9 U	2.7 U	1200 D	540 JD
trans-1,2-Dichloroethylene	156-60-5	400	200	ug/kg	2.6 U	1400 U	5 U	2.1 U	2.9 U	2.7 U	420 U	300 U
trans-1,3-Dichloropropylene	10061-02-6	100	50	ug/kg	2.6 U	1400 U	5 U	1.4 U	2.9 U	2.7 U	420 U	300 U
trans-decahydronaphthalene	493-02-7	200000	100000	ug/kg	2.6 U	8000 D	5 U	7.2 U	2.9 U	2.7 U	13000 D	5200 D
Trichloroethylene	79-01-6	1000	500	ug/kg	2.6 U	1400 U	5 U	0.72 U	2.9 U	2.7 U	420 U	300 U
Trichlorofluoromethane	75-69-4	1600	800	ug/kg	2.6 U	1400 U	5 U	5.7 U	2.9 U	2.7 U	420 U	300 U
Vinyl acetate	108-05-4	600	300	ug/kg	2.6 U	1400 U	5 U	14 U	2.9 U	2.7 U	420 U	300 U
Vinyl Chloride	75-01-4											

Table 2
Soil Sample Analytical Results - SVOCs
Former BOMARC Site

LOCATION LAB SAMPLE ID SAMPLE DATE	CAS Number	SCDHS Action Level	SCDHS Cleanup Objective	Units	S-2 22L1187-05 12/21/2022	S-3 22L1187-04 12/21/2022	S-16 22L1187-01 12/21/2022	S-16A (0-6") L2316688-01 3/30/2023	S-17 DW 22L1187-02 12/21/2022	S-18 22L1187-03 12/21/2022	FP001_9ft 22L1175-01 12/20/2022	FP002_8ft 22L1175-02 12/20/2022
Semi-Volatile Organic Compounds												
Acenaphthene	83-32-9	200000	98000	ug/kg	46.2 U	99.6 U	678 D	34 J	227 U	47.3 U	77.6 U	64.2 U
Anthracene	120-12-7	200000	100000	ug/kg	83.3 JD	808 D	1310 D	40 J	293 JD	47.3 U	77.6 U	64.2 U
Benzo(a)anthracene	56-55-3	2000	1000	ug/kg	453 D	567 D	2860 D	120	2270 D	47.3 U	77.6 U	64.2 U
Benzo(a)pyrene	50-32-8	44000	22000	ug/kg	314 D	243 D	1640 D	140 J	1970 D	47.3 U	77.6 U	64.2 U
Benzo(b)fluoranthene	205-99-2	3400	1700	ug/kg	332 D	233 D	1730 D	200	1930 D	47.3 U	77.6 U	69.6 JD
Benzo(g,h,i)perylene	191-24-2	200000	100000	ug/kg	280 D	99.6 U	1360 D	83 J	1210 D	47.3 U	77.6 U	64.2 U
Benzo(k)fluoranthene	207-08-9	3400	1700	ug/kg	268 D	138 JD	1490 D	68 J	1720 D	47.3 U	77.6 U	64.2 U
Chrysene	218-01-9	2000	1000	ug/kg	522 D	718 D	3090 D	150	2300 D	47.3 U	77.6 U	67.6 JD
Dibenzo(a,h)anthracene	53-70-3	200000	100000	ug/kg	48.6 JD	99.6 U	388 JD	25 J	227 U	47.3 U	77.6 U	64.2 U
Fluoranthene	206-44-0	200000	100000	ug/kg	972 D	99.6 U	7120 D	360	2610 D	50.6 JD	77.6 U	136 D
Fluorene	86-73-7	200000	100000	ug/kg	46.2 U	1660 D	759 D	30 J	227 U	47.3 U	472 D	74.8 JD
Indeno(1,2,3-cd)pyrene	193-39-5	16000	8000	ug/kg	359 D	99.6 U	1610 D	98 J	1630 D	47.3 U	77.6 U	64.2 U
Phenanthrene	85-01-8	200000	100000	ug/kg	443 D	4450 D	6800 D	320	763 D	47.3 U	172 D	112 JD
Pyrene	129-00-0	200000	100000	ug/kg	1100 D	2250 D	7210 D	280	3200 D	47.6 JD	77.6 U	86 JD

Notes:
SCDHS Action Levels & Cleanup Objectives, SOP 9-95 Pumpout and Soil Cleanup Criteria, 8/2010
NS - No Standard
** - The Action Level for acetone will be determined on a case by case basis
U - The analyte was analyzed for, but was not detected above the reported sample quantification limit.
J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
D - Result is from an analysis that required a dilution
Yellow highlighted text denotes concentrations exceeding SCDHS Cleanup Objective
Orange highlighted text denotes concentrations exceeding SCDHS Acton Level

Table 3
Soil Sample Analytical Results - Metals
Former BOMARC Site

LOCATION LAB SAMPLE ID SAMPLE DATE	CAS Number	SCDHS Action Level	SCDHS Cleanup Objective	Units	S-2 22L1187-05 12/21/2022	S-3 22L1187-04 12/21/2022	S-16 22L1187-01 12/21/2022	S-16A (0-6") L2316688-01 3/30/2023	S-17 DW 22L1187-02 12/21/2022	S-18 22L1187-03 12/21/2022	FP001_9ft 22L1175-01 12/20/2022	FP002_8ft 22L1175-02 12/20/2022
Total Metals												
Arsenic	7440-38-2	30	6	mg/kg	1.39 U	2.99 U	27.8	3.73	2.6	1.96	12.5	26.3
Barium	7440-39-3	4000	820	mg/kg	10.8	158	235	13.4	6.91	14.5	4360	6210
Beryllium	7440-41-7	240	47	mg/kg	0.1	0.1 U	0.141	0.105 J	0.089	0.193	0.173	0.293
Cadmium	7440-43-9	40	7.5	mg/kg	0.277 U	8.28	31.7	0.112 J	0.272 U	0.633	0.469 U	1.53
Chromium	7440-47-3	100	20	mg/kg	4.54	158	178	3.89	9.52	32.7	64.3	109
Copper	7440-50-8	8500	1700	mg/kg	10.5	761	305	5.47	22.6	18.9	7120	2890
Lead	7439-92-1	2000	450	mg/kg	18.5	145	4860	36.4	12.2	328	4920	843
Mercury	7439-97-6	3.7	0.7	mg/kg	0.0333 U	1.92	9.21	0.078 U	0.0326 U	0.0472	0.135	0.107
Nickel	7440-02-0	650	130	mg/kg	3.35	24.5	114	2.22	2.27	6.84	19.8	22.1
Selenium	7782-49-2	NS	NS	mg/kg	2.31 U	4.98 U	2.83 U	0.87 U	2.27 U	2.38 U	3.91 U	3.25 U
Silver	7440-22-4	50	10	mg/kg	0.462 U	5.15	0.567 U	0.217 U	0.453 U	0.477 U	0.782 U	0.651 U

Notes:
SCDHS Action Levels & Cleanup Objectives, SOP 9-95 Pumpout and Soil Cleanup Criteria, 8/2010
NS - No Standard
** - The Action Level for acetone will be determined on a case by case basis
U - The analyte was analyzed for, but was not detected above the reported sample quantification limit.
J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
D - Result is from an analysis that required a dilution
Yellow highlighted text denotes concentrations exceeding SCDHS Cleanup Objective
Orange highlighted text denotes concentrations exceeding SCDHS Acton Level

Table 4
Soil Sample Analytical Results - PCBs
Former BOMARC Site

LOCATION	CAS Number	NYSDEC	Units	S-2	S-3	S-16	S-16A (0-6")	S-16A (6-12")	S-17 DW	S-18	FP001_9ft	FP002_8ft
LAB SAMPLE ID		UUSCO		22L1187-05	22L1187-04	22L1187-01	L2316688-01	L2316688-02	22L1187-02	22L1187-03	22L1175-01	22L1175-02
SAMPLE DATE				12/21/2022	12/21/2022	12/21/2022	3/30/2023	3/30/2023	12/21/2022	12/21/2022	12/20/2022	12/20/2022
Polychlorinated Biphenyls												
Aroclor 1016	12674-11-2	0.1	mg/kg	0.0182 U	0.0397 U	11.1 U	0.0378 U	0.0347 U	0.0181 U	NA	0.0305 U	0.0254 U
Aroclor 1221	11104-28-2	0.1	mg/kg	0.0182 U	0.0397 U	11.1 U	0.0378 U	0.0347 U	0.0181 U	NA	0.0305 U	0.0254 U
Aroclor 1232	11141-16-5	0.1	mg/kg	0.0182 U	0.0397 U	11.1 U	0.0378 U	0.0347 U	0.0181 U	NA	0.0305 U	0.0254 U
Aroclor 1242	53469-21-9	0.1	mg/kg	0.0182 U	0.0397 U	11.1 U	0.0378 U	0.0347 U	0.0181 U	NA	0.0305 U	0.0254 U
Aroclor 1248	12672-29-6	0.1	mg/kg	0.0182 U	0.0397 U	11.1 U	0.0378 U	0.0347 U	0.0181 U	NA	0.0305 U	0.0254 U
Aroclor 1254	11097-69-1	0.1	mg/kg	0.0182 U	0.285	326 D	0.525	0.512	0.531	NA	0.0305 U	0.0254 U
Aroclor 1260	11096-82-5	0.1	mg/kg	0.0182 U	0.0397 U	11.1 U	0.0378 U	0.0347 U	0.0181 U	NA	0.0305 U	0.0254 U
Total PCBs	1336-36-3	0.1	mg/kg	0.0182 U	0.285	326 D	0.525	0.512	0.531	NA	0.0305 U	0.0254 U

Notes:
NYSDEC Unrestricted Use Soil Cleanup Objective, 6 NYCRR Part 375 - Environmental Remediation Programs, 12/2006
NS - No Standard
NA - Not Analyzed
U - The analyte was analyzed for, but was not detected above the reported sample quantification limit.
J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
D - Result is from an analysis that required a dilution
Orange highlighted text denotes concentrations exceeding NYSDEC UUSCO

APPENDIX A

GEOPHYSICAL SURVEY REPORT



SHD2201 – UIC CHARACTERIZATION REPORT

P.W. GROSSER CONSULTING, INC • P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC

631.589.6353 • WWW.PWGROSSER.COM • PWGC.INFO@PWGROSSER.COM

BOHEMIA • MANHATTAN • SARATOGA SPRINGS • SYRACUSE • SHELTON, CT



3 Mystic Lane
Malvern, PA 19355
(610) 722-5500 (ph.)
(610) 722-0250 (fax)

January 3, 2023
AGS Ref#: 22-329-1

Mr. Joe Pressler
P.W. Grosser Consulting
630 Johnson Avenue, Suite 7
Bohemia, New York 11716

Subject: Private Utility Markout Report
100 Old Country Road
Westhampton, Long Island, New York

Dear Mr. Pressler,

Advanced Geological Services (AGS) presents this letter report to P.W. Grosser Consulting (PWG) detailing the methods and results of the investigation conducted on December 21, 2022. The investigation was completed around two abandoned buildings located at the subject property. The objective of the investigation was to identify and markout piping associated with a trench drain (Building 216) and an abandoned dry-well (Building 206).

To achieve the investigation objective AGS utilized the ground penetrating radar (GPR) method. Additionally, AGS and PWG opened and observed the interior of the trench drain located in Building 216. GPR data were collected as a grid with a data density sufficient to identify piping or pipe trenchways across the survey areas.

The ground penetrating radar (GPR) method was used to search for and delineate potential underground utilities and other potential targets of interest. The GPR method is based upon the transmission of repetitive, radio frequency electromagnetic (EM) pulses into the subsurface. When the transmitted energy of the down-going wave contacts an interface of dissimilar electrical character, part of the energy is returned to the surface in the form of a reflected signal. This reflected signal is detected by a receiving transducer and is displayed on the screen of the GPR unit as well as being recorded on the internal hard-drive. The received GPR response remains constant as long as the electrical contrast between media is present and constant. Lateral or vertical changes in the electrical properties of the subsurface result in equivalent changes in the GPR responses. The system records a continuous image of the subsurface by plotting two-way travel time of the reflected EM pulse versus distance traveled along the ground surface. Two-way travel time values are then converted to depth using known soil velocity functions.

A Geophysical Survey Systems, Inc. SIR 3000 GPR system and a 400 megahertz (MHz) antenna were used with a recording window of 60 nanoseconds (ns) to provide the required depth penetration and subsurface detail. The GPR field procedures involved (1) instrument calibration, (2) test run completion, (3) production profile collection, analysis, and recording.

Results and Discussion

AGS utilized the GPR method to identify piping during the investigation conducted at Building 216 and Building 206, 100 Old Country Road, Westhampton, NY. GPR data were collected in the accessible interior and exterior portions of the abandoned buildings. AGS identified and marked out piping associated with a trench drain in Building 216, and identified the piping associated with a dry-well at Building 206. Discussions of the results of the investigation are detailed below.

Building 216

A trench drain is located in the garage and surface debris is located across much of the garage area. AGS and PWG opened the trench drain and observed two pipes running west, meeting a catch basin/pit along the wall. The catch basin was opened and a single pipe was observed continuing west into the next room. GPR data were collected in the room, and the pipe was identified turning south exiting the building. The pipe was observed in the GPR data running south ending at a large vertical pipe, located next to an abandoned piece of industrial equipment.

A second smaller pipe was observed in the GPR data collected at Building 216. The pipe was identified running south away from a sink, exiting the building, and running to a small washout located in the trees.

Building 206

A dry-well is visible at ground surface, located northwest of Building 206. GPR data were collected around the dry-well and a pipe was observed trending south, connecting to the floor drains in Building 206.

In summary, AGS identified and marked out piping associated with Building 216 and Building 206. Identified piping were marked onsite by AGS using spray paint. The results of the investigation were discussed with the PWG representative at the completion of field work. Annotated site photos are included with this report.

Closing

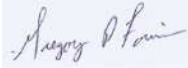
The data collection and interpretation methods used in this investigation are consistent with standard practices applied to similar investigations. The correlation of data responses with probable subsurface features is based on past results of similar surveys, although it is possible that some variation could exist at this site. Due to the nature of this data, no guarantees can be made or implied regarding the presence or absence of additional utilities, buried structures, or targets beyond those identified. All coordinates were determined using a GIS quality GPS

Mr. Joe Pressler
January 3, 2023
22-329-1
Page 3 of 3

instrument with up to sub-meter accuracy.

Feature locations were not determined by a licensed surveyor and should be considered approximate. If you have any questions, please contact me by phone 610-722-5500 or via email. It was a pleasure working with you on this project, and we look forward to conducting geophysical investigations for you in the future.

Sincerely,

A handwritten signature in blue ink, appearing to read "Greg Fournier", is displayed on a light blue rectangular background.

Greg Fournier
Project Scientist

Attachment: Site Photos



Photo showing the location of the observed piping running east through a catch basin, into the next room. Building 216

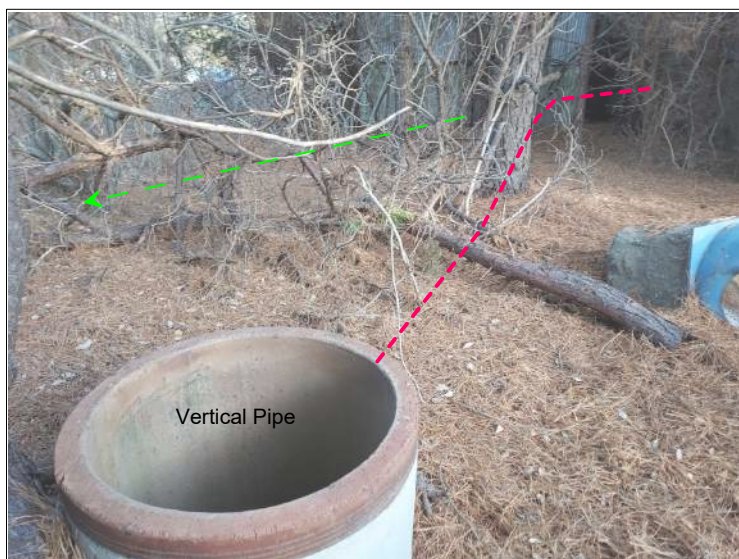


Photo showing the location of the observed piping (red) running between the building and the vertical pipe. The location of the second smaller pipe is shown in green. Building 216



Photo showing the location of the observed piping running between the dry-well and the building. Building 206

APPENDIX B

LABORATORY ANALYTICAL REPORTS



SHD2201 – UIC CHARACTERIZATION REPORT

P.W. GROSSER CONSULTING, INC • P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC

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BOHEMIA • MANHATTAN • SARATOGA SPRINGS • SYRACUSE • SHELTON, CT



Technical Report

prepared for:

P.W. Grosser Consulting

630 Johnson Avenue, Suite 7

Bohemia NY, 11716

Attention: Thomas Melia

Report Date: 12/30/2022

Client Project ID: SHD2201 BOMARC

York Project (SDG) No.: 22L1175



CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037

New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

Report Date: 12/30/2022
Client Project ID: SHD2201 BOMARC
York Project (SDG) No.: 22L1175

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

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 December 21, 2022 and listed below. The project was identified as your project: **SHD2201 BOMARC**.

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>
22L1175-01	FP001_9ft	Soil	12/20/2022	12/21/2022
22L1175-02	FP002_8ft	Soil	12/20/2022	12/21/2022

General Notes for York Project (SDG) No.: 22L1175

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

Approved By:



Cassie L. Mosher
Laboratory Manager

Date: 12/30/2022





Sample Information

Client Sample ID: FP001_9ft

York Sample ID: 22L1175-01

York Project (SDG) No.

22L1175

Client Project ID

SHD2201 BOMARC

Matrix

Soil

Collection Date/Time

December 20, 2022 12:00 pm

Date Received

12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

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		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	12/29/2022 06:56	12/29/2022 15:23	BMC
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:23	BMC
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:23	BMC
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/29/2022 06:56	12/29/2022 15:23	BMC
95-93-2	* 1,2,4,5-Tetramethylbenzene	12000		ug/kg dry	420	840	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:23	BMC
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:23	BMC
95-63-6	1,2,4-Trimethylbenzene	61000		ug/kg dry	2100	4200	500	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 12:49	BMC
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
108-67-8	1,3,5-Trimethylbenzene	22000		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:23	BMC



Sample Information

Client Sample ID: FP001_9ft

York Sample ID: 22L1175-01

York Project (SDG) No.

22L1175

Client Project ID

SHD2201 BOMARC

Matrix

Soil

Collection Date/Time

December 20, 2022 12:00 pm

Date Received

12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
123-91-1	1,4-Dioxane	ND		ug/kg dry	8400	17000	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:23	BMC
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/29/2022 06:56	12/29/2022 15:23	BMC
78-93-3	2-Butanone	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
110-75-8	2-Chloroethylvinyl ether	ND		ug/kg dry	1700	3400	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:23	BMC
95-49-8	2-Chlorotoluene	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
591-78-6	2-Hexanone	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
106-43-4	4-Chlorotoluene	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
67-64-1	Acetone	ND		ug/kg dry	840	1700	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
107-02-8	Acrolein	ND		ug/kg dry	840	1700	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
107-13-1	Acrylonitrile	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
71-43-2	Benzene	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
108-86-1	Bromobenzene	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:23	BMC
74-97-5	Bromochloromethane	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:23	BMC
75-27-4	Bromodichloromethane	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
75-25-2	Bromoform	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
74-83-9	Bromomethane	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
75-15-0	Carbon disulfide	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
56-23-5	Carbon tetrachloride	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
108-90-7	Chlorobenzene	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
75-00-3	Chloroethane	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC



Sample Information

Client Sample ID: FP001_9ft

York Sample ID: 22L1175-01

York Project (SDG) No.
22L1175

Client Project ID
SHD2201 BOMARC

Matrix
Soil

Collection Date/Time
December 20, 2022 12:00 pm

Date Received
12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

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
67-66-3	Chloroform	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
74-87-3	Chloromethane	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
124-48-1	Dibromochloromethane	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:23	BMC
74-95-3	Dibromomethane	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:23	BMC
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:23	BMC
100-41-4	Ethyl Benzene	3600		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
60-29-7	* Ethyl Ether	ND		ug/kg dry	4200	8400	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:23	BMC
637-92-3	* Ethyl tert-butyl ether (ETBE)	ND		ug/kg dry	670	1300	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:23	BMC
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:23	BMC
74-88-4	* Iodomethane	ND		ug/kg dry	420	840	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:23	BMC
98-82-8	Isopropylbenzene	4100		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
80-62-6	Methyl Methacrylate	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:23	BMC
75-09-2	Methylene chloride	ND		ug/kg dry	840	1700	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
91-20-3	Naphthalene	9300		ug/kg dry	420	1700	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:23	BMC
104-51-8	n-Butylbenzene	14000		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
103-65-1	n-Propylbenzene	9700		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
95-47-6	o-Xylene	10000		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
179601-23-1	p- & m- Xylenes	13000		ug/kg dry	840	1700	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
105-05-5	* p-Diethylbenzene	31000		ug/kg dry	420	840	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:23	BMC



Sample Information

Client Sample ID: FP001_9ft

York Sample ID: 22L1175-01

York Project (SDG) No.
22L1175

Client Project ID
SHD2201 BOMARC

Matrix
Soil

Collection Date/Time
December 20, 2022 12:00 pm

Date Received
12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

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
622-96-8	* p-Ethyltoluene	41000		ug/kg dry	2100	4200	500	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 12:49	BMC
99-87-6	p-Isopropyltoluene	7200		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
135-98-8	sec-Butylbenzene	7200		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
100-42-5	Styrene	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
994-05-8	* tert-Amyl methyl ether (TAME)	ND		ug/kg dry	670	1300	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:23	BMC
98-06-6	tert-Butylbenzene	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
127-18-4	Tetrachloroethylene	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
109-99-9	* Tetrahydrofuran	ND		ug/kg dry	840	1700	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:23	BMC
108-88-3	Toluene	1200		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
79-01-6	Trichloroethylene	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
108-05-4	Vinyl acetate	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:23	BMC
75-01-4	Vinyl Chloride	ND		ug/kg dry	420	840	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:23	BMC
1330-20-7	Xylenes, Total	23000		ug/kg dry	1300	2500	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	12/29/2022 06:56	12/29/2022 15:23	BMC
107-05-1	* Allyl chloride	ND		ug/kg dry	420	840	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:23	BMC
123-86-4	* n-butyl acetate	ND		ug/kg dry	420	840	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:23	BMC
75-45-6	* Chlorodifluoromethane (Freon 22)	ND		ug/kg dry	420	840	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:23	BMC
493-01-6	* cis-decahydronaphthalene	ND		ug/kg dry	420	840	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:23	BMC
493-02-7	* trans-decahydronaphthalene	13000		ug/kg dry	420	840	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:23	BMC
124-18-5	* n-Decane	84000		ug/kg dry	2100	4200	500	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 12:49	BMC



Sample Information

Client Sample ID: FP001_9ft

York Sample ID: 22L1175-01

York Project (SDG) No.
22L1175

Client Project ID
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Matrix
Soil

Collection Date/Time
December 20, 2022 12:00 pm

Date Received
12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

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
97-63-2	* Ethyl Methacrylate	ND		ug/kg dry	420	840	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:23	BMC
67-72-1	* Hexachloroethane	ND		ug/kg dry	420	840	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:23	BMC
110-54-3	* n-Hexane	ND		ug/kg dry	420	840	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:23	BMC
5989-27-5	* Limonene	ND		ug/kg dry	420	840	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:23	BMC
98-95-3	* Nitrobenzene	ND		ug/kg dry	420	840	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:23	BMC
79-46-9	* 2-Nitropropane	ND		ug/kg dry	420	840	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:23	BMC
111-84-2	* n-Nonane	74000	QL-02	ug/kg dry	2100	4200	500	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 12:49	BMC
111-65-9	* n-octane	17000	CCVE, QL-02	ug/kg dry	420	840	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:23	BMC
1120-21-4	* n-undecane	26000	QL-02	ug/kg dry	420	840	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:23	BMC
556-61-6	* Methyl Isothiocyanate (TIC)	ND		ug/kg dry	8400	8400	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:23	BMC
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	107 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	97.8 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	136 %	S-03, S-08		76-130						

Semi-Volatiles, Suffolk Co. DHS App. A List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	77.6	155	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 20:51	KH
120-12-7	Anthracene	ND		ug/kg dry	77.6	155	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 20:51	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	77.6	155	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 20:51	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	77.6	155	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 20:51	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	77.6	155	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 20:51	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	77.6	155	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 20:51	KH



Sample Information

Client Sample ID: FP001_9ft

York Sample ID: 22L1175-01

York Project (SDG) No.

22L1175

Client Project ID

SHD2201 BOMARC

Matrix

Soil

Collection Date/Time

December 20, 2022 12:00 pm

Date Received

12/21/2022

Semi-Volatiles, Suffolk Co. DHS App. A List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	77.6	155	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 20:51	KH
218-01-9	Chrysene	ND		ug/kg dry	77.6	155	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 20:51	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	77.6	155	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 20:51	KH
206-44-0	Fluoranthene	ND		ug/kg dry	77.6	155	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 20:51	KH
86-73-7	Fluorene	472		ug/kg dry	77.6	155	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 20:51	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	77.6	155	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 20:51	KH
85-01-8	Phenanthrene	172		ug/kg dry	77.6	155	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 20:51	KH
129-00-0	Pyrene	ND		ug/kg dry	77.6	155	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 20:51	KH
Surrogate Recoveries		Result		Acceptance Range							
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	1380 %	S-08			22-108					
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	51.0 %				21-113					
1718-51-0	Surrogate: SURR: Terphenyl-d14	59.7 %				24-116					

PCB, 8082 MASTER

Log-in Notes:

Sample Notes:

Sample 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	0.0305	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:46	12/29/2022 02:17	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0305	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:46	12/29/2022 02:17	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0305	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:46	12/29/2022 02:17	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0305	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:46	12/29/2022 02:17	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0305	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:46	12/29/2022 02:17	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0305	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:46	12/29/2022 02:17	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0305	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:46	12/29/2022 02:17	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0305	1	EPA 8082A Certifications:	12/24/2022 10:46	12/29/2022 02:17	BJ
Surrogate Recoveries		Result		Acceptance Range						



Sample Information

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December 20, 2022 12:00 pm

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12/21/2022

PCB, 8082 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	Surrogate: Tetrachloro-m-xylene	66.5 %			30-120					
2051-24-3	Surrogate: Decachlorobiphenyl	106 %			30-120					

Metals, Suffolk Co. App. B

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
7440-38-2	Arsenic	12.5		mg/kg dry	2.35	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/28/2022 13:47	12/29/2022 11:19	CW
7440-39-3	Barium	4360		mg/kg dry	3.91	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/28/2022 13:47	12/29/2022 11:19	CW
7440-41-7	Beryllium	0.173		mg/kg dry	0.078	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/28/2022 13:47	12/29/2022 11:19	CW
7440-43-9	Cadmium	ND		mg/kg dry	0.469	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/28/2022 13:47	12/29/2022 11:19	CW
7440-47-3	Chromium	64.3		mg/kg dry	0.782	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/28/2022 13:47	12/29/2022 11:19	CW
7440-50-8	Copper	7120		mg/kg dry	3.13	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/28/2022 13:47	12/29/2022 11:19	CW
7439-92-1	Lead	4920		mg/kg dry	0.782	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/28/2022 13:47	12/29/2022 11:19	CW
7440-02-0	Nickel	19.8		mg/kg dry	1.56	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/28/2022 13:47	12/29/2022 11:19	CW
7782-49-2	Selenium	ND		mg/kg dry	3.91	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/28/2022 13:47	12/29/2022 11:19	CW
7440-22-4	Silver	ND		mg/kg dry	0.782	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/28/2022 13:47	12/29/2022 11:19	CW

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	0.135		mg/kg dry	0.0563	1	EPA 7473 Certifications: CTDOH-PH-0723,NJDEP,NELAC-NY10854,PADEP	12/29/2022 09:11	12/29/2022 14:18	MR

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	53.3		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	12/28/2022 10:09	12/28/2022 15:02	LAR



Sample Information

Client Sample ID: FP001_9ft

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Date Received

22L1175

SHD2201 BOMARC

Soil

December 20, 2022 12:00 pm

12/21/2022



Sample Information

Client Sample ID: FP002_8ft

York Sample ID: 22L1175-02

York Project (SDG) No.
22L1175

Client Project ID
SHD2201 BOMARC

Matrix
Soil

Collection Date/Time
December 20, 2022 9:50 am

Date Received
12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

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		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	12/29/2022 06:56	12/29/2022 14:54	BMC
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 14:54	BMC
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 14:54	BMC
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/29/2022 06:56	12/29/2022 14:54	BMC
95-93-2	* 1,2,4,5-Tetramethylbenzene	1300		ug/kg dry	300	610	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 14:54	BMC
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 14:54	BMC
95-63-6	1,2,4-Trimethylbenzene	2500		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
108-67-8	1,3,5-Trimethylbenzene	1400		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 14:54	BMC



Sample Information

Client Sample ID: FP002_8ft

York Sample ID: 22L1175-02

York Project (SDG) No.

22L1175

Client Project ID

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Volatile Organics, Suffolk Co. App.A DHS List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
123-91-1	1,4-Dioxane	ND		ug/kg dry	6100	12000	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 14:54	BMC
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/29/2022 06:56	12/29/2022 14:54	BMC
78-93-3	2-Butanone	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
110-75-8	2-Chloroethylvinyl ether	ND		ug/kg dry	1200	2400	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 14:54	BMC
95-49-8	2-Chlorotoluene	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
591-78-6	2-Hexanone	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
106-43-4	4-Chlorotoluene	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
67-64-1	Acetone	ND		ug/kg dry	610	1200	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
107-02-8	Acrolein	ND		ug/kg dry	610	1200	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
107-13-1	Acrylonitrile	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
71-43-2	Benzene	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
108-86-1	Bromobenzene	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 14:54	BMC
74-97-5	Bromochloromethane	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 14:54	BMC
75-27-4	Bromodichloromethane	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
75-25-2	Bromoform	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
74-83-9	Bromomethane	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
75-15-0	Carbon disulfide	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
56-23-5	Carbon tetrachloride	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
108-90-7	Chlorobenzene	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
75-00-3	Chloroethane	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC



Sample Information

Client Sample ID: FP002_8ft

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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
67-66-3	Chloroform	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
74-87-3	Chloromethane	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
124-48-1	Dibromochloromethane	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 14:54	BMC
74-95-3	Dibromomethane	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 14:54	BMC
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 14:54	BMC
100-41-4	Ethyl Benzene	310	J	ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
60-29-7	* Ethyl Ether	ND		ug/kg dry	3000	6100	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 14:54	BMC
637-92-3	* Ethyl tert-butyl ether (ETBE)	ND		ug/kg dry	480	970	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 14:54	BMC
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 14:54	BMC
74-88-4	* Iodomethane	ND		ug/kg dry	300	610	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 14:54	BMC
98-82-8	Isopropylbenzene	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
80-62-6	Methyl Methacrylate	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 14:54	BMC
75-09-2	Methylene chloride	ND		ug/kg dry	610	1200	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
91-20-3	Naphthalene	1100	J	ug/kg dry	300	1200	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 14:54	BMC
104-51-8	n-Butylbenzene	1300		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
103-65-1	n-Propylbenzene	660		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
95-47-6	o-Xylene	710		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
179601-23-1	p- & m- Xylenes	860	J	ug/kg dry	610	1200	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
105-05-5	* p-Diethylbenzene	2900		ug/kg dry	300	610	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 14:54	BMC



Sample Information

Client Sample ID: FP002_8ft

York Sample ID: 22L1175-02

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Volatile Organics, Suffolk Co. App.A DHS List

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
622-96-8	* p-Ethyltoluene	2300		ug/kg dry	300	610	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 14:54	BMC
99-87-6	p-Isopropyltoluene	580	J	ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
135-98-8	sec-Butylbenzene	610		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
100-42-5	Styrene	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
994-05-8	* tert-Amyl methyl ether (TAME)	ND		ug/kg dry	480	970	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 14:54	BMC
98-06-6	tert-Butylbenzene	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
127-18-4	Tetrachloroethylene	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
109-99-9	* Tetrahydrofuran	ND		ug/kg dry	610	1200	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 14:54	BMC
108-88-3	Toluene	540	J	ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
79-01-6	Trichloroethylene	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
108-05-4	Vinyl acetate	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 14:54	BMC
75-01-4	Vinyl Chloride	ND		ug/kg dry	300	610	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 14:54	BMC
1330-20-7	Xylenes, Total	1600	J	ug/kg dry	910	1800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	12/29/2022 06:56	12/29/2022 14:54	BMC
107-05-1	* Allyl chloride	ND		ug/kg dry	300	610	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 14:54	BMC
123-86-4	* n-butyl acetate	ND		ug/kg dry	300	610	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 14:54	BMC
75-45-6	* Chlorodifluoromethane (Freon 22)	ND		ug/kg dry	300	610	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 14:54	BMC
493-01-6	* cis-decahydronaphthalene	1100		ug/kg dry	300	610	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 14:54	BMC
493-02-7	* trans-decahydronaphthalene	5200		ug/kg dry	300	610	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 14:54	BMC
124-18-5	* n-Decane	9200		ug/kg dry	300	610	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 14:54	BMC



Sample Information

Client Sample ID: FP002_8ft

York Sample ID: 22L1175-02

York Project (SDG) No.
22L1175

Client Project ID
SHD2201 BOMARC

Matrix
Soil

Collection Date/Time
December 20, 2022 9:50 am

Date Received
12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

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
97-63-2	* Ethyl Methacrylate	ND		ug/kg dry	300	610	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 14:54	BMC
67-72-1	* Hexachloroethane	ND		ug/kg dry	300	610	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 14:54	BMC
110-54-3	* n-Hexane	ND		ug/kg dry	300	610	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 14:54	BMC
5989-27-5	* Limonene	ND		ug/kg dry	300	610	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 14:54	BMC
98-95-3	* Nitrobenzene	ND		ug/kg dry	300	610	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 14:54	BMC
79-46-9	* 2-Nitropropane	ND		ug/kg dry	300	610	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 14:54	BMC
111-84-2	* n-Nonane	5600	QL-02	ug/kg dry	300	610	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 14:54	BMC
111-65-9	* n-octane	1500	CCVE, QL-02	ug/kg dry	300	610	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 14:54	BMC
1120-21-4	* n-undecane	6600	QL-02	ug/kg dry	300	610	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 14:54	BMC
556-61-6	* Methyl Isothiocyanate (TIC)	ND		ug/kg dry	6100	6100	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 14:54	BMC
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	108 %	77-125								
2037-26-5	Surrogate: SURR: Toluene-d8	97.9 %	85-120								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	118 %	76-130								

Semi-Volatiles, Suffolk Co. DHS App. A List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	64.2	128	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 21:21	KH
120-12-7	Anthracene	ND		ug/kg dry	64.2	128	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 21:21	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	64.2	128	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 21:21	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	64.2	128	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 21:21	KH
205-99-2	Benzo(b)fluoranthene	69.6	J	ug/kg dry	64.2	128	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 21:21	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	64.2	128	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 21:21	KH



Sample Information

Client Sample ID: FP002_8ft

York Sample ID: 22L1175-02

York Project (SDG) No.

22L1175

Client Project ID

SHD2201 BOMARC

Matrix

Soil

Collection Date/Time

December 20, 2022 9:50 am

Date Received

12/21/2022

Semi-Volatiles, Suffolk Co. DHS App. A List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	64.2	128	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 21:21	KH
218-01-9	Chrysene	67.6	J	ug/kg dry	64.2	128	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 21:21	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	64.2	128	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 21:21	KH
206-44-0	Fluoranthene	136		ug/kg dry	64.2	128	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 21:21	KH
86-73-7	Fluorene	74.8	J	ug/kg dry	64.2	128	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 21:21	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	64.2	128	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 21:21	KH
85-01-8	Phenanthrene	112	J	ug/kg dry	64.2	128	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 21:21	KH
129-00-0	Pyrene	86.0	J	ug/kg dry	64.2	128	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/25/2022 11:01	12/26/2022 21:21	KH
Surrogate Recoveries		Result		Acceptance Range							
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	436 %	S-08			22-108					
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	46.1 %				21-113					
1718-51-0	Surrogate: SURR: Terphenyl-d14	53.4 %				24-116					

PCB, 8082 MASTER

Log-in Notes:

Sample Notes:

Sample 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	0.0254	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:46	12/29/2022 02:30	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0254	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:46	12/29/2022 02:30	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0254	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:46	12/29/2022 02:30	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0254	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:46	12/29/2022 02:30	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0254	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:46	12/29/2022 02:30	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0254	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:46	12/29/2022 02:30	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0254	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:46	12/29/2022 02:30	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0254	1	EPA 8082A Certifications:	12/24/2022 10:46	12/29/2022 02:30	BJ
Surrogate Recoveries		Result		Acceptance Range						



Sample Information

Client Sample ID: FP002_8ft

York Sample ID: 22L1175-02

York Project (SDG) No.
22L1175

Client Project ID
SHD2201 BOMARC

Matrix
Soil

Collection Date/Time
December 20, 2022 9:50 am

Date Received
12/21/2022

PCB, 8082 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	Surrogate: Tetrachloro-m-xylene	75.5 %			30-120					
2051-24-3	Surrogate: Decachlorobiphenyl	97.0 %			30-120					

Metals, Suffolk Co. App. B

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
7440-38-2	Arsenic	26.3		mg/kg dry	1.95	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/28/2022 13:47	12/29/2022 11:22	CW
7440-39-3	Barium	6210		mg/kg dry	3.25	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/28/2022 13:47	12/29/2022 11:22	CW
7440-41-7	Beryllium	0.293		mg/kg dry	0.065	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/28/2022 13:47	12/29/2022 11:22	CW
7440-43-9	Cadmium	1.53		mg/kg dry	0.390	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/28/2022 13:47	12/29/2022 11:22	CW
7440-47-3	Chromium	109		mg/kg dry	0.651	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/28/2022 13:47	12/29/2022 11:22	CW
7440-50-8	Copper	2890		mg/kg dry	2.60	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/28/2022 13:47	12/29/2022 11:22	CW
7439-92-1	Lead	843		mg/kg dry	0.651	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/28/2022 13:47	12/29/2022 11:22	CW
7440-02-0	Nickel	22.1		mg/kg dry	1.30	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/28/2022 13:47	12/29/2022 11:22	CW
7782-49-2	Selenium	ND		mg/kg dry	3.25	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/28/2022 13:47	12/29/2022 11:22	CW
7440-22-4	Silver	ND		mg/kg dry	0.651	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/28/2022 13:47	12/29/2022 11:22	CW

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	0.107		mg/kg dry	0.0469	1	EPA 7473 Certifications: CTDOH-PH-0723,NJDEP,NELAC-NY10854,PADEP	12/29/2022 09:11	12/29/2022 14:26	MR

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	64.0		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	12/28/2022 10:09	12/28/2022 15:02	LAR



Sample Information

Client Sample ID: FP002_8ft

York Sample ID: 22L1175-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

22L1175

SHD2201 BOMARC

Soil

December 20, 2022 9:50 am

12/21/2022



Analytical Batch Summary

Batch ID: BL21333 **Preparation Method:** EPA 5035A **Prepared By:** BMC

YORK Sample ID	Client Sample ID	Preparation Date
22L1175-01	FP001_9ft	12/29/22
22L1175-01RE1	FP001_9ft	12/29/22
22L1175-02	FP002_8ft	12/29/22
BL21333-BLK1	Blank	12/29/22
BL21333-BS1	LCS	12/29/22
BL21333-BS2	LCS	12/29/22
BL21333-BSD1	LCS Dup	12/29/22
BL21333-BSD2	LCS Dup	12/29/22

Batch ID: BL21455 **Preparation Method:** EPA 3550C **Prepared By:** FK

YORK Sample ID	Client Sample ID	Preparation Date
22L1175-01	FP001_9ft	12/24/22
22L1175-02	FP002_8ft	12/24/22
BL21455-BLK2	Blank	12/23/22
BL21455-BS2	LCS	12/23/22
BL21455-MS2	Matrix Spike	12/23/22
BL21455-MSD2	Matrix Spike Dup	12/23/22

Batch ID: BL21473 **Preparation Method:** EPA 3550C **Prepared By:** FK

YORK Sample ID	Client Sample ID	Preparation Date
22L1175-01	FP001_9ft	12/25/22
22L1175-02	FP002_8ft	12/25/22
BL21473-BLK1	Blank	12/24/22
BL21473-BS1	LCS	12/24/22
BL21473-MS1	Matrix Spike	12/24/22
BL21473-MSD1	Matrix Spike Dup	12/24/22

Batch ID: BL21612 **Preparation Method:** % Solids Prep **Prepared By:** LAR

YORK Sample ID	Client Sample ID	Preparation Date
22L1175-01	FP001_9ft	12/28/22
22L1175-02	FP002_8ft	12/28/22
BL21612-DUP1	Duplicate	12/28/22

Batch ID: BL21631 **Preparation Method:** EPA 3050B **Prepared By:** KMQ

YORK Sample ID	Client Sample ID	Preparation Date
22L1175-01	FP001_9ft	12/28/22
22L1175-02	FP002_8ft	12/28/22
BL21631-BLK1	Blank	12/28/22
BL21631-DUP1	Duplicate	12/28/22



BL21631-MS1	Matrix Spike	12/28/22
BL21631-PS1	Post Spike	12/28/22
BL21631-SRM1	Reference	12/28/22

Batch ID: BL21688 **Preparation Method:** EPA 7473 soil **Prepared By:** MR

YORK Sample ID	Client Sample ID	Preparation Date
22L1175-01	FP001_9ft	12/29/22
22L1175-02	FP002_8ft	12/29/22
BL21688-BLK1	Blank	12/29/22
BL21688-DUP1	Duplicate	12/29/22
BL21688-MS1	Matrix Spike	12/29/22
BL21688-SRM1	Reference	12/29/22



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21333 - EPA 5035A

Blank (BL21333-BLK1)

Prepared & Analyzed: 12/29/2022

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet
1,1,1-Trichloroethane	ND	5.0	"
1,1,2,2-Tetrachloroethane	ND	5.0	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,1-Dichloroethylene	ND	5.0	"
1,1-Dichloropropylene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	5.0	"
1,2,3-Trichloropropane	ND	5.0	"
1,2,4,5-Tetramethylbenzene	ND	5.0	"
1,2,4-Trichlorobenzene	ND	5.0	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	5.0	"
1,2-Dibromoethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
1,4-Dioxane	ND	100	"
2,2-Dichloropropane	ND	5.0	"
2-Butanone	ND	5.0	"
2-Chloroethylvinyl ether	ND	20	"
2-Chlorotoluene	ND	5.0	"
2-Hexanone	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
4-Methyl-2-pentanone	ND	5.0	"
Acetone	ND	10	"
Acrolein	ND	10	"
Acrylonitrile	ND	5.0	"
Benzene	ND	5.0	"
Bromobenzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
Carbon disulfide	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	5.0	"
cis-1,2-Dichloroethylene	ND	5.0	"
cis-1,3-Dichloropropylene	ND	5.0	"
Dibromochloromethane	ND	5.0	"
Dibromomethane	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21333 - EPA 5035A

Blank (BL21333-BLK1)

Prepared & Analyzed: 12/29/2022

Ethyl Benzene	ND	5.0	ug/kg wet								
Ethyl Ether	ND	50	"								
Ethyl tert-butyl ether (ETBE)	ND	8.0	"								
Hexachlorobutadiene	ND	5.0	"								
Iodomethane	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl Methacrylate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Diethylbenzene	ND	5.0	"								
p-Ethyltoluene	ND	5.0	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Amyl methyl ether (TAME)	ND	8.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Tetrahydrofuran	ND	10	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl acetate	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Allyl chloride	ND	5.0	"								
n-butyl acetate	ND	5.0	"								
Chlorodifluoromethane (Freon 22)	ND	5.0	"								
cis-decahydronaphthalene	ND	5.0	"								
trans-decahydronaphthalene	ND	5.0	"								
n-Decane	ND	5.0	"								
Ethyl Methacrylate	ND	5.0	"								
Hexachloroethane	ND	5.0	"								
n-Hexane	ND	5.0	"								
Limonene	ND	5.0	"								
Nitrobenzene	ND	5.0	"								
2-Nitropropane	ND	5.0	"								
n-Nonane	ND	5.0	"								
n-octane	ND	5.0	"								
n-undecane	ND	5.0	"								
Methyl Isothiocyanate (TIC)	ND	50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	54.2		ug/L	50.0		108	77-125				
Surrogate: SURR: Toluene-d8	47.8		"	50.0		95.7	85-120				
Surrogate: SURR: p-Bromofluorobenzene	54.5		"	50.0		109	76-130				





Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL21333 - EPA 5035A											
LCS (BL21333-BS1)						Prepared & Analyzed: 12/29/2022					
1,1,1,2-Tetrachloroethane	52		ug/L	50.0		104	75-129				
1,1,1-Trichloroethane	61		"	50.0		121	71-137				
1,1,2,2-Tetrachloroethane	62		"	50.0		123	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	51		"	50.0		103	58-146				
1,1,2-Trichloroethane	54		"	50.0		109	83-123				
1,1-Dichloroethane	53		"	50.0		106	75-130				
1,1-Dichloroethylene	51		"	50.0		103	64-137				
1,1-Dichloropropylene	57		"	50.0		113	77-127				
1,2,3-Trichlorobenzene	52		"	50.0		104	81-140				
1,2,3-Trichloropropane	57		"	50.0		114	81-126				
1,2,4,5-Tetramethylbenzene	61		"	50.0		123	63-156				
1,2,4-Trichlorobenzene	55		"	50.0		109	80-141				
1,2,4-Trimethylbenzene	54		"	50.0		109	84-125				
1,2-Dibromo-3-chloropropane	67		"	50.0		133	74-142				
1,2-Dibromoethane	57		"	50.0		115	86-123				
1,2-Dichlorobenzene	49		"	50.0		98.4	85-122				
1,2-Dichloroethane	57		"	50.0		115	71-133				
1,2-Dichloropropane	54		"	50.0		109	81-122				
1,3,5-Trimethylbenzene	52		"	50.0		105	82-126				
1,3-Dichlorobenzene	50		"	50.0		100	84-124				
1,3-Dichloropropane	56		"	50.0		112	83-123				
1,4-Dichlorobenzene	50		"	50.0		101	84-124				
1,4-Dioxane	1200		"	1050		116	10-228				
2,2-Dichloropropane	70		"	50.0		139	67-136	High Bias			
2-Butanone	62		"	50.0		125	58-147				
2-Chloroethylvinyl ether	64		"	50.0		129	10-166				
2-Chlorotoluene	56		"	50.0		112	78-127				
2-Hexanone	62		"	50.0		124	70-139				
4-Chlorotoluene	52		"	50.0		104	79-125				
4-Methyl-2-pentanone	60		"	50.0		120	72-132				
Acetone	54		"	50.0		108	36-155				
Acrolein	40		"	50.0		79.9	10-238				
Acrylonitrile	48		"	50.0		96.0	66-141				
Benzene	56		"	50.0		111	77-127				
Bromobenzene	58		"	50.0		115	77-129				
Bromochloromethane	61		"	50.0		122	74-129				
Bromodichloromethane	57		"	50.0		114	81-124				
Bromoform	46		"	50.0		91.2	80-136				
Bromomethane	44		"	50.0		87.3	32-177				
Carbon disulfide	54		"	50.0		109	10-136				
Carbon tetrachloride	59		"	50.0		117	66-143				
Chlorobenzene	54		"	50.0		108	86-120				
Chloroethane	52		"	50.0		104	51-142				
Chloroform	57		"	50.0		114	76-131				
Chloromethane	47		"	50.0		93.3	49-132				
cis-1,2-Dichloroethylene	53		"	50.0		105	74-132				
cis-1,3-Dichloropropylene	62		"	50.0		123	81-129				
Dibromochloromethane	55		"	50.0		110	10-200				
Dibromomethane	55		"	50.0		110	83-124				
Dichlorodifluoromethane	48		"	50.0		95.5	28-158				
Ethyl Benzene	52		"	50.0		105	84-125				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21333 - EPA 5035A

LCS (BL21333-BS1)

Prepared & Analyzed: 12/29/2022

Ethyl Ether	ND	50	ug/kg wet				70-130				
Ethyl tert-butyl ether (ETBE)	63		ug/L	50.0		125	70-130				
Hexachlorobutadiene	49		"	50.0		98.9	83-133				
Iodomethane	65		"	50.0		131	70-130	High Bias			
Isopropylbenzene	57		"	50.0		113	81-127				
Methyl Methacrylate	56		"	50.0		113	79-125				
Methyl tert-butyl ether (MTBE)	61		"	50.0		122	74-131				
Methylene chloride	52		"	50.0		105	57-141				
Naphthalene	58		"	50.0		116	86-141				
n-Butylbenzene	55		"	50.0		111	80-130				
n-Propylbenzene	57		"	50.0		114	74-136				
o-Xylene	54		"	50.0		108	83-123				
p- & m- Xylenes	100		"	100		103	82-128				
p-Diethylbenzene	58		"	50.0		116	70-144				
p-Ethyltoluene	59		"	50.0		118	84-123				
p-Isopropyltoluene	52		"	50.0		105	85-125				
sec-Butylbenzene	56		"	50.0		111	83-125				
Styrene	54		"	50.0		109	86-126				
tert-Amyl methyl ether (TAME)	75		"	50.0		150	70-130	High Bias			
tert-Butylbenzene	54		"	50.0		109	80-127				
Tetrachloroethylene	40		"	50.0		80.9	80-129				
Tetrahydrofuran	59		"	50.0		117	64-137				
Toluene	52		"	50.0		103	85-121				
trans-1,2-Dichloroethylene	55		"	50.0		111	72-132				
trans-1,3-Dichloropropylene	66		"	50.0		131	78-132				
Trichloroethylene	54		"	50.0		108	84-123				
Trichlorofluoromethane	53		"	50.0		106	62-140				
Vinyl acetate	79		"	50.0		157	67-136	High Bias			
Vinyl Chloride	47		"	50.0		95.0	52-130				
Allyl chloride	65		"	50.0		130	70-130				
n-butyl acetate	ND	5.0	ug/kg wet				70-130				
Chlorodifluoromethane (Freon 22)	ND	5.0	"				70-130				
cis-decahydronaphthalene	ND	5.0	"				70-130				
trans-decahydronaphthalene	ND	5.0	"				70-130				
n-Decane	ND	5.0	"				70-130				
Ethyl Methacrylate	57		ug/L	50.0		115	70-130				
Hexachloroethane	ND	5.0	ug/kg wet				70-130				
n-Hexane	ND	5.0	"				70-130				
Limonene	ND	5.0	"				70-130				
Nitrobenzene	50		ug/L	50.0		100	70-130				
2-Nitropropane	72	5.0	ug/kg wet				70-130				
n-Nonane	ND	5.0	"				70-130				
n-octane	ND	5.0	"				70-130				
n-undecane	ND	5.0	"				70-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	53.3		ug/L	50.0		107	77-125				
Surrogate: SURR: Toluene-d8	48.7		"	50.0		97.4	85-120				
Surrogate: SURR: p-Bromofluorobenzene	58.4		"	50.0		117	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21333 - EPA 5035A

LCS (BL21333-BS2)

Prepared & Analyzed: 12/29/2022

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet				75-129			
1,1,1-Trichloroethane	ND	5.0	"				71-137			
1,1,2,2-Tetrachloroethane	ND	5.0	"				79-129			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"				58-146			
1,1,2-Trichloroethane	ND	5.0	"				83-123			
1,1-Dichloroethane	ND	5.0	"				75-130			
1,1-Dichloroethylene	ND	5.0	"				64-137			
1,1-Dichloropropylene	ND	5.0	"				77-127			
1,2,3-Trichlorobenzene	ND	5.0	"				81-140			
1,2,3-Trichloropropane	ND	5.0	"				81-126			
1,2,4,5-Tetramethylbenzene	ND	5.0	"				63-156			
1,2,4-Trichlorobenzene	ND	5.0	"				80-141			
1,2,4-Trimethylbenzene	ND	5.0	"				84-125			
1,2-Dibromo-3-chloropropane	ND	5.0	"				74-142			
1,2-Dibromoethane	ND	5.0	"				86-123			
1,2-Dichlorobenzene	ND	5.0	"				85-122			
1,2-Dichloroethane	ND	5.0	"				71-133			
1,2-Dichloropropane	ND	5.0	"				81-122			
1,3,5-Trimethylbenzene	ND	5.0	"				82-126			
1,3-Dichlorobenzene	ND	5.0	"				84-124			
1,3-Dichloropropane	ND	5.0	"				83-123			
1,4-Dichlorobenzene	ND	5.0	"				84-124			
1,4-Dioxane	ND	100	"				10-228			
2,2-Dichloropropane	ND	5.0	"				67-136			
2-Butanone	ND	5.0	"				58-147			
2-Chloroethylvinyl ether	ND	20	"				10-166			
2-Chlorotoluene	ND	5.0	"				78-127			
2-Hexanone	ND	5.0	"				70-139			
4-Chlorotoluene	ND	5.0	"				79-125			
4-Methyl-2-pentanone	ND	5.0	"				72-132			
Acetone	ND	10	"				36-155			
Acrolein	ND	10	"				10-238			
Acrylonitrile	ND	5.0	"				66-141			
Benzene	ND	5.0	"				77-127			
Bromobenzene	ND	5.0	"				77-129			
Bromochloromethane	ND	5.0	"				74-129			
Bromodichloromethane	ND	5.0	"				81-124			
Bromoform	ND	5.0	"				80-136			
Bromomethane	ND	5.0	"				32-177			
Carbon disulfide	ND	5.0	"				10-136			
Carbon tetrachloride	ND	5.0	"				66-143			
Chlorobenzene	ND	5.0	"				86-120			
Chloroethane	ND	5.0	"				51-142			
Chloroform	ND	5.0	"				76-131			
Chloromethane	ND	5.0	"				49-132			
cis-1,2-Dichloroethylene	ND	5.0	"				74-132			
cis-1,3-Dichloropropylene	ND	5.0	"				81-129			
Dibromochloromethane	ND	5.0	"				10-200			
Dibromomethane	ND	5.0	"				83-124			
Dichlorodifluoromethane	ND	5.0	"				28-158			
Ethyl Benzene	ND	5.0	"				84-125			



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21333 - EPA 5035A

LCS (BL21333-BS2)

Prepared & Analyzed: 12/29/2022

Ethyl Ether	570	50	ug/kg wet				70-130				
Ethyl tert-butyl ether (ETBE)	ND	8.0	"				70-130				
Hexachlorobutadiene	ND	5.0	"				83-133				
Iodomethane	ND	5.0	"				70-130				
Isopropylbenzene	ND	5.0	"				81-127				
Methyl Methacrylate	ND	5.0	"				79-125				
Methyl tert-butyl ether (MTBE)	ND	5.0	"				74-131				
Methylene chloride	ND	10	"				57-141				
Naphthalene	ND	10	"				86-141				
n-Butylbenzene	ND	5.0	"				80-130				
n-Propylbenzene	ND	5.0	"				74-136				
o-Xylene	ND	5.0	"				83-123				
p- & m- Xylenes	ND	10	"				82-128				
p-Diethylbenzene	ND	5.0	"				70-144				
p-Ethyltoluene	ND	5.0	"				84-123				
p-Isopropyltoluene	ND	5.0	"				85-125				
sec-Butylbenzene	ND	5.0	"				83-125				
Styrene	ND	5.0	"				86-126				
tert-Amyl methyl ether (TAME)	ND	8.0	"				70-130				
tert-Butylbenzene	ND	5.0	"				80-127				
Tetrachloroethylene	ND	5.0	"				80-129				
Tetrahydrofuran	ND	10	"				64-137				
Toluene	ND	5.0	"				85-121				
trans-1,2-Dichloroethylene	ND	5.0	"				72-132				
trans-1,3-Dichloropropylene	ND	5.0	"				78-132				
Trichloroethylene	ND	5.0	"				84-123				
Trichlorofluoromethane	ND	5.0	"				62-140				
Vinyl acetate	ND	5.0	"				67-136				
Vinyl Chloride	ND	5.0	"				52-130				
Allyl chloride	ND	5.0	"				70-130				
n-butyl acetate	65		ug/L	50.0		131	70-130	High Bias			
Chlorodifluoromethane (Freon 22)	560		"	50.0		NR	70-130	High Bias			
cis-decahydronaphthalene	49		"	50.0		98.5	70-130				
trans-decahydronaphthalene	48		"	50.0		96.8	70-130				
n-Decane	68	5.0	ug/kg wet				70-130				
Ethyl Methacrylate	ND	5.0	"				70-130				
Hexachloroethane	ND	5.0	"				70-130				
n-Hexane	66		ug/L	50.0		133	70-130	High Bias			
Limonene	51		"	50.0		102	70-130				
Nitrobenzene	ND	5.0	ug/kg wet				70-130				
2-Nitropropane	ND	5.0	"				70-130				
n-Nonane	80		ug/L	50.0		160	70-130	High Bias			
n-octane	78		"	50.0		155	70-130	High Bias			
n-undecane	68		"	50.0		136	70-130	High Bias			
Surrogate: SURR: 1,2-Dichloroethane-d4	65.1		"	50.0		130	77-125				
Surrogate: SURR: Toluene-d8	53.0		"	50.0		106	85-120				
Surrogate: SURR: p-Bromofluorobenzene	57.0		"	50.0		114	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL21333 - EPA 5035A											
LCS Dup (BL21333-BSD1)						Prepared & Analyzed: 12/29/2022					
1,1,1,2-Tetrachloroethane	50		ug/L	50.0		99.1	75-129		4.54	30	
1,1,1-Trichloroethane	60		"	50.0		119	71-137		1.50	30	
1,1,2,2-Tetrachloroethane	59		"	50.0		119	79-129		3.71	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	51		"	50.0		102	58-146		0.940	30	
1,1,2-Trichloroethane	53		"	50.0		106	83-123		2.82	30	
1,1-Dichloroethane	53		"	50.0		105	75-130		0.341	30	
1,1-Dichloroethylene	50		"	50.0		99.1	64-137		3.82	30	
1,1-Dichloropropylene	56		"	50.0		112	77-127		0.924	30	
1,2,3-Trichlorobenzene	50		"	50.0		101	81-140		3.32	30	
1,2,3-Trichloropropane	55		"	50.0		110	81-126		3.11	30	
1,2,4,5-Tetramethylbenzene	60		"	50.0		121	63-156		1.57	30	
1,2,4-Trichlorobenzene	53		"	50.0		106	80-141		2.86	30	
1,2,4-Trimethylbenzene	53		"	50.0		106	84-125		2.42	30	
1,2-Dibromo-3-chloropropane	62		"	50.0		123	74-142		8.04	30	
1,2-Dibromoethane	57		"	50.0		113	86-123		1.35	30	
1,2-Dichlorobenzene	48		"	50.0		95.8	85-122		2.70	30	
1,2-Dichloroethane	58		"	50.0		115	71-133		0.295	30	
1,2-Dichloropropane	54		"	50.0		108	81-122		0.425	30	
1,3,5-Trimethylbenzene	51		"	50.0		103	82-126		2.23	30	
1,3-Dichlorobenzene	49		"	50.0		97.4	84-124		2.67	30	
1,3-Dichloropropane	55		"	50.0		111	83-123		1.11	30	
1,4-Dichlorobenzene	49		"	50.0		97.9	84-124		2.70	30	
1,4-Dioxane	1200		"	1050		116	10-228		0.220	30	
2,2-Dichloropropane	67		"	50.0		134	67-136		3.48	30	
2-Butanone	62		"	50.0		124	58-147		0.482	30	
2-Chloroethylvinyl ether	63		"	50.0		127	10-166		1.72	30	
2-Chlorotoluene	55		"	50.0		110	78-127		1.67	30	
2-Hexanone	58		"	50.0		115	70-139		7.30	30	
4-Chlorotoluene	51		"	50.0		102	79-125		1.15	30	
4-Methyl-2-pentanone	56		"	50.0		111	72-132		7.62	30	
Acetone	54		"	50.0		107	36-155		0.502	30	
Acrolein	39		"	50.0		77.8	10-238		2.74	30	
Acrylonitrile	48		"	50.0		95.5	66-141		0.522	30	
Benzene	55		"	50.0		111	77-127		0.216	30	
Bromobenzene	56		"	50.0		113	77-129		2.23	30	
Bromochloromethane	60		"	50.0		120	74-129		1.98	30	
Bromodichloromethane	56		"	50.0		112	81-124		1.88	30	
Bromoform	45		"	50.0		90.0	80-136		1.32	30	
Bromomethane	44		"	50.0		87.7	32-177		0.389	30	
Carbon disulfide	58		"	50.0		116	10-136		7.00	30	
Carbon tetrachloride	57		"	50.0		114	66-143		2.92	30	
Chlorobenzene	53		"	50.0		105	86-120		2.70	30	
Chloroethane	50		"	50.0		100	51-142		4.06	30	
Chloroform	56		"	50.0		112	76-131		1.82	30	
Chloromethane	48		"	50.0		96.5	49-132		3.44	30	
cis-1,2-Dichloroethylene	58		"	50.0		116	74-132		9.74	30	
cis-1,3-Dichloropropylene	60		"	50.0		120	81-129		2.80	30	
Dibromochloromethane	53		"	50.0		107	10-200		2.70	30	
Dibromomethane	54		"	50.0		109	83-124		0.659	30	
Dichlorodifluoromethane	47		"	50.0		93.2	28-158		2.44	30	
Ethyl Benzene	52		"	50.0		103	84-125		1.59	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL21333 - EPA 5035A											
LCS Dup (BL21333-BSD1)						Prepared & Analyzed: 12/29/2022					
Ethyl Ether	ND	50	ug/kg wet				70-130			30	
Ethyl tert-butyl ether (ETBE)	62		ug/L	50.0		123	70-130		1.50	30	
Hexachlorobutadiene	48		"	50.0		96.1	83-133		2.89	30	
Iodomethane	68		"	50.0		136	70-130	High Bias	4.11	30	
Isopropylbenzene	55		"	50.0		111	81-127		2.09	30	
Methyl Methacrylate	54		"	50.0		109	79-125		3.40	30	
Methyl tert-butyl ether (MTBE)	61		"	50.0		122	74-131		0.246	30	
Methylene chloride	53		"	50.0		105	57-141		0.342	30	
Naphthalene	56		"	50.0		111	86-141		3.72	30	
n-Butylbenzene	54		"	50.0		108	80-130		2.32	30	
n-Propylbenzene	56		"	50.0		112	74-136		1.63	30	
o-Xylene	53		"	50.0		106	83-123		2.04	30	
p- & m- Xylenes	100		"	100		101	82-128		1.93	30	
p-Diethylbenzene	58		"	50.0		116	70-144		0.0860	30	
p-Ethyltoluene	57		"	50.0		115	84-123		2.65	30	
p-Isopropyltoluene	51		"	50.0		102	85-125		2.43	30	
sec-Butylbenzene	54		"	50.0		108	83-125		2.40	30	
Styrene	53		"	50.0		106	86-126		2.25	30	
tert-Amyl methyl ether (TAME)	74		"	50.0		147	70-130	High Bias	2.13	30	
tert-Butylbenzene	53		"	50.0		106	80-127		2.74	30	
Tetrachloroethylene	40		"	50.0		80.0	80-129		1.14	30	
Tetrahydrofuran	57		"	50.0		114	64-137		2.94	30	
Toluene	51		"	50.0		101	85-121		1.58	30	
trans-1,2-Dichloroethylene	55		"	50.0		110	72-132		0.199	30	
trans-1,3-Dichloropropylene	63		"	50.0		125	78-132		4.62	30	
Trichloroethylene	53		"	50.0		105	84-123		2.68	30	
Trichlorofluoromethane	54		"	50.0		108	62-140		1.62	30	
Vinyl acetate	71		"	50.0		143	67-136	High Bias	9.75	30	
Vinyl Chloride	48		"	50.0		95.2	52-130		0.273	30	
Allyl chloride	63		"	50.0		125	70-130		3.88	30	
n-butyl acetate	ND	5.0	ug/kg wet				70-130			30	
Chlorodifluoromethane (Freon 22)	ND	5.0	"				70-130			30	
cis-decahydronaphthalene	ND	5.0	"				70-130			30	
trans-decahydronaphthalene	ND	5.0	"				70-130			30	
n-Decane	ND	5.0	"				70-130			30	
Ethyl Methacrylate	58		ug/L	50.0		115	70-130		0.521	30	
Hexachloroethane	ND	5.0	ug/kg wet				70-130			30	
n-Hexane	ND	5.0	"				70-130			30	
Limonene	ND	5.0	"				70-130			30	
Nitrobenzene	50		ug/L	50.0		99.4	70-130		0.961	30	
2-Nitropropane	61	5.0	ug/kg wet				70-130		16.0	30	
n-Nonane	ND	5.0	"				70-130			30	
n-octane	ND	5.0	"				70-130			30	
n-undecane	ND	5.0	"				70-130			30	
Surrogate: SURR: 1,2-Dichloroethane-d4	54.1		ug/L	50.0		108	77-125				
Surrogate: SURR: Toluene-d8	48.6		"	50.0		97.1	85-120				
Surrogate: SURR: p-Bromofluorobenzene	58.1		"	50.0		116	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL21333 - EPA 5035A											
LCS Dup (BL21333-BSD2)						Prepared & Analyzed: 12/29/2022					
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet				75-129			30	
1,1,1-Trichloroethane	ND	5.0	"				71-137			30	
1,1,2,2-Tetrachloroethane	ND	5.0	"				79-129			30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"				58-146			30	
1,1,2-Trichloroethane	ND	5.0	"				83-123			30	
1,1-Dichloroethane	ND	5.0	"				75-130			30	
1,1-Dichloroethylene	ND	5.0	"				64-137			30	
1,1-Dichloropropylene	ND	5.0	"				77-127			30	
1,2,3-Trichlorobenzene	ND	5.0	"				81-140			30	
1,2,3-Trichloropropane	ND	5.0	"				81-126			30	
1,2,4,5-Tetramethylbenzene	ND	5.0	"				63-156			30	
1,2,4-Trichlorobenzene	ND	5.0	"				80-141			30	
1,2,4-Trimethylbenzene	ND	5.0	"				84-125			30	
1,2-Dibromo-3-chloropropane	ND	5.0	"				74-142			30	
1,2-Dibromoethane	ND	5.0	"				86-123			30	
1,2-Dichlorobenzene	ND	5.0	"				85-122			30	
1,2-Dichloroethane	ND	5.0	"				71-133			30	
1,2-Dichloropropane	ND	5.0	"				81-122			30	
1,3,5-Trimethylbenzene	ND	5.0	"				82-126			30	
1,3-Dichlorobenzene	ND	5.0	"				84-124			30	
1,3-Dichloropropane	ND	5.0	"				83-123			30	
1,4-Dichlorobenzene	ND	5.0	"				84-124			30	
1,4-Dioxane	ND	100	"				10-228			30	
2,2-Dichloropropane	ND	5.0	"				67-136			30	
2-Butanone	ND	5.0	"				58-147			30	
2-Chloroethylvinyl ether	ND	20	"				10-166			30	
2-Chlorotoluene	ND	5.0	"				78-127			30	
2-Hexanone	ND	5.0	"				70-139			30	
4-Chlorotoluene	ND	5.0	"				79-125			30	
4-Methyl-2-pentanone	ND	5.0	"				72-132			30	
Acetone	ND	10	"				36-155			30	
Acrolein	ND	10	"				10-238			30	
Acrylonitrile	ND	5.0	"				66-141			30	
Benzene	ND	5.0	"				77-127			30	
Bromobenzene	ND	5.0	"				77-129			30	
Bromochloromethane	ND	5.0	"				74-129			30	
Bromodichloromethane	ND	5.0	"				81-124			30	
Bromoform	ND	5.0	"				80-136			30	
Bromomethane	ND	5.0	"				32-177			30	
Carbon disulfide	ND	5.0	"				10-136			30	
Carbon tetrachloride	ND	5.0	"				66-143			30	
Chlorobenzene	ND	5.0	"				86-120			30	
Chloroethane	ND	5.0	"				51-142			30	
Chloroform	ND	5.0	"				76-131			30	
Chloromethane	ND	5.0	"				49-132			30	
cis-1,2-Dichloroethylene	ND	5.0	"				74-132			30	
cis-1,3-Dichloropropylene	ND	5.0	"				81-129			30	
Dibromochloromethane	ND	5.0	"				10-200			30	
Dibromomethane	ND	5.0	"				83-124			30	
Dichlorodifluoromethane	ND	5.0	"				28-158			30	
Ethyl Benzene	ND	5.0	"				84-125			30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL21333 - EPA 5035A											
LCS Dup (BL21333-BSD2)						Prepared & Analyzed: 12/29/2022					
Ethyl Ether	570	50	ug/kg wet				70-130		0.599	30	
Ethyl tert-butyl ether (ETBE)	ND	8.0	"				70-130			30	
Hexachlorobutadiene	ND	5.0	"				83-133			30	
Iodomethane	ND	5.0	"				70-130			30	
Isopropylbenzene	ND	5.0	"				81-127			30	
Methyl Methacrylate	ND	5.0	"				79-125			30	
Methyl tert-butyl ether (MTBE)	ND	5.0	"				74-131			30	
Methylene chloride	ND	10	"				57-141			30	
Naphthalene	ND	10	"				86-141			30	
n-Butylbenzene	ND	5.0	"				80-130			30	
n-Propylbenzene	ND	5.0	"				74-136			30	
o-Xylene	ND	5.0	"				83-123			30	
p- & m- Xylenes	ND	10	"				82-128			30	
p-Diethylbenzene	ND	5.0	"				70-144			30	
p-Ethyltoluene	ND	5.0	"				84-123			30	
p-Isopropyltoluene	ND	5.0	"				85-125			30	
sec-Butylbenzene	ND	5.0	"				83-125			30	
Styrene	ND	5.0	"				86-126			30	
tert-Amyl methyl ether (TAME)	ND	8.0	"				70-130			30	
tert-Butylbenzene	ND	5.0	"				80-127			30	
Tetrachloroethylene	ND	5.0	"				80-129			30	
Tetrahydrofuran	ND	10	"				64-137			30	
Toluene	ND	5.0	"				85-121			30	
trans-1,2-Dichloroethylene	ND	5.0	"				72-132			30	
trans-1,3-Dichloropropylene	ND	5.0	"				78-132			30	
Trichloroethylene	ND	5.0	"				84-123			30	
Trichlorofluoromethane	ND	5.0	"				62-140			30	
Vinyl acetate	ND	5.0	"				67-136			30	
Vinyl Chloride	ND	5.0	"				52-130			30	
Allyl chloride	ND	5.0	"				70-130			30	
n-butyl acetate	68		ug/L	50.0		136	70-130	High Bias	4.03	30	
Chlorodifluoromethane (Freon 22)	550		"	50.0		NR	70-130	High Bias	1.69	30	
cis-decahydronaphthalene	50		"	50.0		99.3	70-130		0.728	30	
trans-decahydronaphthalene	50		"	50.0		100	70-130		3.43	30	
n-Decane	69	5.0	ug/kg wet				70-130		2.20	30	
Ethyl Methacrylate	ND	5.0	"				70-130			30	
Hexachloroethane	ND	5.0	"				70-130			30	
n-Hexane	64		ug/L	50.0		128	70-130		3.48	30	
Limonene	52		"	50.0		104	70-130		1.93	30	
Nitrobenzene	ND	5.0	ug/kg wet				70-130			30	
2-Nitropropane	ND	5.0	"				70-130			30	
n-Nonane	82		ug/L	50.0		164	70-130	High Bias	2.32	30	
n-octane	78		"	50.0		157	70-130	High Bias	0.795	30	
n-undecane	71		"	50.0		142	70-130	High Bias	4.29	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	64.7		"	50.0		129	77-125				
Surrogate: SURR: Toluene-d8	54.0		"	50.0		108	85-120				
Surrogate: SURR: p-Bromofluorobenzene	57.1		"	50.0		114	76-130				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21473 - EPA 3550C

Blank (BL21473-BLK1)

Prepared: 12/24/2022 Analyzed: 12/26/2022

Acenaphthene	ND	41.7	ug/kg wet								
Anthracene	ND	41.7	"								
Benzo(a)anthracene	ND	41.7	"								
Benzo(a)pyrene	ND	41.7	"								
Benzo(b)fluoranthene	ND	41.7	"								
Benzo(g,h,i)perylene	ND	41.7	"								
Benzo(k)fluoranthene	ND	41.7	"								
Chrysene	ND	41.7	"								
Dibenzo(a,h)anthracene	ND	41.7	"								
Fluoranthene	ND	41.7	"								
Fluorene	ND	41.7	"								
Indeno(1,2,3-cd)pyrene	ND	41.7	"								
Phenanthrene	ND	41.7	"								
Pyrene	ND	41.7	"								
Surrogate: SURR: Nitrobenzene-d5	482		"	833		57.8	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	438		"	833		52.6	21-113				
Surrogate: SURR: Terphenyl-d14	466		"	833		56.0	24-116				

LCS (BL21473-BS1)

Prepared: 12/24/2022 Analyzed: 12/26/2022

Acenaphthene	351	41.7	ug/kg wet	833		42.2	17-124				
Anthracene	381	41.7	"	833		45.7	24-124				
Benzo(a)anthracene	381	41.7	"	833		45.7	25-134				
Benzo(a)pyrene	391	41.7	"	833		46.9	29-144				
Benzo(b)fluoranthene	410	41.7	"	833		49.2	20-151				
Benzo(g,h,i)perylene	409	41.7	"	833		49.1	10-153				
Benzo(k)fluoranthene	417	41.7	"	833		50.0	10-148				
Chrysene	382	41.7	"	833		45.8	24-116				
Dibenzo(a,h)anthracene	394	41.7	"	833		47.3	17-147				
Fluoranthene	372	41.7	"	833		44.6	36-125				
Fluorene	367	41.7	"	833		44.1	16-130				
Indeno(1,2,3-cd)pyrene	396	41.7	"	833		47.5	10-155				
Phenanthrene	373	41.7	"	833		44.8	24-123				
Pyrene	342	41.7	"	833		41.1	24-132				
Surrogate: SURR: Nitrobenzene-d5	385		"	833		46.2	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	346		"	833		41.6	21-113				
Surrogate: SURR: Terphenyl-d14	373		"	833		44.8	24-116				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21473 - EPA 3550C

Matrix Spike (BL21473-MS1)		*Source sample: 22L1128-05 (Matrix Spike)					Prepared: 12/24/2022 Analyzed: 12/26/2022				
Acenaphthene	425	95.0	ug/kg dry	950	ND	44.7	13-133				
Anthracene	494	95.0	"	950	ND	52.0	27-128				
Benzo(a)anthracene	501	95.0	"	950	ND	52.7	20-147				
Benzo(a)pyrene	508	95.0	"	950	ND	53.5	18-153				
Benzo(b)fluoranthene	542	95.0	"	950	ND	57.0	10-163				
Benzo(g,h,i)perylene	520	95.0	"	950	ND	54.7	10-157				
Benzo(k)fluoranthene	556	95.0	"	950	ND	58.6	10-157				
Chrysene	513	95.0	"	950	ND	54.0	18-133				
Dibenzo(a,h)anthracene	497	95.0	"	950	ND	52.3	10-146				
Fluoranthene	492	95.0	"	950	ND	51.8	10-155				
Fluorene	454	95.0	"	950	ND	47.8	12-150				
Indeno(1,2,3-cd)pyrene	504	95.0	"	950	ND	53.1	10-155				
Phenanthrene	485	95.0	"	950	ND	51.0	10-151				
Pyrene	443	95.0	"	950	ND	46.6	13-148				
Surrogate: SURR: Nitrobenzene-d5		459	"	950		48.3	22-108				
Surrogate: SURR: 2-Fluorobiphenyl		429	"	950		45.1	21-113				
Surrogate: SURR: Terphenyl-d14		501	"	950		52.8	24-116				

Matrix Spike Dup (BL21473-MSD1)		*Source sample: 22L1128-05 (Matrix Spike Dup)					Prepared: 12/24/2022 Analyzed: 12/26/2022				
Acenaphthene	354	95.0	ug/kg dry	950	ND	37.3	13-133	18.1	30		
Anthracene	393	95.0	"	950	ND	41.4	27-128	22.8	30		
Benzo(a)anthracene	384	95.0	"	950	ND	40.4	20-147	26.5	30		
Benzo(a)pyrene	394	95.0	"	950	ND	41.4	18-153	25.4	30		
Benzo(b)fluoranthene	410	95.0	"	950	ND	43.1	10-163	27.8	30		
Benzo(g,h,i)perylene	399	95.0	"	950	ND	42.0	10-157	26.3	30		
Benzo(k)fluoranthene	425	95.0	"	950	ND	44.8	10-157	26.6	30		
Chrysene	394	95.0	"	950	ND	41.5	18-133	26.1	30		
Dibenzo(a,h)anthracene	377	95.0	"	950	ND	39.7	10-146	27.5	30		
Fluoranthene	382	95.0	"	950	ND	40.2	10-155	25.2	30		
Fluorene	369	95.0	"	950	ND	38.9	12-150	20.5	30		
Indeno(1,2,3-cd)pyrene	381	95.0	"	950	ND	40.2	10-155	27.8	30		
Phenanthrene	389	95.0	"	950	ND	41.0	10-151	21.9	30		
Pyrene	343	95.0	"	950	ND	36.2	13-148	25.3	30		
Surrogate: SURR: Nitrobenzene-d5		394	"	950		41.5	22-108				
Surrogate: SURR: 2-Fluorobiphenyl		365	"	950		38.4	21-113				
Surrogate: SURR: Terphenyl-d14		406	"	950		42.7	24-116				



Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21455 - EPA 3550C

Blank (BL21455-BLK2)

Prepared: 12/23/2022 Analyzed: 12/28/2022

Aroclor 1016	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
Surrogate: Tetrachloro-m-xylene	0.0585		"	0.0664		88.0	30-120				
Surrogate: Decachlorobiphenyl	0.0535		"	0.0664		80.5	30-120				

LCS (BL21455-BS2)

Prepared: 12/23/2022 Analyzed: 12/28/2022

Aroclor 1016	0.319	0.0166	mg/kg wet	0.332		96.2	40-130				
Aroclor 1260	0.315	0.0166	"	0.332		94.8	40-130				
Surrogate: Tetrachloro-m-xylene	0.0708		"	0.0664		106	30-120				
Surrogate: Decachlorobiphenyl	0.0701		"	0.0664		106	30-120				

Matrix Spike (BL21455-MS2)

*Source sample: 22L1181-09 (Matrix Spike)

Prepared: 12/23/2022 Analyzed: 12/29/2022

Aroclor 1016	0.174	0.0174	mg/kg dry	0.348	ND	50.0	40-140				
Aroclor 1260	0.284	0.0174	"	0.348	ND	81.8	40-140				
Surrogate: Tetrachloro-m-xylene	0.0619		"	0.0695		89.0	30-120				
Surrogate: Decachlorobiphenyl	0.0591		"	0.0695		85.0	30-120				

Matrix Spike Dup (BL21455-MSD2)

*Source sample: 22L1181-09 (Matrix Spike Dup)

Prepared: 12/23/2022 Analyzed: 12/29/2022

Aroclor 1016	0.129	0.0174	mg/kg dry	0.348	ND	37.0	40-140	Low Bias	29.7	50	
Aroclor 1260	0.199	0.0174	"	0.348	ND	57.4	40-140		35.1	50	
Surrogate: Tetrachloro-m-xylene	0.0622		"	0.0695		89.5	30-120				
Surrogate: Decachlorobiphenyl	0.0580		"	0.0695		83.5	30-120				



Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch S2L2849 - BL21455

Aroclor Reference (S2L2849-ARC1)

Prepared & Analyzed: 12/27/2022

Surrogate: Tetrachloro-m-xylene	0.200		ug/mL	0.200		100					
Surrogate: Decachlorobiphenyl	0.224		"	0.200		112					

Batch S2L2937 - BL21670

Aroclor Reference (S2L2937-ARC1)

Prepared & Analyzed: 12/28/2022

Surrogate: Tetrachloro-m-xylene	0.206		ug/mL	0.200		103					
Surrogate: Decachlorobiphenyl	0.194		"	0.200		97.0					



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21631 - EPA 3050B

Blank (BL21631-BLK1)

Prepared: 12/28/2022 Analyzed: 12/29/2022

Arsenic	ND	1.25	mg/kg wet
Barium	ND	2.08	"
Beryllium	ND	0.042	"
Cadmium	ND	0.250	"
Chromium	ND	0.417	"
Copper	ND	1.67	"
Lead	ND	0.417	"
Nickel	ND	0.833	"
Selenium	ND	2.08	"
Silver	ND	0.417	"

Duplicate (BL21631-DUP1)

*Source sample: 22L1181-02 (Duplicate)

Prepared: 12/28/2022 Analyzed: 12/29/2022

Arsenic	3.01	1.33	mg/kg dry	3.21	6.53	35
Barium	12.7	2.22	"	17.6	32.3	35
Beryllium	0.216	0.044	"	0.228	5.48	35
Cadmium	ND	0.266	"	ND		35
Chromium	7.18	0.444	"	9.41	27.0	35
Copper	7.70	1.78	"	7.62	1.02	35
Lead	18.6	0.444	"	15.7	17.3	35
Nickel	4.95	0.888	"	4.61	6.95	35
Selenium	ND	2.22	"	ND		35
Silver	ND	0.444	"	ND		35

Matrix Spike (BL21631-MS1)

*Source sample: 22L1181-02 (Matrix Spike)

Prepared: 12/28/2022 Analyzed: 12/29/2022

Arsenic	177	1.33	mg/kg dry	178	3.21	98.0	75-125
Barium	208	2.22	"	178	17.6	107	75-125
Beryllium	4.86	0.044	"	4.44	0.228	104	75-125
Cadmium	4.27	0.266	"	4.44	ND	96.1	75-125
Chromium	26.0	0.444	"	17.8	9.41	93.3	75-125
Copper	30.7	1.78	"	22.2	7.62	104	75-125
Lead	64.9	0.444	"	44.4	15.7	111	75-125
Nickel	54.7	0.888	"	44.4	4.61	113	75-125
Selenium	133	2.22	"	178	ND	74.9	75-125 Low Bias
Silver	2.34	0.444	"	4.44	ND	52.6	75-125 Low Bias



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21631 - EPA 3050B

Post Spike (BL21631-PS1)		*Source sample: 22L1181-02 (Post Spike)					Prepared: 12/28/2022 Analyzed: 12/29/2022				
Arsenic	2.41		ug/mL	2.00	0.036	119	75-125				
Barium	2.81		"	2.00	0.198	131	75-125	High Bias			
Beryllium	0.064		"	0.0500	0.003	123	75-125				
Cadmium	0.058		"	0.0500	0.00002	116	75-125				
Chromium	0.353		"	0.200	0.106	123	75-125				
Copper	0.408		"	0.250	0.086	129	75-125	High Bias			
Lead	0.791		"	0.500	0.177	123	75-125				
Nickel	0.688		"	0.500	0.052	127	75-125	High Bias			
Selenium	1.90		"	2.00	-0.078	95.0	75-125				
Silver	-0.012		"	0.0500	-0.034		75-125	Low Bias			

Reference (BL21631-SRM1)		Prepared: 12/28/2022 Analyzed: 12/29/2022				
Arsenic	92.6	1.25	mg/kg wet	87.4	106	70-130.4
Barium	382	2.08	"	347	110	75.2-130.3
Beryllium	109	0.042	"	103	106	74.8-132
Cadmium	153	0.250	"	160	95.6	75-145.6
Chromium	239	0.417	"	231	103	70.1-134.2
Copper	164	1.67	"	144	114	75-126.4
Lead	269	0.417	"	266	101	74.1-125.9
Nickel	384	0.833	"	350	110	70-144
Selenium	89.4	2.08	"	130	68.7	66.9-133.8
Silver	57.8	0.417	"	57.1	101	70.2-129.8



Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL21688 - EPA 7473 soil											
Blank (BL21688-BLK1)								Prepared & Analyzed: 12/29/2022			
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BL21688-DUP1)								Prepared & Analyzed: 12/29/2022			
Mercury	0.0478	0.0349	mg/kg dry		0.0669				33.3	35	
Matrix Spike (BL21688-MS1)								Prepared & Analyzed: 12/29/2022			
Mercury	0.490		mg/kg	0.500	0.0575	86.5	75-125				
Reference (BL21688-SRM1)								Prepared & Analyzed: 12/29/2022			
Mercury	23.699		mg/kg	27.2		87.1	59.9-140.1				



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21612 - % Solids Prep

Duplicate (BL21612-DUP1)		*Source sample: 22L1181-08 (Duplicate)						Prepared & Analyzed: 12/28/2022			
% Solids	93.8	0.100	%		94.6				0.764	20	



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
22L1175-01	FP001_9ft	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
22L1175-02	FP002_8ft	40mL Pre-Tared Vial + 10mL MeOH; 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.
S-03	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. This effect was confirmed by reanalysis.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
M-PS	This Element exhibited recovery outside control limits for the Post Spike.
M-CRL	The RL check for this element recovered outside of control limits.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.



If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

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

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



YORK Project No.

2221175

Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615 - 132-02 89th Ave Queens, NY 11418 - 56 Church Hill Rd. #2 Newtown, CT 06470
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Page 1 of 1

[illegible]



Technical Report

prepared for:

P.W. Grosser Consulting

630 Johnson Avenue, Suite 7

Bohemia NY, 11716

Attention: Thomas Melia

Report Date: 12/30/2022

Client Project ID: SHD2201 BOMARC

York Project (SDG) No.: 22L1187



CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037

New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

Report Date: 12/30/2022
Client Project ID: SHD2201 BOMARC
York Project (SDG) No.: 22L1187

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

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 December 21, 2022 and listed below. The project was identified as your project: **SHD2201 BOMARC**.

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>
22L1187-01	S-16	Soil	12/21/2022	12/21/2022
22L1187-02	S-17 DW	Soil	12/21/2022	12/21/2022
22L1187-03	S-18	Soil	12/21/2022	12/21/2022
22L1187-04	S-3	Soil	12/21/2022	12/21/2022
22L1187-05	S-2	Soil	12/21/2022	12/21/2022

General Notes for York Project (SDG) No.: 22L1187

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

Approved By:



Cassie L. Mosher
Laboratory Manager

Date: 12/30/2022





Sample Information

Client Sample ID: S-16

York Sample ID: 22L1187-01

York Project (SDG) No.

22L1187

Client Project ID

SHD2201 BOMARC

Matrix

Soil

Collection Date/Time

December 21, 2022 9:15 am

Date Received

12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

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		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	12/23/2022 09:39	12/23/2022 14:31	BMC
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:31	BMC
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:31	BMC
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/23/2022 09:39	12/23/2022 14:31	BMC
95-93-2	* 1,2,4,5-Tetramethylbenzene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:31	BMC
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:31	BMC
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:31	BMC



Sample Information

Client Sample ID: S-16

York Sample ID: 22L1187-01

York Project (SDG) No.
22L1187

Client Project ID
SHD2201 BOMARC

Matrix
Soil

Collection Date/Time
December 21, 2022 9:15 am

Date Received
12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
123-91-1	1,4-Dioxane	ND		ug/kg dry	100	200	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:31	BMC
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/23/2022 09:39	12/23/2022 14:31	BMC
78-93-3	2-Butanone	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
110-75-8	2-Chloroethylvinyl ether	ND		ug/kg dry	20	40	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:31	BMC
95-49-8	2-Chlorotoluene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
591-78-6	2-Hexanone	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
106-43-4	4-Chlorotoluene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
108-10-1	4-Methyl-2-pentanone	7.5	J	ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
67-64-1	Acetone	25		ug/kg dry	10	20	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
107-02-8	Acrolein	ND		ug/kg dry	10	20	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
107-13-1	Acrylonitrile	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
71-43-2	Benzene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
108-86-1	Bromobenzene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:31	BMC
74-97-5	Bromochloromethane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:31	BMC
75-27-4	Bromodichloromethane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
75-25-2	Bromoform	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
74-83-9	Bromomethane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
75-15-0	Carbon disulfide	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
56-23-5	Carbon tetrachloride	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
108-90-7	Chlorobenzene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
75-00-3	Chloroethane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC



Sample Information

Client Sample ID: S-16

York Sample ID: 22L1187-01

York Project (SDG) No.

22L1187

Client Project ID

SHD2201 BOMARC

Matrix

Soil

Collection Date/Time

December 21, 2022 9:15 am

Date Received

12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

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
67-66-3	Chloroform	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
74-87-3	Chloromethane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
124-48-1	Dibromochloromethane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:31	BMC
74-95-3	Dibromomethane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:31	BMC
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:31	BMC
100-41-4	Ethyl Benzene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
60-29-7	* Ethyl Ether	ND		ug/kg dry	50	100	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:31	BMC
637-92-3	* Ethyl tert-butyl ether (ETBE)	ND		ug/kg dry	8.0	16	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:31	BMC
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:31	BMC
74-88-4	* Iodomethane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:31	BMC
98-82-8	Isopropylbenzene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
80-62-6	Methyl Methacrylate	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:31	BMC
75-09-2	Methylene chloride	ND		ug/kg dry	10	20	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
91-20-3	Naphthalene	ND		ug/kg dry	5.0	20	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:31	BMC
104-51-8	n-Butylbenzene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
103-65-1	n-Propylbenzene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
95-47-6	o-Xylene	5.2	J	ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	12/23/2022 09:39	12/23/2022 14:31	BMC
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	10	20	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	12/23/2022 09:39	12/23/2022 14:31	BMC
105-05-5	* p-Diethylbenzene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:31	BMC



Sample Information

Client Sample ID: S-16

York Sample ID: 22L1187-01

York Project (SDG) No.

22L1187

Client Project ID

SHD2201 BOMARC

Matrix

Soil

Collection Date/Time

December 21, 2022 9:15 am

Date Received

12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

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
622-96-8	* p-Ethyltoluene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:31	BMC
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
135-98-8	sec-Butylbenzene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
100-42-5	Styrene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
994-05-8	* tert-Amyl methyl ether (TAME)	ND		ug/kg dry	8.0	16	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:31	BMC
98-06-6	tert-Butylbenzene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
127-18-4	Tetrachloroethylene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
109-99-9	* Tetrahydrofuran	ND		ug/kg dry	10	20	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:31	BMC
108-88-3	Toluene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
79-01-6	Trichloroethylene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
108-05-4	Vinyl acetate	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:31	BMC
75-01-4	Vinyl Chloride	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:31	BMC
1330-20-7	Xylenes, Total	ND		ug/kg dry	15	30	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	12/23/2022 09:39	12/23/2022 14:31	BMC
107-05-1	* Allyl chloride	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:31	BMC
123-86-4	* n-butyl acetate	ND	CCVE	ug/kg dry	5.0	10	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:31	BMC
75-45-6	* Chlorodifluoromethane (Freon 22)	ND	CCVE	ug/kg dry	5.0	10	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:31	BMC
493-01-6	* cis-decahydronaphthalene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:31	BMC
493-02-7	* trans-decahydronaphthalene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:31	BMC
124-18-5	* n-Decane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:31	BMC



Sample Information

Client Sample ID: S-16

York Sample ID: 22L1187-01

York Project (SDG) No.
22L1187

Client Project ID
SHD2201 BOMARC

Matrix
Soil

Collection Date/Time
December 21, 2022 9:15 am

Date Received
12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

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
97-63-2	* Ethyl Methacrylate	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:31	BMC
67-72-1	* Hexachloroethane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:31	BMC
110-54-3	* n-Hexane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:31	BMC
5989-27-5	* Limonene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:31	BMC
98-95-3	* Nitrobenzene	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:31	BMC
79-46-9	* 2-Nitropropane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:31	BMC
111-84-2	* n-Nonane	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:31	BMC
111-65-9	* n-octane	ND	CCVE	ug/kg dry	5.0	10	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:31	BMC
1120-21-4	* n-undecane	10	QL-02	ug/kg dry	5.0	10	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:31	BMC
556-61-6	* Methyl Isothiocyanate (TIC)	ND		ug/kg dry	100	100	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:31	BMC
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	109 %	77-125								
2037-26-5	Surrogate: SURR: Toluene-d8	103 %	85-120								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	124 %	76-130								

Semi-Volatiles, Suffolk Co. DHS App. A List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	678		ug/kg dry	283	565	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 10:48	KH
120-12-7	Anthracene	1310		ug/kg dry	283	565	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 10:48	KH
56-55-3	Benzo(a)anthracene	2860		ug/kg dry	283	565	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 10:48	KH
50-32-8	Benzo(a)pyrene	1640		ug/kg dry	283	565	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 10:48	KH
205-99-2	Benzo(b)fluoranthene	1730		ug/kg dry	283	565	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 10:48	KH
191-24-2	Benzo(g,h,i)perylene	1360		ug/kg dry	283	565	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 10:48	KH



Sample Information

Client Sample ID: S-16

York Sample ID: 22L1187-01

York Project (SDG) No.

22L1187

Client Project ID

SHD2201 BOMARC

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December 21, 2022 9:15 am

Date Received

12/21/2022

Semi-Volatiles, Suffolk Co. DHS App. A List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	Benzo(k)fluoranthene	1490		ug/kg dry	283	565	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 10:48	KH
218-01-9	Chrysene	3090		ug/kg dry	283	565	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 10:48	KH
53-70-3	Dibenzo(a,h)anthracene	388	J	ug/kg dry	283	565	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 10:48	KH
206-44-0	Fluoranthene	7120		ug/kg dry	283	565	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 10:48	KH
86-73-7	Fluorene	759		ug/kg dry	283	565	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 10:48	KH
193-39-5	Indeno(1,2,3-cd)pyrene	1610		ug/kg dry	283	565	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 10:48	KH
85-01-8	Phenanthrene	6800		ug/kg dry	283	565	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 10:48	KH
129-00-0	Pyrene	7210		ug/kg dry	283	565	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 10:48	KH
Surrogate Recoveries		Result		Acceptance Range							
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	26.0 %		22-108							
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	14.8 %	S-01	21-113							
1718-51-0	Surrogate: SURR: Terphenyl-d14	20.0 %	S-01	24-116							

PCB, 8082 MASTER

Log-in Notes:

Sample Notes:

Sample 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	11.1	500	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 14:35	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	11.1	500	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 14:35	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	11.1	500	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 14:35	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	11.1	500	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 14:35	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	11.1	500	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 14:35	BJ
11097-69-1	Aroclor 1254	326		mg/kg dry	11.1	500	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 14:35	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	11.1	500	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 14:35	BJ
1336-36-3	* Total PCBs	326		mg/kg dry	11.1	500	EPA 8082A Certifications:	12/24/2022 10:48	12/30/2022 14:35	BJ
Surrogate Recoveries		Result	Acceptance Range							



Sample Information

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PCB, 8082 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	Surrogate: Tetrachloro-m-xylene	%	S-06		30-120					
2051-24-3	Surrogate: Decachlorobiphenyl	250 %	S-06		30-120					

Metals, Suffolk Co. App. B

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
7440-38-2	Arsenic	27.8		mg/kg dry	1.70	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:12	CW
7440-39-3	Barium	235		mg/kg dry	2.83	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:12	CW
7440-41-7	Beryllium	0.141		mg/kg dry	0.057	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:12	CW
7440-43-9	Cadmium	31.7		mg/kg dry	0.340	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:12	CW
7440-47-3	Chromium	178		mg/kg dry	0.567	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:12	CW
7440-50-8	Copper	305		mg/kg dry	2.27	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:12	CW
7439-92-1	Lead	4860		mg/kg dry	0.567	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:12	CW
7440-02-0	Nickel	114		mg/kg dry	1.13	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:12	CW
7782-49-2	Selenium	ND		mg/kg dry	2.83	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:12	CW
7440-22-4	Silver	ND		mg/kg dry	0.567	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:12	CW

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	9.21		mg/kg dry	0.0408	1	EPA 7473 Certifications: CTDOH-PH-0723,NJDEP,NELAC-NY10854,PADEP	12/29/2022 14:46	12/29/2022 17:30	MR

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	73.5		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	12/28/2022 12:50	12/28/2022 15:10	LAR



Sample Information

Client Sample ID: S-16

York Sample ID: 22L1187-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

22L1187

SHD2201 BOMARC

Soil

December 21, 2022 9:15 am

12/21/2022



Sample Information

Client Sample ID: S-17 DW

York Sample ID: 22L1187-02

York Project (SDG) No.

22L1187

Client Project ID

SHD2201 BOMARC

Matrix

Soil

Collection Date/Time

December 21, 2022 10:30 am

Date Received

12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

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		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	12/23/2022 09:39	12/23/2022 14:57	BMC
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:57	BMC
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:57	BMC
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/23/2022 09:39	12/23/2022 14:57	BMC
95-93-2	* 1,2,4,5-Tetramethylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:57	BMC
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:57	BMC



Sample Information

Client Sample ID: S-17 DW

York Sample ID: 22L1187-02

York Project (SDG) No.

22L1187

Client Project ID

SHD2201 BOMARC

Matrix

Soil

Collection Date/Time

December 21, 2022 10:30 am

Date Received

12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
123-91-1	1,4-Dioxane	ND		ug/kg dry	57	110	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:57	BMC
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/23/2022 09:39	12/23/2022 14:57	BMC
78-93-3	2-Butanone	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
110-75-8	2-Chloroethylvinyl ether	ND		ug/kg dry	11	23	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:57	BMC
95-49-8	2-Chlorotoluene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
591-78-6	2-Hexanone	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
106-43-4	4-Chlorotoluene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
67-64-1	Acetone	21		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
107-02-8	Acrolein	ND		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
107-13-1	Acrylonitrile	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
71-43-2	Benzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
108-86-1	Bromobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:57	BMC
74-97-5	Bromochloromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:57	BMC
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
75-25-2	Bromoform	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
74-83-9	Bromomethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
75-15-0	Carbon disulfide	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
108-90-7	Chlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
75-00-3	Chloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC



Sample Information

Client Sample ID: S-17 DW

York Sample ID: 22L1187-02

York Project (SDG) No.

22L1187

Client Project ID

SHD2201 BOMARC

Matrix

Soil

Collection Date/Time

December 21, 2022 10:30 am

Date Received

12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

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
67-66-3	Chloroform	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
74-87-3	Chloromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:57	BMC
74-95-3	Dibromomethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:57	BMC
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:57	BMC
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
60-29-7	* Ethyl Ether	ND		ug/kg dry	29	57	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
637-92-3	* Ethyl tert-butyl ether (ETBE)	ND		ug/kg dry	4.6	9.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:57	BMC
74-88-4	* Iodomethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
80-62-6	Methyl Methacrylate	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:57	BMC
75-09-2	Methylene chloride	ND		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
91-20-3	Naphthalene	ND		ug/kg dry	2.9	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 14:57	BMC
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
95-47-6	o-Xylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 14:57	BMC
105-05-5	* p-Diethylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC



Sample Information

Client Sample ID: S-17 DW

York Sample ID: 22L1187-02

York Project (SDG) No.

22L1187

Client Project ID

SHD2201 BOMARC

Matrix

Soil

Collection Date/Time

December 21, 2022 10:30 am

Date Received

12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

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
622-96-8	* p-Ethyltoluene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
100-42-5	Styrene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
994-05-8	* tert-Amyl methyl ether (TAME)	ND		ug/kg dry	4.6	9.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
109-99-9	* Tetrahydrofuran	ND		ug/kg dry	5.7	11	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
108-88-3	Toluene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
79-01-6	Trichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
108-05-4	Vinyl acetate	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.6	17	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
107-05-1	* Allyl chloride	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
123-86-4	* n-butyl acetate	ND	CCVE	ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
75-45-6	* Chlorodifluoromethane (Freon 22)	ND	CCVE	ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
493-01-6	* cis-decahydronaphthalene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
493-02-7	* trans-decahydronaphthalene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
124-18-5	* n-Decane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC



Sample Information

Client Sample ID: S-17 DW

York Sample ID: 22L1187-02

York Project (SDG) No.
22L1187

Client Project ID
SHD2201 BOMARC

Matrix
Soil

Collection Date/Time
December 21, 2022 10:30 am

Date Received
12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

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
97-63-2	* Ethyl Methacrylate	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
67-72-1	* Hexachloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
110-54-3	* n-Hexane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
5989-27-5	* Limonene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
98-95-3	* Nitrobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
79-46-9	* 2-Nitropropane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
111-84-2	* n-Nonane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
111-65-9	* n-octane	ND	CCVE	ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
1120-21-4	* n-undecane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC
556-61-6	* Methyl Isothiocyanate (TIC)	ND		ug/kg dry	57	57	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 14:57	BMC

Surrogate Recoveries		Result	Acceptance Range
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	109 %	77-125
2037-26-5	Surrogate: SURR: Toluene-d8	99.8 %	85-120
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	115 %	76-130

Semi-Volatiles, Suffolk Co. DHS App. A List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	227	452	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:18	KH
120-12-7	Anthracene	293	J	ug/kg dry	227	452	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:18	KH
56-55-3	Benzo(a)anthracene	2270		ug/kg dry	227	452	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:18	KH
50-32-8	Benzo(a)pyrene	1970		ug/kg dry	227	452	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:18	KH
205-99-2	Benzo(b)fluoranthene	1930		ug/kg dry	227	452	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:18	KH
191-24-2	Benzo(g,h,i)perylene	1210		ug/kg dry	227	452	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:18	KH



Sample Information

Client Sample ID: S-17 DW

York Sample ID: 22L1187-02

York Project (SDG) No.

22L1187

Client Project ID

SHD2201 BOMARC

Matrix

Soil

Collection Date/Time

December 21, 2022 10:30 am

Date Received

12/21/2022

Semi-Volatiles, Suffolk Co. DHS App. A List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	Benzo(k)fluoranthene	1720		ug/kg dry	227	452	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:18	KH
218-01-9	Chrysene	2300		ug/kg dry	227	452	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:18	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	227	452	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:18	KH
206-44-0	Fluoranthene	2610		ug/kg dry	227	452	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:18	KH
86-73-7	Fluorene	ND		ug/kg dry	227	452	10	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:18	KH
193-39-5	Indeno(1,2,3-cd)pyrene	1630		ug/kg dry	227	452	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:18	KH
85-01-8	Phenanthrene	763		ug/kg dry	227	452	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:18	KH
129-00-0	Pyrene	3200		ug/kg dry	227	452	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:18	KH
Surrogate Recoveries		Result		Acceptance Range							
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	507 %	S-01		22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	405 %	S-01		21-113						
1718-51-0	Surrogate: SURR: Terphenyl-d14	466 %	S-01		24-116						

PCB, 8082 MASTER

Log-in Notes:

Sample Notes:

Sample 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-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 14:49	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 14:49	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 14:49	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 14:49	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 14:49	BJ
11097-69-1	Aroclor 1254	0.531		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 14:49	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0181	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 14:49	BJ
1336-36-3	* Total PCBs	0.531		mg/kg dry	0.0181	1	EPA 8082A Certifications:	12/24/2022 10:48	12/30/2022 14:49	BJ
Surrogate Recoveries		Result		Acceptance Range						



Sample Information

Client Sample ID: S-17 DW

York Sample ID: 22L1187-02

York Project (SDG) No.

22L1187

Client Project ID

SHD2201 BOMARC

Matrix

Soil

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December 21, 2022 10:30 am

Date Received

12/21/2022

PCB, 8082 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	Surrogate: Tetrachloro-m-xylene	68.0 %			30-120					
2051-24-3	Surrogate: Decachlorobiphenyl	67.5 %			30-120					

Metals, Suffolk Co. App. B

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
7440-38-2	Arsenic	2.60		mg/kg dry	1.36	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:14	CW
7440-39-3	Barium	6.91		mg/kg dry	2.27	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:14	CW
7440-41-7	Beryllium	0.089		mg/kg dry	0.045	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:14	CW
7440-43-9	Cadmium	ND		mg/kg dry	0.272	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:14	CW
7440-47-3	Chromium	9.52		mg/kg dry	0.453	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:14	CW
7440-50-8	Copper	22.6		mg/kg dry	1.81	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:14	CW
7439-92-1	Lead	12.2		mg/kg dry	0.453	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:14	CW
7440-02-0	Nickel	2.27		mg/kg dry	0.907	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:14	CW
7782-49-2	Selenium	ND		mg/kg dry	2.27	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:14	CW
7440-22-4	Silver	ND		mg/kg dry	0.453	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:14	CW

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	0.0326	1	EPA 7473 Certifications: CTDOH-PH-0723,NJDEP,NELAC-NY10854,PADEP	12/29/2022 14:46	12/29/2022 17:43	MR

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	91.9		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	12/28/2022 12:50	12/28/2022 15:10	LAR



Sample Information

Client Sample ID: S-17 DW

York Sample ID: 22L1187-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

22L1187

SHD2201 BOMARC

Soil

December 21, 2022 10:30 am

12/21/2022



Sample Information

Client Sample ID: S-18

York Sample ID: 22L1187-03

York Project (SDG) No.

22L1187

Client Project ID

SHD2201 BOMARC

Matrix

Soil

Collection Date/Time

December 21, 2022 11:10 am

Date Received

12/21/2022

Lead TCLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.897		mg/L	0.125	1	EPA 6010D/1311	12/27/2022 07:48	12/27/2022 14:08	CW
Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP										

TCLP Extraction for METALS EPA 1311

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	12/22/2022 16:59	12/23/2022 12:33	AGNR
Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP										



Sample Information

Client Sample ID: S-3

York Sample ID: 22L1187-04

York Project (SDG) No.
22L1187

Client Project ID
SHD2201 BOMARC

Matrix
Soil

Collection Date/Time
December 21, 2022 12:00 pm

Date Received
12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

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		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	12/29/2022 06:56	12/29/2022 15:52	BMC
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:52	BMC
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:52	BMC
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/29/2022 06:56	12/29/2022 15:52	BMC
95-93-2	* 1,2,4,5-Tetramethylbenzene	17000		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
120-82-1	1,2,4-Trichlorobenzene	8600		ug/kg dry	1400	2800	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:52	BMC
95-63-6	1,2,4-Trimethylbenzene	41000		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
95-50-1	1,2-Dichlorobenzene	1300000		ug/kg dry	28000	56000	2000	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 13:18	BMC
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
108-67-8	1,3,5-Trimethylbenzene	16000		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
541-73-1	1,3-Dichlorobenzene	19000		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:52	BMC



Sample Information

Client Sample ID: S-3

York Sample ID: 22L1187-04

York Project (SDG) No.

22L1187

Client Project ID

SHD2201 BOMARC

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Collection Date/Time

December 21, 2022 12:00 pm

Date Received

12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	410000		ug/kg dry	28000	56000	2000	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 13:18	BMC
123-91-1	1,4-Dioxane	ND		ug/kg dry	28000	56000	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:52	BMC
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/29/2022 06:56	12/29/2022 15:52	BMC
78-93-3	2-Butanone	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
110-75-8	2-Chloroethylvinyl ether	ND		ug/kg dry	5600	11000	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:52	BMC
95-49-8	2-Chlorotoluene	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
591-78-6	2-Hexanone	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
106-43-4	4-Chlorotoluene	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
67-64-1	Acetone	ND		ug/kg dry	2800	5600	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
107-02-8	Acrolein	ND		ug/kg dry	2800	5600	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
107-13-1	Acrylonitrile	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
71-43-2	Benzene	2100	J	ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
108-86-1	Bromobenzene	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:52	BMC
74-97-5	Bromochloromethane	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:52	BMC
75-27-4	Bromodichloromethane	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
75-25-2	Bromoform	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
74-83-9	Bromomethane	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
75-15-0	Carbon disulfide	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
108-90-7	Chlorobenzene	660000		ug/kg dry	28000	56000	2000	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 13:18	BMC
75-00-3	Chloroethane	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC



Sample Information

Client Sample ID: S-3

York Sample ID: 22L1187-04

York Project (SDG) No.
22L1187

Client Project ID
SHD2201 BOMARC

Matrix
Soil

Collection Date/Time
December 21, 2022 12:00 pm

Date Received
12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

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
67-66-3	Chloroform	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
74-87-3	Chloromethane	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
124-48-1	Dibromochloromethane	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:52	BMC
74-95-3	Dibromomethane	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:52	BMC
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:52	BMC
100-41-4	Ethyl Benzene	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
60-29-7	* Ethyl Ether	ND		ug/kg dry	14000	28000	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
637-92-3	* Ethyl tert-butyl ether (ETBE)	ND		ug/kg dry	2200	4400	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:52	BMC
74-88-4	* Iodomethane	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
98-82-8	Isopropylbenzene	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
80-62-6	Methyl Methacrylate	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:52	BMC
75-09-2	Methylene chloride	ND		ug/kg dry	2800	5600	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
91-20-3	Naphthalene	39000		ug/kg dry	1400	5600	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/29/2022 06:56	12/29/2022 15:52	BMC
104-51-8	n-Butylbenzene	9600		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
103-65-1	n-Propylbenzene	4000		ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/29/2022 06:56	12/29/2022 15:52	BMC
95-47-6	o-Xylene	2500	J	ug/kg dry	1400	2800	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	12/29/2022 06:56	12/29/2022 15:52	BMC
179601-23-1	p- & m- Xylenes	4500	J	ug/kg dry	2800	5600	100	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	12/29/2022 06:56	12/29/2022 15:52	BMC
105-05-5	* p-Diethylbenzene	23000		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC



Sample Information

Client Sample ID: S-3

York Sample ID: 22L1187-04

York Project (SDG) No.

22L1187

Client Project ID

SHD2201 BOMARC

Matrix

Soil

Collection Date/Time

December 21, 2022 12:00 pm

Date Received

12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

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
622-96-8	* p-Ethyltoluene	21000		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
99-87-6	p-Isopropyltoluene	5000		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
135-98-8	sec-Butylbenzene	3300		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
100-42-5	Styrene	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
994-05-8	* tert-Amyl methyl ether (TAME)	ND		ug/kg dry	2200	4400	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
98-06-6	tert-Butylbenzene	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
127-18-4	Tetrachloroethylene	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
109-99-9	* Tetrahydrofuran	ND		ug/kg dry	2800	5600	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
108-88-3	Toluene	2300	J	ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
79-01-6	Trichloroethylene	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
108-05-4	Vinyl acetate	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
75-01-4	Vinyl Chloride	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
1330-20-7	Xylenes, Total	7000	J	ug/kg dry	4200	8300	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
107-05-1	* Allyl chloride	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
123-86-4	* n-butyl acetate	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
75-45-6	* Chlorodifluoromethane (Freon 22)	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
493-01-6	* cis-decahydronaphthalene	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
493-02-7	* trans-decahydronaphthalene	8000		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
124-18-5	* n-Decane	30000		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC



Sample Information

Client Sample ID: S-3

York Sample ID: 22L1187-04

York Project (SDG) No.
22L1187

Client Project ID
SHD2201 BOMARC

Matrix
Soil

Collection Date/Time
December 21, 2022 12:00 pm

Date Received
12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

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
97-63-2	* Ethyl Methacrylate	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
67-72-1	* Hexachloroethane	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
110-54-3	* n-Hexane	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
5989-27-5	* Limonene	13000		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
98-95-3	* Nitrobenzene	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
79-46-9	* 2-Nitropropane	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
111-84-2	* n-Nonane	16000	QL-02	ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
111-65-9	* n-octane	ND		ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
1120-21-4	* n-undecane	8900	QL-02	ug/kg dry	1400	2800	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
556-61-6	* Methyl Isothiocyanate (TIC)	ND		ug/kg dry	28000	28000	100	EPA 8260C Certifications:	12/29/2022 06:56	12/29/2022 15:52	BMC
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	103 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	100 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	137 %	S-03, S-08		76-130						

Semi-Volatiles, Suffolk Co. DHS App. A List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	99.6	199	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:47	KH
120-12-7	Anthracene	808		ug/kg dry	99.6	199	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:47	KH
56-55-3	Benzo(a)anthracene	567		ug/kg dry	99.6	199	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:47	KH
50-32-8	Benzo(a)pyrene	243		ug/kg dry	99.6	199	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:47	KH
205-99-2	Benzo(b)fluoranthene	233		ug/kg dry	99.6	199	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:47	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	99.6	199	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:47	KH



Sample Information

Client Sample ID: S-3

York Sample ID: 22L1187-04

York Project (SDG) No.

22L1187

Client Project ID

SHD2201 BOMARC

Matrix

Soil

Collection Date/Time

December 21, 2022 12:00 pm

Date Received

12/21/2022

Semi-Volatiles, Suffolk Co. DHS App. A List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	Benzo(k)fluoranthene	138	J	ug/kg dry	99.6	199	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:47	KH
218-01-9	Chrysene	718		ug/kg dry	99.6	199	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:47	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	99.6	199	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:47	KH
206-44-0	Fluoranthene	ND		ug/kg dry	99.6	199	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:47	KH
86-73-7	Fluorene	1660		ug/kg dry	99.6	199	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:47	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	99.6	199	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:47	KH
85-01-8	Phenanthrene	4450		ug/kg dry	99.6	199	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:47	KH
129-00-0	Pyrene	2250		ug/kg dry	99.6	199	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 11:47	KH
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	14.2 %	S-08	22-108							
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	6.08 %	S-08	21-113							
1718-51-0	Surrogate: SURR: Terphenyl-d14	16.2 %	S-08	24-116							

PCB, 8082 MASTER

Log-in Notes:

Sample Notes:

Sample 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	0.0397	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 15:03	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0397	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 15:03	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0397	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 15:03	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0397	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 15:03	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0397	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 15:03	BJ
11097-69-1	Aroclor 1254	0.285		mg/kg dry	0.0397	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 15:03	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0397	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 15:03	BJ
1336-36-3	* Total PCBs	0.285		mg/kg dry	0.0397	1	EPA 8082A Certifications:	12/24/2022 10:48	12/30/2022 15:03	BJ
Surrogate Recoveries		Result	Acceptance Range							



Sample Information

Client Sample ID: S-3

York Sample ID: 22L1187-04

York Project (SDG) No.

22L1187

Client Project ID

SHD2201 BOMARC

Matrix

Soil

Collection Date/Time

December 21, 2022 12:00 pm

Date Received

12/21/2022

PCB, 8082 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	Surrogate: Tetrachloro-m-xylene	42.5 %			30-120					
2051-24-3	Surrogate: Decachlorobiphenyl	43.0 %			30-120					

Metals, Suffolk Co. App. B

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
7440-38-2	Arsenic	ND		mg/kg dry	2.99	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:17	CW
7440-39-3	Barium	158		mg/kg dry	4.98	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:17	CW
7440-41-7	Beryllium	ND		mg/kg dry	0.100	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:17	CW
7440-43-9	Cadmium	8.28		mg/kg dry	0.598	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:17	CW
7440-47-3	Chromium	158		mg/kg dry	0.996	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:17	CW
7440-50-8	Copper	761		mg/kg dry	3.98	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:17	CW
7439-92-1	Lead	145		mg/kg dry	0.996	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:17	CW
7440-02-0	Nickel	24.5		mg/kg dry	1.99	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:17	CW
7782-49-2	Selenium	ND		mg/kg dry	4.98	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:17	CW
7440-22-4	Silver	5.15		mg/kg dry	0.996	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:17	CW

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	1.92		mg/kg dry	0.0717	1	EPA 7473 Certifications: CTDOH-PH-0723,NJDEP,NELAC-NY10854,PADEP	12/30/2022 09:30	12/30/2022 11:02	MR

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	41.8		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	12/28/2022 12:50	12/28/2022 15:10	LAR



Sample Information

Client Sample ID: S-3

York Sample ID: 22L1187-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

22L1187

SHD2201 BOMARC

Soil

December 21, 2022 12:00 pm

12/21/2022



Sample Information

Client Sample ID: S-2

York Sample ID: 22L1187-05

York Project (SDG) No.

22L1187

Client Project ID

SHD2201 BOMARC

Matrix

Soil

Collection Date/Time

December 21, 2022 12:35 pm

Date Received

12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

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		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	12/23/2022 09:39	12/23/2022 16:15	BMC
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 16:15	BMC
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 16:15	BMC
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/23/2022 09:39	12/23/2022 16:15	BMC
95-93-2	* 1,2,4,5-Tetramethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 16:15	BMC
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
95-50-1	1,2-Dichlorobenzene	15		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 16:15	BMC



Sample Information

Client Sample ID: S-2

York Sample ID: 22L1187-05

York Project (SDG) No.

22L1187

Client Project ID

SHD2201 BOMARC

Matrix

Soil

Collection Date/Time

December 21, 2022 12:35 pm

Date Received

12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	6.3		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
123-91-1	1,4-Dioxane	ND		ug/kg dry	52	100	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 16:15	BMC
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	12/23/2022 09:39	12/23/2022 16:15	BMC
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
110-75-8	2-Chloroethylvinyl ether	ND		ug/kg dry	10	21	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 16:15	BMC
95-49-8	2-Chlorotoluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
591-78-6	2-Hexanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
106-43-4	4-Chlorotoluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
67-64-1	Acetone	6.8	J	ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
107-02-8	Acrolein	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
107-13-1	Acrylonitrile	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
71-43-2	Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
108-86-1	Bromobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 16:15	BMC
74-97-5	Bromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 16:15	BMC
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
75-25-2	Bromoform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
74-83-9	Bromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
75-15-0	Carbon disulfide	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
108-90-7	Chlorobenzene	10		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
75-00-3	Chloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC



Sample Information

Client Sample ID: S-2

York Sample ID: 22L1187-05

York Project (SDG) No.

22L1187

Client Project ID

SHD2201 BOMARC

Matrix

Soil

Collection Date/Time

December 21, 2022 12:35 pm

Date Received

12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

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
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
74-87-3	Chloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 16:15	BMC
74-95-3	Dibromomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 16:15	BMC
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 16:15	BMC
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
60-29-7	* Ethyl Ether	ND		ug/kg dry	26	52	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
637-92-3	* Ethyl tert-butyl ether (ETBE)	ND		ug/kg dry	4.2	8.3	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 16:15	BMC
74-88-4	* Iodomethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
80-62-6	Methyl Methacrylate	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 16:15	BMC
75-09-2	Methylene chloride	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
91-20-3	Naphthalene	ND		ug/kg dry	2.6	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/23/2022 09:39	12/23/2022 16:15	BMC
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/23/2022 09:39	12/23/2022 16:15	BMC
105-05-5	* p-Diethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC



Sample Information

Client Sample ID: S-2

York Sample ID: 22L1187-05

York Project (SDG) No.
22L1187

Client Project ID
SHD2201 BOMARC

Matrix
Soil

Collection Date/Time
December 21, 2022 12:35 pm

Date Received
12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

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
622-96-8	* p-Ethyltoluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
100-42-5	Styrene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
994-05-8	* tert-Amyl methyl ether (TAME)	ND		ug/kg dry	4.2	8.3	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
109-99-9	* Tetrahydrofuran	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
108-88-3	Toluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
108-05-4	Vinyl acetate	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.8	16	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
107-05-1	* Allyl chloride	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
123-86-4	* n-butyl acetate	ND	CCVE	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
75-45-6	* Chlorodifluoromethane (Freon 22)	ND	CCVE	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
493-01-6	* cis-decahydronaphthalene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
493-02-7	* trans-decahydronaphthalene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
124-18-5	* n-Decane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC



Sample Information

Client Sample ID: S-2

York Sample ID: 22L1187-05

York Project (SDG) No.

22L1187

Client Project ID

SHD2201 BOMARC

Matrix

Soil

Collection Date/Time

December 21, 2022 12:35 pm

Date Received

12/21/2022

Volatile Organics, Suffolk Co. App.A DHS List

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
97-63-2	* Ethyl Methacrylate	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
67-72-1	* Hexachloroethane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
110-54-3	* n-Hexane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
5989-27-5	* Limonene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
98-95-3	* Nitrobenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
79-46-9	* 2-Nitropropane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
111-84-2	* n-Nonane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
111-65-9	* n-octane	ND	CCVE	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
1120-21-4	* n-undecane	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC
556-61-6	* Methyl Isothiocyanate (TIC)	ND		ug/kg dry	52	52	1	EPA 8260C Certifications:	12/23/2022 09:39	12/23/2022 16:15	BMC

Surrogate Recoveries		Result	Acceptance Range
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	112 %	77-125
2037-26-5	Surrogate: SURR: Toluene-d8	100 %	85-120
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	121 %	76-130

Semi-Volatiles, Suffolk Co. DHS App. A List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications:	12/24/2022 11:32	12/27/2022 15:15	KH
120-12-7	Anthracene	83.3	J	ug/kg dry	46.2	92.2	2	EPA 8270D Certifications:	12/24/2022 11:32	12/27/2022 15:15	KH
56-55-3	Benzo(a)anthracene	453		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications:	12/24/2022 11:32	12/27/2022 15:15	KH
50-32-8	Benzo(a)pyrene	314		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications:	12/24/2022 11:32	12/27/2022 15:15	KH
205-99-2	Benzo(b)fluoranthene	332		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications:	12/24/2022 11:32	12/27/2022 15:15	KH
191-24-2	Benzo(g,h,i)perylene	280		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications:	12/24/2022 11:32	12/27/2022 15:15	KH



Sample Information

Client Sample ID: S-2

York Sample ID: 22L1187-05

York Project (SDG) No.

22L1187

Client Project ID

SHD2201 BOMARC

Matrix

Soil

Collection Date/Time

December 21, 2022 12:35 pm

Date Received

12/21/2022

Semi-Volatiles, Suffolk Co. DHS App. A List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	Benzo(k)fluoranthene	268		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 15:15	KH
218-01-9	Chrysene	522		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 15:15	KH
53-70-3	Dibenzo(a,h)anthracene	48.6	J	ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 15:15	KH
206-44-0	Fluoranthene	972		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 15:15	KH
86-73-7	Fluorene	ND		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 15:15	KH
193-39-5	Indeno(1,2,3-cd)pyrene	359		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 15:15	KH
85-01-8	Phenanthrene	443		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 15:15	KH
129-00-0	Pyrene	1100		ug/kg dry	46.2	92.2	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/24/2022 11:32	12/27/2022 15:15	KH
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	74.6 %	22-108								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	61.3 %	21-113								
1718-51-0	Surrogate: SURR: Terphenyl-d14	77.9 %	24-116								

PCB, 8082 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 15:16	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 15:16	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 15:16	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 15:16	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 15:16	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 15:16	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP	12/24/2022 10:48	12/30/2022 15:16	BJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0182	1	EPA 8082A Certifications:	12/24/2022 10:48	12/30/2022 15:16	BJ
Surrogate Recoveries		Result	Acceptance Range							



Sample Information

Client Sample ID: S-2

York Sample ID: 22L1187-05

York Project (SDG) No.

22L1187

Client Project ID

SHD2201 BOMARC

Matrix

Soil

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December 21, 2022 12:35 pm

Date Received

12/21/2022

PCB, 8082 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	Surrogate: Tetrachloro-m-xylene	66.5 %			30-120					
2051-24-3	Surrogate: Decachlorobiphenyl	62.5 %			30-120					

Metals, Suffolk Co. App. B

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
7440-38-2	Arsenic	ND		mg/kg dry	1.39	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:20	CW
7440-39-3	Barium	10.8		mg/kg dry	2.31	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:20	CW
7440-41-7	Beryllium	0.100		mg/kg dry	0.046	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:20	CW
7440-43-9	Cadmium	ND		mg/kg dry	0.277	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:20	CW
7440-47-3	Chromium	4.54		mg/kg dry	0.462	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:20	CW
7440-50-8	Copper	10.5		mg/kg dry	1.85	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:20	CW
7439-92-1	Lead	18.5		mg/kg dry	0.462	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:20	CW
7440-02-0	Nickel	3.35		mg/kg dry	0.924	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:20	CW
7782-49-2	Selenium	ND		mg/kg dry	2.31	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:20	CW
7440-22-4	Silver	ND		mg/kg dry	0.462	1	EPA 6010D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	12/29/2022 13:51	12/30/2022 11:20	CW

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	0.0333	1	EPA 7473 Certifications: CTDOH-PH-0723,NJDEP,NELAC-NY10854,PADEP	12/30/2022 09:30	12/30/2022 12:18	MR

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	90.2		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	12/28/2022 12:50	12/28/2022 15:10	LAR



Sample Information

Client Sample ID: S-2

York Sample ID: 22L1187-05

York Project (SDG) No.

Client Project ID

Matrix

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22L1187

SHD2201 BOMARC

Soil

December 21, 2022 12:35 pm

12/21/2022



Analytical Batch Summary

Batch ID: BL21326 **Preparation Method:** EPA 5035A **Prepared By:** BMC

YORK Sample ID	Client Sample ID	Preparation Date
22L1187-01	S-16	12/23/22
22L1187-02	S-17 DW	12/23/22
22L1187-05	S-2	12/23/22
BL21326-BLK1	Blank	12/23/22
BL21326-BS1	LCS	12/23/22
BL21326-BS2	LCS	12/23/22
BL21326-BSD1	LCS Dup	12/23/22
BL21326-BSD2	LCS Dup	12/23/22

Batch ID: BL21333 **Preparation Method:** EPA 5035A **Prepared By:** BMC

YORK Sample ID	Client Sample ID	Preparation Date
22L1187-04	S-3	12/29/22
22L1187-04RE1	S-3	12/29/22
BL21333-BLK1	Blank	12/29/22
BL21333-BS1	LCS	12/29/22
BL21333-BS2	LCS	12/29/22
BL21333-BSD1	LCS Dup	12/29/22
BL21333-BSD2	LCS Dup	12/29/22

Batch ID: BL21370 **Preparation Method:** EPA SW 846-1311 TCLP ext. for metals **Prepared By:** TAJ

YORK Sample ID	Client Sample ID	Preparation Date
22L1187-03	S-18	12/22/22
BL21370-BLK1	Blank	12/22/22

Batch ID: BL21456 **Preparation Method:** EPA 3550C **Prepared By:** FK

YORK Sample ID	Client Sample ID	Preparation Date
22L1187-01	S-16	12/24/22
22L1187-02	S-17 DW	12/24/22
22L1187-04	S-3	12/24/22
22L1187-05	S-2	12/24/22
BL21456-BLK2	Blank	12/23/22
BL21456-BS2	LCS	12/23/22
BL21456-MS2	Matrix Spike	12/23/22
BL21456-MSD2	Matrix Spike Dup	12/23/22

Batch ID: BL21479 **Preparation Method:** EPA 3550C **Prepared By:** RST

YORK Sample ID	Client Sample ID	Preparation Date
22L1187-01	S-16	12/24/22
22L1187-02	S-17 DW	12/24/22



22L1187-04	S-3	12/24/22
22L1187-05	S-2	12/24/22
BL21479-MS1	Matrix Spike	12/24/22
BL21479-MSD1	Matrix Spike Dup	12/24/22

Batch ID: BL21499 **Preparation Method:** EPA 3015A/1311 **Prepared By:** MCS

YORK Sample ID	Client Sample ID	Preparation Date
22L1187-03	S-18	12/27/22
BL21499-BLK1	Blank	12/27/22
BL21499-BS1	LCS	12/27/22
BL21499-DUP1	Duplicate	12/27/22
BL21499-LBK1	Leach Fluid Blank	12/27/22
BL21499-MS1	Matrix Spike	12/27/22
BL21499-PS1	Post Spike	12/27/22

Batch ID: BL21621 **Preparation Method:** % Solids Prep **Prepared By:** LAR

YORK Sample ID	Client Sample ID	Preparation Date
22L1187-01	S-16	12/28/22
22L1187-02	S-17 DW	12/28/22
22L1187-04	S-3	12/28/22
22L1187-05	S-2	12/28/22
BL21621-DUP1	Duplicate	12/28/22

Batch ID: BL21707 **Preparation Method:** EPA 3050B **Prepared By:** KMQ

YORK Sample ID	Client Sample ID	Preparation Date
22L1187-01	S-16	12/29/22
22L1187-02	S-17 DW	12/29/22
22L1187-04	S-3	12/29/22
22L1187-05	S-2	12/29/22
BL21707-BLK1	Blank	12/29/22
BL21707-DUP1	Duplicate	12/29/22
BL21707-MS1	Matrix Spike	12/29/22
BL21707-PS1	Post Spike	12/29/22
BL21707-SRM1	Reference	12/29/22

Batch ID: BL21717 **Preparation Method:** EPA 7473 soil **Prepared By:** MR

YORK Sample ID	Client Sample ID	Preparation Date
22L1187-01	S-16	12/29/22
22L1187-02	S-17 DW	12/29/22
BL21717-BLK1	Blank	12/29/22
BL21717-DUP1	Duplicate	12/29/22
BL21717-MS1	Matrix Spike	12/29/22
BL21717-SRM1	Reference	12/29/22



Batch ID: BL21753 **Preparation Method:** EPA 7473 soil **Prepared By:** MR

YORK Sample ID	Client Sample ID	Preparation Date
22L1187-04	S-3	12/30/22
22L1187-05	S-2	12/30/22
BL21753-BLK1	Blank	12/30/22
BL21753-DUP1	Duplicate	12/30/22
BL21753-MS1	Matrix Spike	12/30/22
BL21753-SRM1	Reference	12/30/22



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21326 - EPA 5035A

Blank (BL21326-BLK1)

Prepared & Analyzed: 12/23/2022

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet
1,1,1-Trichloroethane	ND	5.0	"
1,1,2,2-Tetrachloroethane	ND	5.0	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,1-Dichloroethylene	ND	5.0	"
1,1-Dichloropropylene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	5.0	"
1,2,3-Trichloropropane	ND	5.0	"
1,2,4,5-Tetramethylbenzene	ND	5.0	"
1,2,4-Trichlorobenzene	ND	5.0	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	5.0	"
1,2-Dibromoethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
1,4-Dioxane	ND	100	"
2,2-Dichloropropane	ND	5.0	"
2-Butanone	ND	5.0	"
2-Chloroethylvinyl ether	ND	20	"
2-Chlorotoluene	ND	5.0	"
2-Hexanone	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
4-Methyl-2-pentanone	ND	5.0	"
Acetone	ND	10	"
Acrolein	ND	10	"
Acrylonitrile	ND	5.0	"
Benzene	ND	5.0	"
Bromobenzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
Carbon disulfide	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	5.0	"
cis-1,2-Dichloroethylene	ND	5.0	"
cis-1,3-Dichloropropylene	ND	5.0	"
Dibromochloromethane	ND	5.0	"
Dibromomethane	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21326 - EPA 5035A

Blank (BL21326-BLK1)

Prepared & Analyzed: 12/23/2022

Ethyl Benzene	ND	5.0	ug/kg wet								
Ethyl Ether	ND	50	"								
Ethyl tert-butyl ether (ETBE)	ND	8.0	"								
Hexachlorobutadiene	ND	5.0	"								
Iodomethane	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl Methacrylate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Diethylbenzene	ND	5.0	"								
p-Ethyltoluene	ND	5.0	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Amyl methyl ether (TAME)	ND	8.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Tetrahydrofuran	ND	10	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl acetate	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Allyl chloride	ND	5.0	"								
n-butyl acetate	ND	5.0	"								
Chlorodifluoromethane (Freon 22)	ND	5.0	"								
cis-decahydronaphthalene	ND	5.0	"								
trans-decahydronaphthalene	ND	5.0	"								
n-Decane	ND	5.0	"								
Ethyl Methacrylate	ND	5.0	"								
Hexachloroethane	ND	5.0	"								
n-Hexane	ND	5.0	"								
Limonene	ND	5.0	"								
Nitrobenzene	ND	5.0	"								
2-Nitropropane	ND	5.0	"								
n-Nonane	ND	5.0	"								
n-octane	ND	5.0	"								
n-undecane	ND	5.0	"								
Methyl Isothiocyanate (TIC)	ND	50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	51.4		ug/L	50.0		103	77-125				
Surrogate: SURR: Toluene-d8	51.1		"	50.0		102	85-120				
Surrogate: SURR: p-Bromofluorobenzene	57.9		"	50.0		116	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL21326 - EPA 5035A											
LCS (BL21326-BS1)						Prepared & Analyzed: 12/23/2022					
1,1,1,2-Tetrachloroethane	47		ug/L	50.0		93.2	75-129				
1,1,1-Trichloroethane	46		"	50.0		93.0	71-137				
1,1,2,2-Tetrachloroethane	46		"	50.0		92.3	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	40		"	50.0		80.8	58-146				
1,1,2-Trichloroethane	44		"	50.0		87.7	83-123				
1,1-Dichloroethane	42		"	50.0		84.6	75-130				
1,1-Dichloroethylene	41		"	50.0		81.1	64-137				
1,1-Dichloropropylene	44		"	50.0		87.3	77-127				
1,2,3-Trichlorobenzene	40		"	50.0		80.0	81-140	Low Bias			
1,2,3-Trichloropropane	44		"	50.0		87.4	81-126				
1,2,4,5-Tetramethylbenzene	47		"	50.0		93.6	63-156				
1,2,4-Trichlorobenzene	42		"	50.0		83.1	80-141				
1,2,4-Trimethylbenzene	44		"	50.0		88.8	84-125				
1,2-Dibromo-3-chloropropane	49		"	50.0		98.4	74-142				
1,2-Dibromoethane	45		"	50.0		89.9	86-123				
1,2-Dichlorobenzene	45		"	50.0		90.8	85-122				
1,2-Dichloroethane	46		"	50.0		92.1	71-133				
1,2-Dichloropropane	46		"	50.0		92.0	81-122				
1,3,5-Trimethylbenzene	46		"	50.0		91.2	82-126				
1,3-Dichlorobenzene	43		"	50.0		86.4	84-124				
1,3-Dichloropropane	45		"	50.0		91.0	83-123				
1,4-Dichlorobenzene	42		"	50.0		85.0	84-124				
1,4-Dioxane	1100		"	1050		106	10-228				
2,2-Dichloropropane	43		"	50.0		86.2	67-136				
2-Butanone	40		"	50.0		80.6	58-147				
2-Chloroethylvinyl ether	86		"	50.0		171	10-166	High Bias			
2-Chlorotoluene	45		"	50.0		89.4	78-127				
2-Hexanone	47		"	50.0		93.8	70-139				
4-Chlorotoluene	47		"	50.0		94.3	79-125				
4-Methyl-2-pentanone	36		"	50.0		72.9	72-132				
Acetone	34		"	50.0		67.3	36-155				
Acrolein	40		"	50.0		79.9	10-238				
Acrylonitrile	46		"	50.0		92.1	66-141				
Benzene	46		"	50.0		91.5	77-127				
Bromobenzene	43		"	50.0		86.6	77-129				
Bromochloromethane	47		"	50.0		94.1	74-129				
Bromodichloromethane	47		"	50.0		93.6	81-124				
Bromoform	43		"	50.0		86.3	80-136				
Bromomethane	74		"	50.0		149	32-177				
Carbon disulfide	42		"	50.0		85.0	10-136				
Carbon tetrachloride	47		"	50.0		94.2	66-143				
Chlorobenzene	47		"	50.0		95.0	86-120				
Chloroethane	74		"	50.0		149	51-142	High Bias			
Chloroform	46		"	50.0		91.1	76-131				
Chloromethane	55		"	50.0		110	49-132				
cis-1,2-Dichloroethylene	43		"	50.0		86.7	74-132				
cis-1,3-Dichloropropylene	45		"	50.0		91.0	81-129				
Dibromochloromethane	42		"	50.0		84.6	10-200				
Dibromomethane	46		"	50.0		92.5	83-124				
Dichlorodifluoromethane	37		"	50.0		73.8	28-158				
Ethyl Benzene	46		"	50.0		92.0	84-125				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL21326 - EPA 5035A											
LCS (BL21326-BS1)						Prepared & Analyzed: 12/23/2022					
Ethyl Ether	ND	50	ug/kg wet				70-130				
Ethyl tert-butyl ether (ETBE)	38		ug/L	50.0		75.4	70-130				
Hexachlorobutadiene	41		"	50.0		82.4	83-133	Low Bias			
Iodomethane	42		"	50.0		83.9	70-130				
Isopropylbenzene	46		"	50.0		92.0	81-127				
Methyl Methacrylate	45		"	50.0		89.4	79-125				
Methyl tert-butyl ether (MTBE)	40		"	50.0		80.0	74-131				
Methylene chloride	44		"	50.0		87.1	57-141				
Naphthalene	43		"	50.0		86.6	86-141				
n-Butylbenzene	48		"	50.0		95.3	80-130				
n-Propylbenzene	47		"	50.0		93.6	74-136				
o-Xylene	46		"	50.0		91.6	83-123				
p- & m- Xylenes	97		"	100		96.8	82-128				
p-Diethylbenzene	49		"	50.0		97.8	70-144				
p-Ethyltoluene	50		"	50.0		100	84-123				
p-Isopropyltoluene	46		"	50.0		92.2	85-125				
sec-Butylbenzene	46		"	50.0		92.4	83-125				
Styrene	46		"	50.0		92.5	86-126				
tert-Amyl methyl ether (TAME)	40		"	50.0		80.4	70-130				
tert-Butylbenzene	38		"	50.0		76.8	80-127	Low Bias			
Tetrachloroethylene	39		"	50.0		78.7	80-129	Low Bias			
Tetrahydrofuran	51		"	50.0		101	64-137				
Toluene	46		"	50.0		92.4	85-121				
trans-1,2-Dichloroethylene	43		"	50.0		85.8	72-132				
trans-1,3-Dichloropropylene	46		"	50.0		92.1	78-132				
Trichloroethylene	44		"	50.0		88.6	84-123				
Trichlorofluoromethane	66		"	50.0		132	62-140				
Vinyl acetate	43		"	50.0		86.6	67-136				
Vinyl Chloride	65		"	50.0		129	52-130				
Allyl chloride	45		"	50.0		89.4	70-130				
n-butyl acetate	ND	5.0	ug/kg wet				70-130				
Chlorodifluoromethane (Freon 22)	ND	5.0	"				70-130				
cis-decahydronaphthalene	ND	5.0	"				70-130				
trans-decahydronaphthalene	ND	5.0	"				70-130				
n-Decane	ND	5.0	"				70-130				
Ethyl Methacrylate	44		ug/L	50.0		87.8	70-130				
Hexachloroethane	ND	5.0	ug/kg wet				70-130				
n-Hexane	ND	5.0	"				70-130				
Limonene	ND	5.0	"				70-130				
Nitrobenzene	63		ug/L	50.0		126	70-130				
2-Nitropropane	52	5.0	ug/kg wet				70-130				
n-Nonane	ND	5.0	"				70-130				
n-octane	ND	5.0	"				70-130				
n-undecane	ND	5.0	"				70-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	49.5		ug/L	50.0		98.9	77-125				
Surrogate: SURR: Toluene-d8	51.1		"	50.0		102	85-120				
Surrogate: SURR: p-Bromofluorobenzene	48.2		"	50.0		96.4	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21326 - EPA 5035A

LCS (BL21326-BS2)

Prepared & Analyzed: 12/23/2022

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet				75-129			
1,1,1-Trichloroethane	ND	5.0	"				71-137			
1,1,2,2-Tetrachloroethane	ND	5.0	"				79-129			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"				58-146			
1,1,2-Trichloroethane	ND	5.0	"				83-123			
1,1-Dichloroethane	ND	5.0	"				75-130			
1,1-Dichloroethylene	ND	5.0	"				64-137			
1,1-Dichloropropylene	ND	5.0	"				77-127			
1,2,3-Trichlorobenzene	ND	5.0	"				81-140			
1,2,3-Trichloropropane	ND	5.0	"				81-126			
1,2,4,5-Tetramethylbenzene	ND	5.0	"				63-156			
1,2,4-Trichlorobenzene	ND	5.0	"				80-141			
1,2,4-Trimethylbenzene	ND	5.0	"				84-125			
1,2-Dibromo-3-chloropropane	ND	5.0	"				74-142			
1,2-Dibromoethane	ND	5.0	"				86-123			
1,2-Dichlorobenzene	ND	5.0	"				85-122			
1,2-Dichloroethane	ND	5.0	"				71-133			
1,2-Dichloropropane	ND	5.0	"				81-122			
1,3,5-Trimethylbenzene	ND	5.0	"				82-126			
1,3-Dichlorobenzene	ND	5.0	"				84-124			
1,3-Dichloropropane	ND	5.0	"				83-123			
1,4-Dichlorobenzene	ND	5.0	"				84-124			
1,4-Dioxane	ND	100	"				10-228			
2,2-Dichloropropane	ND	5.0	"				67-136			
2-Butanone	ND	5.0	"				58-147			
2-Chloroethylvinyl ether	ND	20	"				10-166			
2-Chlorotoluene	ND	5.0	"				78-127			
2-Hexanone	ND	5.0	"				70-139			
4-Chlorotoluene	ND	5.0	"				79-125			
4-Methyl-2-pentanone	ND	5.0	"				72-132			
Acetone	ND	10	"				36-155			
Acrolein	ND	10	"				10-238			
Acrylonitrile	ND	5.0	"				66-141			
Benzene	ND	5.0	"				77-127			
Bromobenzene	ND	5.0	"				77-129			
Bromochloromethane	ND	5.0	"				74-129			
Bromodichloromethane	ND	5.0	"				81-124			
Bromoform	ND	5.0	"				80-136			
Bromomethane	ND	5.0	"				32-177			
Carbon disulfide	ND	5.0	"				10-136			
Carbon tetrachloride	ND	5.0	"				66-143			
Chlorobenzene	ND	5.0	"				86-120			
Chloroethane	ND	5.0	"				51-142			
Chloroform	ND	5.0	"				76-131			
Chloromethane	ND	5.0	"				49-132			
cis-1,2-Dichloroethylene	ND	5.0	"				74-132			
cis-1,3-Dichloropropylene	ND	5.0	"				81-129			
Dibromochloromethane	ND	5.0	"				10-200			
Dibromomethane	ND	5.0	"				83-124			
Dichlorodifluoromethane	ND	5.0	"				28-158			
Ethyl Benzene	ND	5.0	"				84-125			





Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21326 - EPA 5035A

LCS (BL21326-BS2)

Prepared & Analyzed: 12/23/2022

Ethyl Ether	920	50	ug/kg wet				70-130				
Ethyl tert-butyl ether (ETBE)	ND	8.0	"				70-130				
Hexachlorobutadiene	ND	5.0	"				83-133				
Iodomethane	ND	5.0	"				70-130				
Isopropylbenzene	ND	5.0	"				81-127				
Methyl Methacrylate	ND	5.0	"				79-125				
Methyl tert-butyl ether (MTBE)	ND	5.0	"				74-131				
Methylene chloride	ND	10	"				57-141				
Naphthalene	ND	10	"				86-141				
n-Butylbenzene	ND	5.0	"				80-130				
n-Propylbenzene	ND	5.0	"				74-136				
o-Xylene	ND	5.0	"				83-123				
p- & m- Xylenes	ND	10	"				82-128				
p-Diethylbenzene	ND	5.0	"				70-144				
p-Ethyltoluene	ND	5.0	"				84-123				
p-Isopropyltoluene	ND	5.0	"				85-125				
sec-Butylbenzene	ND	5.0	"				83-125				
Styrene	ND	5.0	"				86-126				
tert-Amyl methyl ether (TAME)	ND	8.0	"				70-130				
tert-Butylbenzene	ND	5.0	"				80-127				
Tetrachloroethylene	ND	5.0	"				80-129				
Tetrahydrofuran	ND	10	"				64-137				
Toluene	ND	5.0	"				85-121				
trans-1,2-Dichloroethylene	ND	5.0	"				72-132				
trans-1,3-Dichloropropylene	ND	5.0	"				78-132				
Trichloroethylene	ND	5.0	"				84-123				
Trichlorofluoromethane	ND	5.0	"				62-140				
Vinyl acetate	ND	5.0	"				67-136				
Vinyl Chloride	ND	5.0	"				52-130				
Allyl chloride	ND	5.0	"				70-130				
n-butyl acetate	43		ug/L	50.0		86.0	70-130				
Chlorodifluoromethane (Freon 22)	840		"	50.0		NR	70-130	High Bias			
cis-decahydronaphthalene	52		"	50.0		105	70-130				
trans-decahydronaphthalene	57		"	50.0		113	70-130				
n-Decane	73	5.0	ug/kg wet				70-130				
Ethyl Methacrylate	ND	5.0	"				70-130				
Hexachloroethane	ND	5.0	"				70-130				
n-Hexane	45		ug/L	50.0		90.5	70-130				
Limonene	60		"	50.0		120	70-130				
Nitrobenzene	ND	5.0	ug/kg wet				70-130				
2-Nitropropane	ND	5.0	"				70-130				
n-Nonane	59		ug/L	50.0		118	70-130				
n-octane	50		"	50.0		101	70-130				
n-undecane	74		"	50.0		147	70-130	High Bias			
Surrogate: SURR: 1,2-Dichloroethane-d4	46.2		"	50.0		92.5	77-125				
Surrogate: SURR: Toluene-d8	51.1		"	50.0		102	85-120				
Surrogate: SURR: p-Bromofluorobenzene	58.7		"	50.0		117	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL21326 - EPA 5035A											
LCS Dup (BL21326-BSD1)						Prepared & Analyzed: 12/23/2022					
1,1,1,2-Tetrachloroethane	52		ug/L	50.0		105	75-129		11.7	30	
1,1,1-Trichloroethane	50		"	50.0		99.7	71-137		6.98	30	
1,1,2,2-Tetrachloroethane	52		"	50.0		105	79-129		12.8	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	43		"	50.0		85.2	58-146		5.37	30	
1,1,2-Trichloroethane	50		"	50.0		100	83-123		13.2	30	
1,1-Dichloroethane	45		"	50.0		90.7	75-130		6.96	30	
1,1-Dichloroethylene	45		"	50.0		89.4	64-137		9.76	30	
1,1-Dichloropropylene	47		"	50.0		93.3	77-127		6.69	30	
1,2,3-Trichlorobenzene	45		"	50.0		90.7	81-140		12.6	30	
1,2,3-Trichloropropane	50		"	50.0		99.3	81-126		12.8	30	
1,2,4,5-Tetramethylbenzene	52		"	50.0		104	63-156		10.2	30	
1,2,4-Trichlorobenzene	46		"	50.0		91.6	80-141		9.82	30	
1,2,4-Trimethylbenzene	48		"	50.0		97.0	84-125		8.76	30	
1,2-Dibromo-3-chloropropane	55		"	50.0		110	74-142		10.8	30	
1,2-Dibromoethane	51		"	50.0		102	86-123		12.6	30	
1,2-Dichlorobenzene	51		"	50.0		101	85-122		11.0	30	
1,2-Dichloroethane	53		"	50.0		106	71-133		13.7	30	
1,2-Dichloropropane	51		"	50.0		101	81-122		9.41	30	
1,3,5-Trimethylbenzene	50		"	50.0		99.9	82-126		9.07	30	
1,3-Dichlorobenzene	47		"	50.0		94.2	84-124		8.63	30	
1,3-Dichloropropane	50		"	50.0		101	83-123		10.4	30	
1,4-Dichlorobenzene	48		"	50.0		95.5	84-124		11.7	30	
1,4-Dioxane	1200		"	1050		119	10-228		11.7	30	
2,2-Dichloropropane	48		"	50.0		95.7	67-136		10.5	30	
2-Butanone	44		"	50.0		88.7	58-147		9.52	30	
2-Chloroethylvinyl ether	97		"	50.0		195	10-166	High Bias	12.9	30	
2-Chlorotoluene	48		"	50.0		96.4	78-127		7.56	30	
2-Hexanone	53		"	50.0		106	70-139		12.7	30	
4-Chlorotoluene	51		"	50.0		103	79-125		8.33	30	
4-Methyl-2-pentanone	41		"	50.0		82.5	72-132		12.3	30	
Acetone	35		"	50.0		70.4	36-155		4.56	30	
Acrolein	43		"	50.0		85.9	10-238		7.17	30	
Acrylonitrile	51		"	50.0		101	66-141		9.39	30	
Benzene	49		"	50.0		98.5	77-127		7.41	30	
Bromobenzene	48		"	50.0		95.2	77-129		9.48	30	
Bromochloromethane	52		"	50.0		103	74-129		9.26	30	
Bromodichloromethane	52		"	50.0		103	81-124		9.78	30	
Bromoform	50		"	50.0		99.9	80-136		14.7	30	
Bromomethane	78		"	50.0		157	32-177		5.32	30	
Carbon disulfide	46		"	50.0		91.9	10-136		7.85	30	
Carbon tetrachloride	51		"	50.0		103	66-143		8.85	30	
Chlorobenzene	52		"	50.0		105	86-120		9.79	30	
Chloroethane	76		"	50.0		153	51-142	High Bias	2.39	30	
Chloroform	50		"	50.0		100	76-131		9.32	30	
Chloromethane	56		"	50.0		111	49-132		1.45	30	
cis-1,2-Dichloroethylene	49		"	50.0		97.3	74-132		11.5	30	
cis-1,3-Dichloropropylene	51		"	50.0		101	81-129		10.5	30	
Dibromochloromethane	48		"	50.0		95.7	10-200		12.3	30	
Dibromomethane	51		"	50.0		102	83-124		9.50	30	
Dichlorodifluoromethane	38		"	50.0		76.0	28-158		2.94	30	
Ethyl Benzene	50		"	50.0		101	84-125		8.95	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL21326 - EPA 5035A											
LCS Dup (BL21326-BSD1)						Prepared & Analyzed: 12/23/2022					
Ethyl Ether	ND	50	ug/kg wet				70-130			30	
Ethyl tert-butyl ether (ETBE)	44		ug/L	50.0		87.0	70-130		14.3	30	
Hexachlorobutadiene	45		"	50.0		90.0	83-133		8.77	30	
Iodomethane	46		"	50.0		91.9	70-130		9.10	30	
Isopropylbenzene	50		"	50.0		99.8	81-127		8.13	30	
Methyl Methacrylate	51		"	50.0		102	79-125		13.3	30	
Methyl tert-butyl ether (MTBE)	46		"	50.0		92.5	74-131		14.5	30	
Methylene chloride	48		"	50.0		96.3	57-141		10.0	30	
Naphthalene	49		"	50.0		98.6	86-141		13.0	30	
n-Butylbenzene	52		"	50.0		105	80-130		9.27	30	
n-Propylbenzene	50		"	50.0		99.8	74-136		6.37	30	
o-Xylene	51		"	50.0		102	83-123		10.3	30	
p- & m- Xylenes	110		"	100		106	82-128		9.30	30	
p-Diethylbenzene	54		"	50.0		108	70-144		10.1	30	
p-Ethyltoluene	54		"	50.0		108	84-123		7.36	30	
p-Isopropyltoluene	50		"	50.0		99.9	85-125		8.01	30	
sec-Butylbenzene	50		"	50.0		100	83-125		8.04	30	
Styrene	52		"	50.0		104	86-126		11.6	30	
tert-Amyl methyl ether (TAME)	46		"	50.0		92.0	70-130		13.5	30	
tert-Butylbenzene	42		"	50.0		83.9	80-127		8.79	30	
Tetrachloroethylene	42		"	50.0		84.3	80-129		6.80	30	
Tetrahydrofuran	54		"	50.0		108	64-137		6.60	30	
Toluene	50		"	50.0		99.7	85-121		7.64	30	
trans-1,2-Dichloroethylene	47		"	50.0		93.4	72-132		8.46	30	
trans-1,3-Dichloropropylene	51		"	50.0		102	78-132		10.3	30	
Trichloroethylene	48		"	50.0		95.6	84-123		7.60	30	
Trichlorofluoromethane	68		"	50.0		135	62-140		2.29	30	
Vinyl acetate	48		"	50.0		95.2	67-136		9.49	30	
Vinyl Chloride	67		"	50.0		134	52-130	High Bias	4.08	30	
Allyl chloride	45		"	50.0		90.3	70-130		1.02	30	
n-butyl acetate	ND	5.0	ug/kg wet				70-130			30	
Chlorodifluoromethane (Freon 22)	ND	5.0	"				70-130			30	
cis-decahydronaphthalene	ND	5.0	"				70-130			30	
trans-decahydronaphthalene	ND	5.0	"				70-130			30	
n-Decane	ND	5.0	"				70-130			30	
Ethyl Methacrylate	51		ug/L	50.0		102	70-130		15.0	30	
Hexachloroethane	ND	5.0	ug/kg wet				70-130			30	
n-Hexane	ND	5.0	"				70-130			30	
Limonene	ND	5.0	"				70-130			30	
Nitrobenzene	73		ug/L	50.0		146	70-130	High Bias	14.4	30	
2-Nitropropane	57	5.0	ug/kg wet				70-130		9.92	30	
n-Nonane	ND	5.0	"				70-130			30	
n-octane	ND	5.0	"				70-130			30	
n-undecane	ND	5.0	"				70-130			30	
Surrogate: SURR: 1,2-Dichloroethane-d4	51.0		ug/L	50.0		102	77-125				
Surrogate: SURR: Toluene-d8	51.0		"	50.0		102	85-120				
Surrogate: SURR: p-Bromofluorobenzene	47.7		"	50.0		95.3	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL21326 - EPA 5035A											
LCS Dup (BL21326-BSD2)						Prepared & Analyzed: 12/23/2022					
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet				75-129			30	
1,1,1-Trichloroethane	ND	5.0	"				71-137			30	
1,1,2,2-Tetrachloroethane	ND	5.0	"				79-129			30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"				58-146			30	
1,1,2-Trichloroethane	ND	5.0	"				83-123			30	
1,1-Dichloroethane	ND	5.0	"				75-130			30	
1,1-Dichloroethylene	ND	5.0	"				64-137			30	
1,1-Dichloropropylene	ND	5.0	"				77-127			30	
1,2,3-Trichlorobenzene	ND	5.0	"				81-140			30	
1,2,3-Trichloropropane	ND	5.0	"				81-126			30	
1,2,4,5-Tetramethylbenzene	ND	5.0	"				63-156			30	
1,2,4-Trichlorobenzene	ND	5.0	"				80-141			30	
1,2,4-Trimethylbenzene	ND	5.0	"				84-125			30	
1,2-Dibromo-3-chloropropane	ND	5.0	"				74-142			30	
1,2-Dibromoethane	ND	5.0	"				86-123			30	
1,2-Dichlorobenzene	ND	5.0	"				85-122			30	
1,2-Dichloroethane	ND	5.0	"				71-133			30	
1,2-Dichloropropane	ND	5.0	"				81-122			30	
1,3,5-Trimethylbenzene	ND	5.0	"				82-126			30	
1,3-Dichlorobenzene	ND	5.0	"				84-124			30	
1,3-Dichloropropane	ND	5.0	"				83-123			30	
1,4-Dichlorobenzene	ND	5.0	"				84-124			30	
1,4-Dioxane	ND	100	"				10-228			30	
2,2-Dichloropropane	ND	5.0	"				67-136			30	
2-Butanone	ND	5.0	"				58-147			30	
2-Chloroethylvinyl ether	ND	20	"				10-166			30	
2-Chlorotoluene	ND	5.0	"				78-127			30	
2-Hexanone	ND	5.0	"				70-139			30	
4-Chlorotoluene	ND	5.0	"				79-125			30	
4-Methyl-2-pentanone	ND	5.0	"				72-132			30	
Acetone	ND	10	"				36-155			30	
Acrolein	ND	10	"				10-238			30	
Acrylonitrile	ND	5.0	"				66-141			30	
Benzene	ND	5.0	"				77-127			30	
Bromobenzene	ND	5.0	"				77-129			30	
Bromochloromethane	ND	5.0	"				74-129			30	
Bromodichloromethane	ND	5.0	"				81-124			30	
Bromoform	ND	5.0	"				80-136			30	
Bromomethane	ND	5.0	"				32-177			30	
Carbon disulfide	ND	5.0	"				10-136			30	
Carbon tetrachloride	ND	5.0	"				66-143			30	
Chlorobenzene	ND	5.0	"				86-120			30	
Chloroethane	ND	5.0	"				51-142			30	
Chloroform	ND	5.0	"				76-131			30	
Chloromethane	ND	5.0	"				49-132			30	
cis-1,2-Dichloroethylene	ND	5.0	"				74-132			30	
cis-1,3-Dichloropropylene	ND	5.0	"				81-129			30	
Dibromochloromethane	ND	5.0	"				10-200			30	
Dibromomethane	ND	5.0	"				83-124			30	
Dichlorodifluoromethane	ND	5.0	"				28-158			30	
Ethyl Benzene	ND	5.0	"				84-125			30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL21326 - EPA 5035A											
LCS Dup (BL21326-BSD2)						Prepared & Analyzed: 12/23/2022					
Ethyl Ether	930	50	ug/kg wet				70-130		1.06	30	
Ethyl tert-butyl ether (ETBE)	ND	8.0	"				70-130			30	
Hexachlorobutadiene	ND	5.0	"				83-133			30	
Iodomethane	ND	5.0	"				70-130			30	
Isopropylbenzene	ND	5.0	"				81-127			30	
Methyl Methacrylate	ND	5.0	"				79-125			30	
Methyl tert-butyl ether (MTBE)	ND	5.0	"				74-131			30	
Methylene chloride	ND	10	"				57-141			30	
Naphthalene	ND	10	"				86-141			30	
n-Butylbenzene	ND	5.0	"				80-130			30	
n-Propylbenzene	ND	5.0	"				74-136			30	
o-Xylene	ND	5.0	"				83-123			30	
p- & m- Xylenes	ND	10	"				82-128			30	
p-Diethylbenzene	ND	5.0	"				70-144			30	
p-Ethyltoluene	ND	5.0	"				84-123			30	
p-Isopropyltoluene	ND	5.0	"				85-125			30	
sec-Butylbenzene	ND	5.0	"				83-125			30	
Styrene	ND	5.0	"				86-126			30	
tert-Amyl methyl ether (TAME)	ND	8.0	"				70-130			30	
tert-Butylbenzene	ND	5.0	"				80-127			30	
Tetrachloroethylene	ND	5.0	"				80-129			30	
Tetrahydrofuran	ND	10	"				64-137			30	
Toluene	ND	5.0	"				85-121			30	
trans-1,2-Dichloroethylene	ND	5.0	"				72-132			30	
trans-1,3-Dichloropropylene	ND	5.0	"				78-132			30	
Trichloroethylene	ND	5.0	"				84-123			30	
Trichlorofluoromethane	ND	5.0	"				62-140			30	
Vinyl acetate	ND	5.0	"				67-136			30	
Vinyl Chloride	ND	5.0	"				52-130			30	
Allyl chloride	ND	5.0	"				70-130			30	
n-butyl acetate	45		ug/L	50.0		91.0	70-130		5.63	30	
Chlorodifluoromethane (Freon 22)	910		"	50.0		NR	70-130	High Bias	8.12	30	
cis-decahydronaphthalene	53		"	50.0		106	70-130		0.798	30	
trans-decahydronaphthalene	58		"	50.0		115	70-130		1.50	30	
n-Decane	74	5.0	ug/kg wet				70-130		1.80	30	
Ethyl Methacrylate	ND	5.0	"				70-130			30	
Hexachloroethane	ND	5.0	"				70-130			30	
n-Hexane	46		ug/L	50.0		92.9	70-130		2.68	30	
Limonene	61		"	50.0		123	70-130		2.03	30	
Nitrobenzene	ND	5.0	ug/kg wet				70-130			30	
2-Nitropropane	ND	5.0	"				70-130			30	
n-Nonane	61		ug/L	50.0		121	70-130		3.06	30	
n-octane	52		"	50.0		104	70-130		2.76	30	
n-undecane	75		"	50.0		150	70-130	High Bias	1.63	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	47.0		"	50.0		94.1	77-125				
Surrogate: SURR: Toluene-d8	50.5		"	50.0		101	85-120				
Surrogate: SURR: p-Bromofluorobenzene	57.4		"	50.0		115	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21333 - EPA 5035A

Blank (BL21333-BLK1)

Prepared & Analyzed: 12/29/2022

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet
1,1,1-Trichloroethane	ND	5.0	"
1,1,2,2-Tetrachloroethane	ND	5.0	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,1-Dichloroethylene	ND	5.0	"
1,1-Dichloropropylene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	5.0	"
1,2,3-Trichloropropane	ND	5.0	"
1,2,4,5-Tetramethylbenzene	ND	5.0	"
1,2,4-Trichlorobenzene	ND	5.0	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	5.0	"
1,2-Dibromoethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
1,4-Dioxane	ND	100	"
2,2-Dichloropropane	ND	5.0	"
2-Butanone	ND	5.0	"
2-Chloroethylvinyl ether	ND	20	"
2-Chlorotoluene	ND	5.0	"
2-Hexanone	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
4-Methyl-2-pentanone	ND	5.0	"
Acetone	ND	10	"
Acrolein	ND	10	"
Acrylonitrile	ND	5.0	"
Benzene	ND	5.0	"
Bromobenzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
Carbon disulfide	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	5.0	"
cis-1,2-Dichloroethylene	ND	5.0	"
cis-1,3-Dichloropropylene	ND	5.0	"
Dibromochloromethane	ND	5.0	"
Dibromomethane	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"
Ethyl Benzene	ND	5.0	"



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21333 - EPA 5035A

Blank (BL21333-BLK1)

Prepared & Analyzed: 12/29/2022

Ethyl Ether	ND	50	ug/kg wet								
Ethyl tert-butyl ether (ETBE)	ND	8.0	"								
Hexachlorobutadiene	ND	5.0	"								
Iodomethane	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl Methacrylate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Diethylbenzene	ND	5.0	"								
p-Ethyltoluene	ND	5.0	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Amyl methyl ether (TAME)	ND	8.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Tetrahydrofuran	ND	10	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl acetate	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Allyl chloride	ND	5.0	"								
n-butyl acetate	ND	5.0	"								
Chlorodifluoromethane (Freon 22)	ND	5.0	"								
cis-decahydronaphthalene	ND	5.0	"								
trans-decahydronaphthalene	ND	5.0	"								
n-Decane	ND	5.0	"								
Ethyl Methacrylate	ND	5.0	"								
Hexachloroethane	ND	5.0	"								
n-Hexane	ND	5.0	"								
Limonene	ND	5.0	"								
Nitrobenzene	ND	5.0	"								
2-Nitropropane	ND	5.0	"								
n-Nonane	ND	5.0	"								
n-octane	ND	5.0	"								
n-undecane	ND	5.0	"								
Methyl Isothiocyanate (TIC)	ND	50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	54.2		ug/L	50.0		108	77-125				
Surrogate: SURR: Toluene-d8	47.8		"	50.0		95.7	85-120				
Surrogate: SURR: p-Bromofluorobenzene	54.5		"	50.0		109	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL21333 - EPA 5035A											
LCS (BL21333-BS1)						Prepared & Analyzed: 12/29/2022					
1,1,1,2-Tetrachloroethane	52		ug/L	50.0		104	75-129				
1,1,1-Trichloroethane	61		"	50.0		121	71-137				
1,1,2,2-Tetrachloroethane	62		"	50.0		123	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	51		"	50.0		103	58-146				
1,1,2-Trichloroethane	54		"	50.0		109	83-123				
1,1-Dichloroethane	53		"	50.0		106	75-130				
1,1-Dichloroethylene	51		"	50.0		103	64-137				
1,1-Dichloropropylene	57		"	50.0		113	77-127				
1,2,3-Trichlorobenzene	52		"	50.0		104	81-140				
1,2,3-Trichloropropane	57		"	50.0		114	81-126				
1,2,4,5-Tetramethylbenzene	61		"	50.0		123	63-156				
1,2,4-Trichlorobenzene	55		"	50.0		109	80-141				
1,2,4-Trimethylbenzene	54		"	50.0		109	84-125				
1,2-Dibromo-3-chloropropane	67		"	50.0		133	74-142				
1,2-Dibromoethane	57		"	50.0		115	86-123				
1,2-Dichlorobenzene	49		"	50.0		98.4	85-122				
1,2-Dichloroethane	57		"	50.0		115	71-133				
1,2-Dichloropropane	54		"	50.0		109	81-122				
1,3,5-Trimethylbenzene	52		"	50.0		105	82-126				
1,3-Dichlorobenzene	50		"	50.0		100	84-124				
1,3-Dichloropropane	56		"	50.0		112	83-123				
1,4-Dichlorobenzene	50		"	50.0		101	84-124				
1,4-Dioxane	1200		"	1050		116	10-228				
2,2-Dichloropropane	70		"	50.0		139	67-136	High Bias			
2-Butanone	62		"	50.0		125	58-147				
2-Chloroethylvinyl ether	64		"	50.0		129	10-166				
2-Chlorotoluene	56		"	50.0		112	78-127				
2-Hexanone	62		"	50.0		124	70-139				
4-Chlorotoluene	52		"	50.0		104	79-125				
4-Methyl-2-pentanone	60		"	50.0		120	72-132				
Acetone	54		"	50.0		108	36-155				
Acrolein	40		"	50.0		79.9	10-238				
Acrylonitrile	48		"	50.0		96.0	66-141				
Benzene	56		"	50.0		111	77-127				
Bromobenzene	58		"	50.0		115	77-129				
Bromochloromethane	61		"	50.0		122	74-129				
Bromodichloromethane	57		"	50.0		114	81-124				
Bromoform	46		"	50.0		91.2	80-136				
Bromomethane	44		"	50.0		87.3	32-177				
Carbon disulfide	54		"	50.0		109	10-136				
Carbon tetrachloride	59		"	50.0		117	66-143				
Chlorobenzene	54		"	50.0		108	86-120				
Chloroethane	52		"	50.0		104	51-142				
Chloroform	57		"	50.0		114	76-131				
Chloromethane	47		"	50.0		93.3	49-132				
cis-1,2-Dichloroethylene	53		"	50.0		105	74-132				
cis-1,3-Dichloropropylene	62		"	50.0		123	81-129				
Dibromochloromethane	55		"	50.0		110	10-200				
Dibromomethane	55		"	50.0		110	83-124				
Dichlorodifluoromethane	48		"	50.0		95.5	28-158				
Ethyl Benzene	52		"	50.0		105	84-125				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21333 - EPA 5035A

LCS (BL21333-BS1)

Prepared & Analyzed: 12/29/2022

Ethyl Ether	ND	50	ug/kg wet				70-130				
Ethyl tert-butyl ether (ETBE)	63		ug/L	50.0		125	70-130				
Hexachlorobutadiene	49		"	50.0		98.9	83-133				
Iodomethane	65		"	50.0		131	70-130	High Bias			
Isopropylbenzene	57		"	50.0		113	81-127				
Methyl Methacrylate	56		"	50.0		113	79-125				
Methyl tert-butyl ether (MTBE)	61		"	50.0		122	74-131				
Methylene chloride	52		"	50.0		105	57-141				
Naphthalene	58		"	50.0		116	86-141				
n-Butylbenzene	55		"	50.0		111	80-130				
n-Propylbenzene	57		"	50.0		114	74-136				
o-Xylene	54		"	50.0		108	83-123				
p- & m- Xylenes	100		"	100		103	82-128				
p-Diethylbenzene	58		"	50.0		116	70-144				
p-Ethyltoluene	59		"	50.0		118	84-123				
p-Isopropyltoluene	52		"	50.0		105	85-125				
sec-Butylbenzene	56		"	50.0		111	83-125				
Styrene	54		"	50.0		109	86-126				
tert-Amyl methyl ether (TAME)	75		"	50.0		150	70-130	High Bias			
tert-Butylbenzene	54		"	50.0		109	80-127				
Tetrachloroethylene	40		"	50.0		80.9	80-129				
Tetrahydrofuran	59		"	50.0		117	64-137				
Toluene	52		"	50.0		103	85-121				
trans-1,2-Dichloroethylene	55		"	50.0		111	72-132				
trans-1,3-Dichloropropylene	66		"	50.0		131	78-132				
Trichloroethylene	54		"	50.0		108	84-123				
Trichlorofluoromethane	53		"	50.0		106	62-140				
Vinyl acetate	79		"	50.0		157	67-136	High Bias			
Vinyl Chloride	47		"	50.0		95.0	52-130				
Allyl chloride	65		"	50.0		130	70-130				
n-butyl acetate	ND	5.0	ug/kg wet				70-130				
Chlorodifluoromethane (Freon 22)	ND	5.0	"				70-130				
cis-decahydronaphthalene	ND	5.0	"				70-130				
trans-decahydronaphthalene	ND	5.0	"				70-130				
n-Decane	ND	5.0	"				70-130				
Ethyl Methacrylate	57		ug/L	50.0		115	70-130				
Hexachloroethane	ND	5.0	ug/kg wet				70-130				
n-Hexane	ND	5.0	"				70-130				
Limonene	ND	5.0	"				70-130				
Nitrobenzene	50		ug/L	50.0		100	70-130				
2-Nitropropane	72	5.0	ug/kg wet				70-130				
n-Nonane	ND	5.0	"				70-130				
n-octane	ND	5.0	"				70-130				
n-undecane	ND	5.0	"				70-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	53.3		ug/L	50.0		107	77-125				
Surrogate: SURR: Toluene-d8	48.7		"	50.0		97.4	85-120				
Surrogate: SURR: p-Bromofluorobenzene	58.4		"	50.0		117	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21333 - EPA 5035A

LCS (BL21333-BS2)

Prepared & Analyzed: 12/29/2022

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet				75-129				
1,1,1-Trichloroethane	ND	5.0	"				71-137				
1,1,2,2-Tetrachloroethane	ND	5.0	"				79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"				58-146				
1,1,2-Trichloroethane	ND	5.0	"				83-123				
1,1-Dichloroethane	ND	5.0	"				75-130				
1,1-Dichloroethylene	ND	5.0	"				64-137				
1,1-Dichloropropylene	ND	5.0	"				77-127				
1,2,3-Trichlorobenzene	ND	5.0	"				81-140				
1,2,3-Trichloropropane	ND	5.0	"				81-126				
1,2,4,5-Tetramethylbenzene	ND	5.0	"				63-156				
1,2,4-Trichlorobenzene	ND	5.0	"				80-141				
1,2,4-Trimethylbenzene	ND	5.0	"				84-125				
1,2-Dibromo-3-chloropropane	ND	5.0	"				74-142				
1,2-Dibromoethane	ND	5.0	"				86-123				
1,2-Dichlorobenzene	ND	5.0	"				85-122				
1,2-Dichloroethane	ND	5.0	"				71-133				
1,2-Dichloropropane	ND	5.0	"				81-122				
1,3,5-Trimethylbenzene	ND	5.0	"				82-126				
1,3-Dichlorobenzene	ND	5.0	"				84-124				
1,3-Dichloropropane	ND	5.0	"				83-123				
1,4-Dichlorobenzene	ND	5.0	"				84-124				
1,4-Dioxane	ND	100	"				10-228				
2,2-Dichloropropane	ND	5.0	"				67-136				
2-Butanone	ND	5.0	"				58-147				
2-Chloroethylvinyl ether	ND	20	"				10-166				
2-Chlorotoluene	ND	5.0	"				78-127				
2-Hexanone	ND	5.0	"				70-139				
4-Chlorotoluene	ND	5.0	"				79-125				
4-Methyl-2-pentanone	ND	5.0	"				72-132				
Acetone	ND	10	"				36-155				
Acrolein	ND	10	"				10-238				
Acrylonitrile	ND	5.0	"				66-141				
Benzene	ND	5.0	"				77-127				
Bromobenzene	ND	5.0	"				77-129				
Bromochloromethane	ND	5.0	"				74-129				
Bromodichloromethane	ND	5.0	"				81-124				
Bromoform	ND	5.0	"				80-136				
Bromomethane	ND	5.0	"				32-177				
Carbon disulfide	ND	5.0	"				10-136				
Carbon tetrachloride	ND	5.0	"				66-143				
Chlorobenzene	ND	5.0	"				86-120				
Chloroethane	ND	5.0	"				51-142				
Chloroform	ND	5.0	"				76-131				
Chloromethane	ND	5.0	"				49-132				
cis-1,2-Dichloroethylene	ND	5.0	"				74-132				
cis-1,3-Dichloropropylene	ND	5.0	"				81-129				
Dibromochloromethane	ND	5.0	"				10-200				
Dibromomethane	ND	5.0	"				83-124				
Dichlorodifluoromethane	ND	5.0	"				28-158				
Ethyl Benzene	ND	5.0	"				84-125				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL21333 - EPA 5035A											
LCS (BL21333-BS2)						Prepared & Analyzed: 12/29/2022					
Ethyl Ether	570	50	ug/kg wet				70-130				
Ethyl tert-butyl ether (ETBE)	ND	8.0	"				70-130				
Hexachlorobutadiene	ND	5.0	"				83-133				
Iodomethane	ND	5.0	"				70-130				
Isopropylbenzene	ND	5.0	"				81-127				
Methyl Methacrylate	ND	5.0	"				79-125				
Methyl tert-butyl ether (MTBE)	ND	5.0	"				74-131				
Methylene chloride	ND	10	"				57-141				
Naphthalene	ND	10	"				86-141				
n-Butylbenzene	ND	5.0	"				80-130				
n-Propylbenzene	ND	5.0	"				74-136				
o-Xylene	ND	5.0	"				83-123				
p- & m- Xylenes	ND	10	"				82-128				
p-Diethylbenzene	ND	5.0	"				70-144				
p-Ethyltoluene	ND	5.0	"				84-123				
p-Isopropyltoluene	ND	5.0	"				85-125				
sec-Butylbenzene	ND	5.0	"				83-125				
Styrene	ND	5.0	"				86-126				
tert-Amyl methyl ether (TAME)	ND	8.0	"				70-130				
tert-Butylbenzene	ND	5.0	"				80-127				
Tetrachloroethylene	ND	5.0	"				80-129				
Tetrahydrofuran	ND	10	"				64-137				
Toluene	ND	5.0	"				85-121				
trans-1,2-Dichloroethylene	ND	5.0	"				72-132				
trans-1,3-Dichloropropylene	ND	5.0	"				78-132				
Trichloroethylene	ND	5.0	"				84-123				
Trichlorofluoromethane	ND	5.0	"				62-140				
Vinyl acetate	ND	5.0	"				67-136				
Vinyl Chloride	ND	5.0	"				52-130				
Allyl chloride	ND	5.0	"				70-130				
n-butyl acetate	65		ug/L	50.0		131	70-130	High Bias			
Chlorodifluoromethane (Freon 22)	560		"	50.0		NR	70-130	High Bias			
cis-decahydronaphthalene	49		"	50.0		98.5	70-130				
trans-decahydronaphthalene	48		"	50.0		96.8	70-130				
n-Decane	68	5.0	ug/kg wet				70-130				
Ethyl Methacrylate	ND	5.0	"				70-130				
Hexachloroethane	ND	5.0	"				70-130				
n-Hexane	66		ug/L	50.0		133	70-130	High Bias			
Limonene	51		"	50.0		102	70-130				
Nitrobenzene	ND	5.0	ug/kg wet				70-130				
2-Nitropropane	ND	5.0	"				70-130				
n-Nonane	80		ug/L	50.0		160	70-130	High Bias			
n-octane	78		"	50.0		155	70-130	High Bias			
n-undecane	68		"	50.0		136	70-130	High Bias			
Surrogate: SURR: 1,2-Dichloroethane-d4	65.1		"	50.0		130	77-125				
Surrogate: SURR: Toluene-d8	53.0		"	50.0		106	85-120				
Surrogate: SURR: p-Bromofluorobenzene	57.0		"	50.0		114	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL21333 - EPA 5035A											
LCS Dup (BL21333-BSD1)						Prepared & Analyzed: 12/29/2022					
1,1,1,2-Tetrachloroethane	50		ug/L	50.0		99.1	75-129		4.54	30	
1,1,1-Trichloroethane	60		"	50.0		119	71-137		1.50	30	
1,1,2,2-Tetrachloroethane	59		"	50.0		119	79-129		3.71	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	51		"	50.0		102	58-146		0.940	30	
1,1,2-Trichloroethane	53		"	50.0		106	83-123		2.82	30	
1,1-Dichloroethane	53		"	50.0		105	75-130		0.341	30	
1,1-Dichloroethylene	50		"	50.0		99.1	64-137		3.82	30	
1,1-Dichloropropylene	56		"	50.0		112	77-127		0.924	30	
1,2,3-Trichlorobenzene	50		"	50.0		101	81-140		3.32	30	
1,2,3-Trichloropropane	55		"	50.0		110	81-126		3.11	30	
1,2,4,5-Tetramethylbenzene	60		"	50.0		121	63-156		1.57	30	
1,2,4-Trichlorobenzene	53		"	50.0		106	80-141		2.86	30	
1,2,4-Trimethylbenzene	53		"	50.0		106	84-125		2.42	30	
1,2-Dibromo-3-chloropropane	62		"	50.0		123	74-142		8.04	30	
1,2-Dibromoethane	57		"	50.0		113	86-123		1.35	30	
1,2-Dichlorobenzene	48		"	50.0		95.8	85-122		2.70	30	
1,2-Dichloroethane	58		"	50.0		115	71-133		0.295	30	
1,2-Dichloropropane	54		"	50.0		108	81-122		0.425	30	
1,3,5-Trimethylbenzene	51		"	50.0		103	82-126		2.23	30	
1,3-Dichlorobenzene	49		"	50.0		97.4	84-124		2.67	30	
1,3-Dichloropropane	55		"	50.0		111	83-123		1.11	30	
1,4-Dichlorobenzene	49		"	50.0		97.9	84-124		2.70	30	
1,4-Dioxane	1200		"	1050		116	10-228		0.220	30	
2,2-Dichloropropane	67		"	50.0		134	67-136		3.48	30	
2-Butanone	62		"	50.0		124	58-147		0.482	30	
2-Chloroethylvinyl ether	63		"	50.0		127	10-166		1.72	30	
2-Chlorotoluene	55		"	50.0		110	78-127		1.67	30	
2-Hexanone	58		"	50.0		115	70-139		7.30	30	
4-Chlorotoluene	51		"	50.0		102	79-125		1.15	30	
4-Methyl-2-pentanone	56		"	50.0		111	72-132		7.62	30	
Acetone	54		"	50.0		107	36-155		0.502	30	
Acrolein	39		"	50.0		77.8	10-238		2.74	30	
Acrylonitrile	48		"	50.0		95.5	66-141		0.522	30	
Benzene	55		"	50.0		111	77-127		0.216	30	
Bromobenzene	56		"	50.0		113	77-129		2.23	30	
Bromochloromethane	60		"	50.0		120	74-129		1.98	30	
Bromodichloromethane	56		"	50.0		112	81-124		1.88	30	
Bromoform	45		"	50.0		90.0	80-136		1.32	30	
Bromomethane	44		"	50.0		87.7	32-177		0.389	30	
Carbon disulfide	58		"	50.0		116	10-136		7.00	30	
Carbon tetrachloride	57		"	50.0		114	66-143		2.92	30	
Chlorobenzene	53		"	50.0		105	86-120		2.70	30	
Chloroethane	50		"	50.0		100	51-142		4.06	30	
Chloroform	56		"	50.0		112	76-131		1.82	30	
Chloromethane	48		"	50.0		96.5	49-132		3.44	30	
cis-1,2-Dichloroethylene	58		"	50.0		116	74-132		9.74	30	
cis-1,3-Dichloropropylene	60		"	50.0		120	81-129		2.80	30	
Dibromochloromethane	53		"	50.0		107	10-200		2.70	30	
Dibromomethane	54		"	50.0		109	83-124		0.659	30	
Dichlorodifluoromethane	47		"	50.0		93.2	28-158		2.44	30	
Ethyl Benzene	52		"	50.0		103	84-125		1.59	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL21333 - EPA 5035A											
LCS Dup (BL21333-BSD1)						Prepared & Analyzed: 12/29/2022					
Ethyl Ether	ND	50	ug/kg wet				70-130			30	
Ethyl tert-butyl ether (ETBE)	62		ug/L	50.0		123	70-130		1.50	30	
Hexachlorobutadiene	48		"	50.0		96.1	83-133		2.89	30	
Iodomethane	68		"	50.0		136	70-130	High Bias	4.11	30	
Isopropylbenzene	55		"	50.0		111	81-127		2.09	30	
Methyl Methacrylate	54		"	50.0		109	79-125		3.40	30	
Methyl tert-butyl ether (MTBE)	61		"	50.0		122	74-131		0.246	30	
Methylene chloride	53		"	50.0		105	57-141		0.342	30	
Naphthalene	56		"	50.0		111	86-141		3.72	30	
n-Butylbenzene	54		"	50.0		108	80-130		2.32	30	
n-Propylbenzene	56		"	50.0		112	74-136		1.63	30	
o-Xylene	53		"	50.0		106	83-123		2.04	30	
p- & m- Xylenes	100		"	100		101	82-128		1.93	30	
p-Diethylbenzene	58		"	50.0		116	70-144		0.0860	30	
p-Ethyltoluene	57		"	50.0		115	84-123		2.65	30	
p-Isopropyltoluene	51		"	50.0		102	85-125		2.43	30	
sec-Butylbenzene	54		"	50.0		108	83-125		2.40	30	
Styrene	53		"	50.0		106	86-126		2.25	30	
tert-Amyl methyl ether (TAME)	74		"	50.0		147	70-130	High Bias	2.13	30	
tert-Butylbenzene	53		"	50.0		106	80-127		2.74	30	
Tetrachloroethylene	40		"	50.0		80.0	80-129		1.14	30	
Tetrahydrofuran	57		"	50.0		114	64-137		2.94	30	
Toluene	51		"	50.0		101	85-121		1.58	30	
trans-1,2-Dichloroethylene	55		"	50.0		110	72-132		0.199	30	
trans-1,3-Dichloropropylene	63		"	50.0		125	78-132		4.62	30	
Trichloroethylene	53		"	50.0		105	84-123		2.68	30	
Trichlorofluoromethane	54		"	50.0		108	62-140		1.62	30	
Vinyl acetate	71		"	50.0		143	67-136	High Bias	9.75	30	
Vinyl Chloride	48		"	50.0		95.2	52-130		0.273	30	
Allyl chloride	63		"	50.0		125	70-130		3.88	30	
n-butyl acetate	ND	5.0	ug/kg wet				70-130			30	
Chlorodifluoromethane (Freon 22)	ND	5.0	"				70-130			30	
cis-decahydronaphthalene	ND	5.0	"				70-130			30	
trans-decahydronaphthalene	ND	5.0	"				70-130			30	
n-Decane	ND	5.0	"				70-130			30	
Ethyl Methacrylate	58		ug/L	50.0		115	70-130		0.521	30	
Hexachloroethane	ND	5.0	ug/kg wet				70-130			30	
n-Hexane	ND	5.0	"				70-130			30	
Limonene	ND	5.0	"				70-130			30	
Nitrobenzene	50		ug/L	50.0		99.4	70-130		0.961	30	
2-Nitropropane	61	5.0	ug/kg wet				70-130		16.0	30	
n-Nonane	ND	5.0	"				70-130			30	
n-octane	ND	5.0	"				70-130			30	
n-undecane	ND	5.0	"				70-130			30	
Surrogate: SURR: 1,2-Dichloroethane-d4	54.1		ug/L	50.0		108	77-125				
Surrogate: SURR: Toluene-d8	48.6		"	50.0		97.1	85-120				
Surrogate: SURR: p-Bromofluorobenzene	58.1		"	50.0		116	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	Limit	Flag
Batch BL21333 - EPA 5035A											
LCS Dup (BL21333-BSD2)						Prepared & Analyzed: 12/29/2022					
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet				75-129			30	
1,1,1-Trichloroethane	ND	5.0	"				71-137			30	
1,1,2,2-Tetrachloroethane	ND	5.0	"				79-129			30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"				58-146			30	
1,1,2-Trichloroethane	ND	5.0	"				83-123			30	
1,1-Dichloroethane	ND	5.0	"				75-130			30	
1,1-Dichloroethylene	ND	5.0	"				64-137			30	
1,1-Dichloropropylene	ND	5.0	"				77-127			30	
1,2,3-Trichlorobenzene	ND	5.0	"				81-140			30	
1,2,3-Trichloropropane	ND	5.0	"				81-126			30	
1,2,4,5-Tetramethylbenzene	ND	5.0	"				63-156			30	
1,2,4-Trichlorobenzene	ND	5.0	"				80-141			30	
1,2,4-Trimethylbenzene	ND	5.0	"				84-125			30	
1,2-Dibromo-3-chloropropane	ND	5.0	"				74-142			30	
1,2-Dibromoethane	ND	5.0	"				86-123			30	
1,2-Dichlorobenzene	ND	5.0	"				85-122			30	
1,2-Dichloroethane	ND	5.0	"				71-133			30	
1,2-Dichloropropane	ND	5.0	"				81-122			30	
1,3,5-Trimethylbenzene	ND	5.0	"				82-126			30	
1,3-Dichlorobenzene	ND	5.0	"				84-124			30	
1,3-Dichloropropane	ND	5.0	"				83-123			30	
1,4-Dichlorobenzene	ND	5.0	"				84-124			30	
1,4-Dioxane	ND	100	"				10-228			30	
2,2-Dichloropropane	ND	5.0	"				67-136			30	
2-Butanone	ND	5.0	"				58-147			30	
2-Chloroethylvinyl ether	ND	20	"				10-166			30	
2-Chlorotoluene	ND	5.0	"				78-127			30	
2-Hexanone	ND	5.0	"				70-139			30	
4-Chlorotoluene	ND	5.0	"				79-125			30	
4-Methyl-2-pentanone	ND	5.0	"				72-132			30	
Acetone	ND	10	"				36-155			30	
Acrolein	ND	10	"				10-238			30	
Acrylonitrile	ND	5.0	"				66-141			30	
Benzene	ND	5.0	"				77-127			30	
Bromobenzene	ND	5.0	"				77-129			30	
Bromochloromethane	ND	5.0	"				74-129			30	
Bromodichloromethane	ND	5.0	"				81-124			30	
Bromoform	ND	5.0	"				80-136			30	
Bromomethane	ND	5.0	"				32-177			30	
Carbon disulfide	ND	5.0	"				10-136			30	
Carbon tetrachloride	ND	5.0	"				66-143			30	
Chlorobenzene	ND	5.0	"				86-120			30	
Chloroethane	ND	5.0	"				51-142			30	
Chloroform	ND	5.0	"				76-131			30	
Chloromethane	ND	5.0	"				49-132			30	
cis-1,2-Dichloroethylene	ND	5.0	"				74-132			30	
cis-1,3-Dichloropropylene	ND	5.0	"				81-129			30	
Dibromochloromethane	ND	5.0	"				10-200			30	
Dibromomethane	ND	5.0	"				83-124			30	
Dichlorodifluoromethane	ND	5.0	"				28-158			30	
Ethyl Benzene	ND	5.0	"				84-125			30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL21333 - EPA 5035A											
LCS Dup (BL21333-BSD2)						Prepared & Analyzed: 12/29/2022					
Ethyl Ether	570	50	ug/kg wet				70-130		0.599	30	
Ethyl tert-butyl ether (ETBE)	ND	8.0	"				70-130			30	
Hexachlorobutadiene	ND	5.0	"				83-133			30	
Iodomethane	ND	5.0	"				70-130			30	
Isopropylbenzene	ND	5.0	"				81-127			30	
Methyl Methacrylate	ND	5.0	"				79-125			30	
Methyl tert-butyl ether (MTBE)	ND	5.0	"				74-131			30	
Methylene chloride	ND	10	"				57-141			30	
Naphthalene	ND	10	"				86-141			30	
n-Butylbenzene	ND	5.0	"				80-130			30	
n-Propylbenzene	ND	5.0	"				74-136			30	
o-Xylene	ND	5.0	"				83-123			30	
p- & m- Xylenes	ND	10	"				82-128			30	
p-Diethylbenzene	ND	5.0	"				70-144			30	
p-Ethyltoluene	ND	5.0	"				84-123			30	
p-Isopropyltoluene	ND	5.0	"				85-125			30	
sec-Butylbenzene	ND	5.0	"				83-125			30	
Styrene	ND	5.0	"				86-126			30	
tert-Amyl methyl ether (TAME)	ND	8.0	"				70-130			30	
tert-Butylbenzene	ND	5.0	"				80-127			30	
Tetrachloroethylene	ND	5.0	"				80-129			30	
Tetrahydrofuran	ND	10	"				64-137			30	
Toluene	ND	5.0	"				85-121			30	
trans-1,2-Dichloroethylene	ND	5.0	"				72-132			30	
trans-1,3-Dichloropropylene	ND	5.0	"				78-132			30	
Trichloroethylene	ND	5.0	"				84-123			30	
Trichlorofluoromethane	ND	5.0	"				62-140			30	
Vinyl acetate	ND	5.0	"				67-136			30	
Vinyl Chloride	ND	5.0	"				52-130			30	
Allyl chloride	ND	5.0	"				70-130			30	
n-butyl acetate	68		ug/L	50.0		136	70-130	High Bias	4.03	30	
Chlorodifluoromethane (Freon 22)	550		"	50.0		NR	70-130	High Bias	1.69	30	
cis-decahydronaphthalene	50		"	50.0		99.3	70-130		0.728	30	
trans-decahydronaphthalene	50		"	50.0		100	70-130		3.43	30	
n-Decane	69	5.0	ug/kg wet				70-130		2.20	30	
Ethyl Methacrylate	ND	5.0	"				70-130			30	
Hexachloroethane	ND	5.0	"				70-130			30	
n-Hexane	64		ug/L	50.0		128	70-130		3.48	30	
Limonene	52		"	50.0		104	70-130		1.93	30	
Nitrobenzene	ND	5.0	ug/kg wet				70-130			30	
2-Nitropropane	ND	5.0	"				70-130			30	
n-Nonane	82		ug/L	50.0		164	70-130	High Bias	2.32	30	
n-octane	78		"	50.0		157	70-130	High Bias	0.795	30	
n-undecane	71		"	50.0		142	70-130	High Bias	4.29	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	64.7		"	50.0		129	77-125				
Surrogate: SURR: Toluene-d8	54.0		"	50.0		108	85-120				
Surrogate: SURR: p-Bromofluorobenzene	57.1		"	50.0		114	76-130				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21479 - EPA 3550C

Matrix Spike (BL21479-MS1)		*Source sample: 22L1181-15 (Matrix Spike)						Prepared: 12/24/2022 Analyzed: 12/27/2022			
Acenaphthene	603	88.6	ug/kg dry	885	ND	68.1	13-133				
Anthracene	667	88.6	"	885	ND	75.4	27-128				
Benzo(a)anthracene	700	88.6	"	885	ND	79.0	20-147				
Benzo(a)pyrene	434	88.6	"	885	ND	49.0	18-153				
Benzo(b)fluoranthene	508	88.6	"	885	ND	57.4	10-163				
Benzo(g,h,i)perylene	378	88.6	"	885	ND	42.7	10-157				
Benzo(k)fluoranthene	489	88.6	"	885	ND	55.3	10-157				
Chrysene	633	88.6	"	885	ND	71.5	18-133				
Dibenzo(a,h)anthracene	426	88.6	"	885	ND	48.2	10-146				
Fluoranthene	656	88.6	"	885	ND	74.1	10-155				
Fluorene	605	88.6	"	885	ND	68.4	12-150				
Indeno(1,2,3-cd)pyrene	474	88.6	"	885	ND	53.6	10-155				
Phenanthrene	629	88.6	"	885	ND	71.0	10-151				
Pyrene	702	88.6	"	885	ND	79.3	13-148				
Surrogate: SURR: Nitrobenzene-d5	737		"	885		83.3	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	634		"	885		71.6	21-113				
Surrogate: SURR: Terphenyl-d14	721		"	885		81.4	24-116				

Matrix Spike Dup (BL21479-MSD1)		*Source sample: 22L1181-15 (Matrix Spike Dup)						Prepared: 12/24/2022 Analyzed: 12/27/2022			
Acenaphthene	496	88.6	ug/kg dry	885	ND	56.0	13-133	19.5	30		
Anthracene	537	88.6	"	885	ND	60.6	27-128	21.6	30		
Benzo(a)anthracene	565	88.6	"	885	ND	63.8	20-147	21.3	30		
Benzo(a)pyrene	436	88.6	"	885	ND	49.2	18-153	0.326	30		
Benzo(b)fluoranthene	479	88.6	"	885	ND	54.2	10-163	5.88	30		
Benzo(g,h,i)perylene	351	88.6	"	885	ND	39.7	10-157	7.38	30		
Benzo(k)fluoranthene	462	88.6	"	885	ND	52.2	10-157	5.81	30		
Chrysene	515	88.6	"	885	ND	58.2	18-133	20.6	30		
Dibenzo(a,h)anthracene	386	88.6	"	885	ND	43.6	10-146	9.94	30		
Fluoranthene	525	88.6	"	885	ND	59.4	10-155	22.1	30		
Fluorene	506	88.6	"	885	ND	57.2	12-150	17.8	30		
Indeno(1,2,3-cd)pyrene	423	88.6	"	885	ND	47.8	10-155	11.5	30		
Phenanthrene	506	88.6	"	885	ND	57.2	10-151	21.6	30		
Pyrene	547	88.6	"	885	ND	61.8	13-148	24.8	30		
Surrogate: SURR: Nitrobenzene-d5	647		"	885		73.0	22-108				
Surrogate: SURR: 2-Fluorobiphenyl	522		"	885		59.0	21-113				
Surrogate: SURR: Terphenyl-d14	574		"	885		64.8	24-116				



Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21456 - EPA 3550C

Blank (BL21456-BLK2)

Prepared: 12/23/2022 Analyzed: 12/30/2022

Aroclor 1016	ND	0.0167	mg/kg wet								
Aroclor 1221	ND	0.0167	"								
Aroclor 1232	ND	0.0167	"								
Aroclor 1242	ND	0.0167	"								
Aroclor 1248	ND	0.0167	"								
Aroclor 1254	ND	0.0167	"								
Aroclor 1260	ND	0.0167	"								
Total PCBs	ND	0.0167	"								
Surrogate: Tetrachloro-m-xylene	0.0597		"	0.0667		89.5	30-120				
Surrogate: Decachlorobiphenyl	0.0693		"	0.0667		104	30-120				

LCS (BL21456-BS2)

Prepared: 12/23/2022 Analyzed: 12/30/2022

Aroclor 1016	0.283	0.0167	mg/kg wet	0.333		85.0	40-130				
Aroclor 1260	0.301	0.0167	"	0.333		90.2	40-130				
Surrogate: Tetrachloro-m-xylene	0.0553		"	0.0667		83.0	30-120				
Surrogate: Decachlorobiphenyl	0.0587		"	0.0667		88.0	30-120				

Matrix Spike (BL21456-MS2)

*Source sample: 22L1181-15 (Matrix Spike)

Prepared: 12/23/2022 Analyzed: 12/30/2022

Aroclor 1016	0.282	0.0178	mg/kg dry	0.355	ND	79.3	40-140				
Aroclor 1260	0.291	0.0178	"	0.355	ND	81.9	40-140				
Surrogate: Tetrachloro-m-xylene	0.0526		"	0.0711		74.0	30-120				
Surrogate: Decachlorobiphenyl	0.0512		"	0.0711		72.0	30-120				

Matrix Spike Dup (BL21456-MSD2)

*Source sample: 22L1181-15 (Matrix Spike Dup)

Prepared: 12/23/2022 Analyzed: 12/30/2022

Aroclor 1016	0.334	0.0178	mg/kg dry	0.355	ND	94.0	40-140	17.0	50		
Aroclor 1260	0.335	0.0178	"	0.355	ND	94.4	40-140	14.2	50		
Surrogate: Tetrachloro-m-xylene	0.0654		"	0.0711		92.0	30-120				
Surrogate: Decachlorobiphenyl	0.0629		"	0.0711		88.5	30-120				



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21499 - EPA 3015A/1311

Blank (BL21499-BLK1)								Prepared & Analyzed: 12/27/2022			
Lead	ND	0.00556	mg/L								
LCS (BL21499-BS1)								Prepared & Analyzed: 12/27/2022			
Lead	0.447		ug/mL	0.500		89.5	80-120				
Duplicate (BL21499-DUP1)								Prepared & Analyzed: 12/27/2022			
*Source sample: 22L1208-04 (Duplicate)											
Lead	ND	0.125	mg/L		ND					20	
Leach Fluid Blank (BL21499-LBK1)								Prepared & Analyzed: 12/27/2022			
Lead	ND	0.125	mg/L								
Matrix Spike (BL21499-MS1)								Prepared & Analyzed: 12/27/2022			
*Source sample: 22L1208-04 (Matrix Spike)											
Lead	11.7	0.125	mg/L	12.5	ND	93.7	75-125				
Post Spike (BL21499-PS1)								Prepared & Analyzed: 12/27/2022			
*Source sample: 22L1208-04 (Post Spike)											
Lead	0.569		ug/mL	0.500	0.00104	114	75-125				

Batch BL21707 - EPA 3050B

Blank (BL21707-BLK1)								Prepared: 12/29/2022 Analyzed: 12/30/2022			
Arsenic	ND	1.25	mg/kg wet								
Barium	ND	2.08	"								
Beryllium	ND	0.042	"								
Cadmium	ND	0.250	"								
Chromium	ND	0.417	"								
Copper	ND	1.67	"								
Lead	ND	0.417	"								
Nickel	ND	0.833	"								
Selenium	ND	2.08	"								
Silver	ND	0.417	"								



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21707 - EPA 3050B

Duplicate (BL21707-DUP1)		*Source sample: 22L1228-03 (Duplicate)					Prepared: 12/29/2022 Analyzed: 12/30/2022				
Arsenic	9.32	1.39	mg/kg dry		6.22				39.9	35	Non-dir.
Barium	48.7	2.32	"		38.2				24.2	35	
Beryllium	0.585	0.046	"		0.431				30.4	35	
Cadmium	ND	0.278	"		ND					35	
Chromium	16.7	0.464	"		12.4				30.1	35	
Copper	16.8	1.85	"		13.2				24.4	35	
Lead	43.9	0.464	"		32.9				28.6	35	
Nickel	11.4	0.927	"		8.67				27.5	35	
Selenium	ND	2.32	"		ND					35	
Silver	ND	0.464	"		ND					35	

Matrix Spike (BL21707-MS1)		*Source sample: 22L1228-03 (Matrix Spike)					Prepared: 12/29/2022 Analyzed: 12/30/2022				
Arsenic	179	1.39	mg/kg dry	185	6.22	93.4	75-125				
Barium	248	2.32	"	185	38.2	113	75-125				
Beryllium	5.30	0.046	"	4.64	0.431	105	75-125				
Cadmium	4.49	0.278	"	4.64	ND	97.0	75-125				
Chromium	34.1	0.464	"	18.5	12.4	117	75-125				
Copper	40.2	1.85	"	23.2	13.2	117	75-125				
Lead	80.9	0.464	"	46.4	32.9	103	75-125				
Nickel	60.4	0.927	"	46.4	8.67	112	75-125				
Selenium	125	2.32	"	185	ND	67.3	75-125	Low Bias			
Silver	0.622	0.464	"	4.64	ND	13.4	75-125	Low Bias			

Post Spike (BL21707-PS1)		*Source sample: 22L1228-03 (Post Spike)					Prepared: 12/29/2022 Analyzed: 12/30/2022				
Arsenic	2.16		ug/mL	2.00	0.067	105	75-125				
Barium	2.69		"	2.00	0.412	114	75-125				
Beryllium	0.059		"	0.0500	0.005	108	75-125				
Cadmium	0.054		"	0.0500	0.001	105	75-125				
Chromium	0.347		"	0.200	0.133	107	75-125				
Copper	0.430		"	0.250	0.142	115	75-125				
Lead	0.869		"	0.500	0.355	103	75-125				
Nickel	0.674		"	0.500	0.093	116	75-125				
Selenium	1.56		"	2.00	-0.152	78.1	75-125				
Silver	0.018		"	0.0500	-0.040	35.4	75-125	Low Bias			



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21707 - EPA 3050B

Reference (BL21707-SRM1)

Prepared: 12/29/2022 Analyzed: 12/30/2022

Arsenic	87.1	1.25	mg/kg wet	87.4		99.7	70-130.4				
Barium	374	2.08	"	347		108	75.2-130.3				
Beryllium	104	0.042	"	103		101	74.8-132				
Cadmium	148	0.250	"	160		92.7	75-145.6				
Chromium	231	0.417	"	231		99.9	70.1-134.2				
Copper	157	1.67	"	144		109	75-126.4				
Lead	253	0.417	"	266		95.0	74.1-125.9				
Nickel	375	0.833	"	350		107	70-144				
Selenium	87.5	2.08	"	130		67.3	66.9-133.8				
Silver	58.5	0.417	"	57.1		102	70.2-129.8				



Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL21717 - EPA 7473 soil											
Blank (BL21717-BLK1)								Prepared & Analyzed: 12/29/2022			
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BL21717-DUP1)								Prepared & Analyzed: 12/29/2022			
Mercury	ND	0.0314	mg/kg dry		ND					35	
Matrix Spike (BL21717-MS1)								Prepared & Analyzed: 12/29/2022			
Mercury	0.466		mg/kg	0.500	0.0222	88.8	75-125				
Reference (BL21717-SRM1)								Prepared & Analyzed: 12/29/2022			
Mercury	27.131		mg/kg	27.2		99.7	59.9-140.1				
Batch BL21753 - EPA 7473 soil											
Blank (BL21753-BLK1)								Prepared & Analyzed: 12/30/2022			
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BL21753-DUP1)								Prepared & Analyzed: 12/30/2022			
Mercury	1.74	0.0717	mg/kg dry		1.92				9.63	35	
Matrix Spike (BL21753-MS1)								Prepared & Analyzed: 12/30/2022			
Mercury	1.17		mg/kg	0.500	0.802	72.7	75-125	Low Bias			
Reference (BL21753-SRM1)								Prepared & Analyzed: 12/30/2022			
Mercury	19.193		mg/kg	27.2		70.6	59.9-140.1				



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21621 - % Solids Prep

Duplicate (BL21621-DUP1)	*Source sample: 22L1277-01 (Duplicate)							Prepared & Analyzed: 12/28/2022			
% Solids	93.8	0.100	%		94.0				0.270	20	



Leachate Preparations - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL21370 - EPA SW 846-1311 TCLP ext. for metals

Blank (BL21370-BLK1)

Prepared: 12/22/2022 Analyzed: 12/23/2022

TCLP Extraction	Completed	1.00	N/A
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Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
22L1187-01	S-16	40mL Vial with Stir Bar-Cool 4° C
22L1187-02	S-17 DW	40mL Vial with Stir Bar-Cool 4° C
22L1187-04	S-3	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
22L1187-05	S-2	40mL Vial with Stir Bar-Cool 4° C



Sample and Data Qualifiers Relating to This Work Order

S-08	The recovery of this surrogate was outside of QC limits.
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interferences.
S-03	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. This effect was confirmed by reanalysis.
S-01	The surrogate recovery for this sample may not be available due to sample dilution required from high analyte concentration and/or matrix interferences.
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-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
M-PS	This Element exhibited recovery outside control limits for the Post Spike.
M-DUPS	The RPD between the native sample and the duplicate is outside of limits due to sample non-homogeneity
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.
EXT-Temp	Extraction temperture slightly exceeded acceptance range.
EXT-COMP	Completed
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.



- High Bias** High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- Non-Dir.** Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

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

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



Field Chain-of-Custody Record

Your signature binds you to YORK's Standard Terms & Conditions.

Your signature binds you to YORK's Standard Terms & Conditions.

YOUR INFORMATION Company: <u>PWGrasser Consulting</u> Address: <u>630 Johnson Ave</u> <u>Bohemia, NY</u> Phone: <u>631-589-6353</u> Contact: <u>Tom Melia</u> E-mail: <u>Thomas.m@pwgrasser.com</u>		Report To: Company: <u> </u> Address: <u> </u> Phone: <u> </u> Contact: <u> </u> E-mail: <u> </u>		Invoice To: Company: <u> </u> Address: <u> </u> Phone: <u> </u> Contact: <u> </u> E-mail: <u> </u>		YOUR Project Number <u>SHD2201</u> YOUR Project Name <u>BOMARC</u> YOUR PO#:		Turn-Around Time RUSH - Next Day ☐ RUSH - Two Day ☐ RUSH - Three Day ☐ RUSH - Four Day ☐ Standard (5-7 Day) ☒ (7-10 for PFAS)	
YOUR INFORMATION Company: <u>PWGrasser Consulting</u> Address: <u>630 Johnson Ave</u> <u>Bohemia, NY</u> Phone: <u>631-589-6353</u> Contact: <u>Tom Melia</u> E-mail: <u>Thomas.m@pwgrasser.com</u>		Report To: Company: <u> </u> Address: <u> </u> Phone: <u> </u> Contact: <u> </u> E-mail: <u> </u>		Invoice To: Company: <u> </u> Address: <u> </u> Phone: <u> </u> Contact: <u> </u> E-mail: <u> </u>		YOUR Project Number <u>SHD2201</u> YOUR Project Name <u>BOMARC</u> YOUR PO#:		Turn-Around Time RUSH - Next Day ☐ RUSH - Two Day ☐ RUSH - Three Day ☐ RUSH - Four Day ☐ Standard (5-7 Day) ☒ (7-10 for PFAS)	
Matrix Codes S - soil / solid ☒ GW - groundwater ☐ DW - drinking water ☐ WW - wastewater ☐ O - Oil ☐ Other: <u> </u>		Samples From New York ☒ New Jersey ☐ Connecticut ☐ Pennsylvania ☐ Other: <u> </u>		Report / EDD Type (circle selections) Summary Report ☐ CT RCP ☐ EQUIS (Standard) QA Report ☐ CT RCP DQADUE NYSDEC EQUIS Standard Excel EDD ☐ NJDEP Reduced NJDKQP <u>NY ASP B Package</u> ☒ Deliverables NJDEP SRP HazSite Other: <u> </u>		YORK Reg. Comp. Compared to the following Regulation(s): (please fill in)		Container Type No. <u> </u>	
Sample Identification Samples Collected by: (print AND sign your name) <u>Kylie Benz</u> <u>Kylie Benz</u>		Sample Matrix <u>S</u> <u> </u> <u> </u> <u> </u> <u> </u>		Date/Time Sampled <u>12/21/20 09:15</u> <u>12/21/20 10:30</u> <u>12/21/20 11:10</u> <u>12/21/20 12:00</u> <u>12/21/20 12:35</u>		Analyses Requested <u>VOCs, SVOCs, Metals, PCBs</u> <u>and TCLP (Lead)</u>		Special Instruction Field Filtered ☐ Lab to Filter ☐	
Comments: <u>TCLP (Lead) only for S-18</u>		Preservation: (check all that apply) HCl ☐ MeOH ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ ZnAc ☐ Ascorbic Acid ☐ Other: <u> </u>		Date/Time <u>12/21/20 14:00</u>		Date/Time <u>12/21/20 1748</u>		Temperature <u>3.0</u> Degrees C	
1. Samples Relinquished by / Company <u> </u>		2. Samples Relinquished by / Company <u> </u>		3. Samples Relinquished by / Company <u> </u>		4. Samples Relinquished by / Company <u> </u>		5. Samples Relinquished by / Company <u> </u>	



ANALYTICAL REPORT

Lab Number:	L2316688
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	Thomas Melia
Phone:	(631) 589-6353
Project Name:	BOMARC
Project Number:	SHD2201
Report Date:	04/13/23

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: BOMARC
Project Number: SHD2201

Lab Number: L2316688
Report Date: 04/13/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2316688-01	S-16A (0-6")	SOIL	WEST HAMPTON BEACH, NY	03/30/23 09:50	03/30/23
L2316688-02	S-16A (6-12")	SOIL	WEST HAMPTON BEACH, NY	03/30/23 10:05	03/30/23

Project Name: BOMARC
Project Number: SHD2201

Lab Number: L2316688
Report Date: 04/13/23

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: BOMARC
Project Number: SHD2201

Lab Number: L2316688
Report Date: 04/13/23

Case Narrative (continued)

Report Submission

April 13, 2023: This final report includes the results of the following analyses:

L2316688-02: PCBs

April 07, 2023: This is a preliminary report.

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

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

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 04/13/23

ORGANICS

VOLATILES

Project Name: BOMARC**Lab Number:** L2316688**Project Number:** SHD2201**Report Date:** 04/13/23**SAMPLE RESULTS**

Lab ID: L2316688-01
 Client ID: S-16A (0-6")
 Sample Location: WEST HAMPTON BEACH, NY

Date Collected: 03/30/23 09:50
 Date Received: 03/30/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 04/04/23 14:47
 Analyst: LAC
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.2	3.3	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.21	1
Chloroform	ND		ug/kg	2.1	0.20	1
Carbon tetrachloride	ND		ug/kg	1.4	0.33	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.18	1
Dibromochloromethane	ND		ug/kg	1.4	0.20	1
2-Chloroethylvinyl ether	ND		ug/kg	29	2.3	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.38	1
Tetrachloroethene	ND		ug/kg	0.72	0.28	1
Chlorobenzene	ND		ug/kg	0.72	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.7	1.0	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.37	1
1,1,1-Trichloroethane	ND		ug/kg	0.72	0.24	1
Bromodichloromethane	ND		ug/kg	0.72	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.39	1
cis-1,3-Dichloropropene	ND		ug/kg	0.72	0.23	1
1,1-Dichloropropene	ND		ug/kg	0.72	0.23	1
Bromoform	ND		ug/kg	5.7	0.35	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.72	0.24	1
Benzene	ND		ug/kg	0.72	0.24	1
Toluene	ND		ug/kg	1.4	0.78	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.7	1.3	1
Vinyl chloride	ND		ug/kg	1.4	0.48	1
Chloroethane	ND		ug/kg	2.9	0.65	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.20	1
Trichloroethene	ND		ug/kg	0.72	0.20	1

Project Name: BOMARC

Lab Number: L2316688

Project Number: SHD2201

Report Date: 04/13/23

SAMPLE RESULTS

Lab ID: L2316688-01

Date Collected: 03/30/23 09:50

Client ID: S-16A (0-6")

Date Received: 03/30/23

Sample Location: WEST HAMPTON BEACH, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	2.9	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	2.9	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	2.9	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.9	0.29	1
p/m-Xylene	ND		ug/kg	2.9	0.80	1
o-Xylene	ND		ug/kg	1.4	0.42	1
Xylenes, Total	ND		ug/kg	1.4	0.42	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.25	1
Dibromomethane	ND		ug/kg	2.9	0.34	1
Styrene	ND		ug/kg	1.4	0.28	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	79		ug/kg	14	6.9	1
Carbon disulfide	ND		ug/kg	14	6.5	1
2-Butanone	3.2	J	ug/kg	14	3.2	1
Vinyl acetate	ND		ug/kg	14	3.1	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
1,2,3-Trichloropropane	ND		ug/kg	2.9	0.18	1
2-Hexanone	ND		ug/kg	14	1.7	1
Bromochloromethane	ND		ug/kg	2.9	0.29	1
2,2-Dichloropropane	ND		ug/kg	2.9	0.29	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.40	1
1,3-Dichloropropane	ND		ug/kg	2.9	0.24	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.72	0.19	1
Bromobenzene	ND		ug/kg	2.9	0.21	1
n-Butylbenzene	ND		ug/kg	1.4	0.24	1
sec-Butylbenzene	ND		ug/kg	1.4	0.21	1
tert-Butylbenzene	ND		ug/kg	2.9	0.17	1
o-Chlorotoluene	ND		ug/kg	2.9	0.27	1
p-Chlorotoluene	ND		ug/kg	2.9	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.3	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.24	1
Isopropylbenzene	ND		ug/kg	1.4	0.16	1
p-Isopropyltoluene	0.26	J	ug/kg	1.4	0.16	1
Naphthalene	ND		ug/kg	5.7	0.93	1
Acrylonitrile	ND		ug/kg	5.7	1.6	1
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.9	0.46	1

Project Name: BOMARC

Lab Number: L2316688

Project Number: SHD2201

Report Date: 04/13/23

SAMPLE RESULTS

Lab ID: L2316688-01

Date Collected: 03/30/23 09:50

Client ID: S-16A (0-6")

Date Received: 03/30/23

Sample Location: WEST HAMPTON BEACH, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/kg	2.9	0.39	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.9	0.28	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.9	0.48	1
Acrolein	ND		ug/kg	36	8.1	1
Freon-113	ND		ug/kg	5.7	0.99	1
p-Diethylbenzene	ND		ug/kg	2.9	0.25	1
p-Ethyltoluene	ND		ug/kg	2.9	0.55	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.9	0.27	1
Tetrahydrofuran	ND		ug/kg	5.7	2.3	1
Ethyl ether	ND		ug/kg	2.9	0.49	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.9	0.18	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.9	0.25	1
2-Nitropropane	ND		ug/kg	7.2	0.28	1
Allyl chloride	ND		ug/kg	7.2	0.14	1
Chlorodifluoromethane	ND		ug/kg	7.2	0.72	1
cis-Decahydronaphthalene	ND		ug/kg	7.2	0.14	1
Decane	ND		ug/kg	7.2	0.61	1
Hexachloroethane	ND		ug/kg	7.2	0.08	1
n-Hexane	ND		ug/kg	7.2	0.25	1
R-Limonene	2.6	J	ug/kg	7.2	0.08	1
Methyl Isothiocyanate	ND		ug/kg	7.2	0.07	1
Methyl methacrylate	ND		ug/kg	7.2	0.08	1
Butyl acetate	ND		ug/kg	7.2	0.10	1
Nitrobenzene	ND		ug/kg	7.2	0.64	1
Nonane	ND		ug/kg	7.2	0.11	1
n-Octane	ND		ug/kg	7.2	0.20	1
trans-Decahydronaphthalene	ND		ug/kg	7.2	0.08	1
n-Undecane	2.1	J	ug/kg	7.2	0.34	1
Iodomethane	ND		ug/kg	14	4.8	1
Ethyl methacrylate	ND		ug/kg	14	2.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	101		70-130

Project Name: BOMARC
Project Number: SHD2201

Lab Number: L2316688
Report Date: 04/13/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 04/04/23 14:09
 Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1762908-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
2-Chloroethylvinyl ether	ND		ug/kg	20	1.6
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14

Project Name: BOMARC
Project Number: SHD2201

Lab Number: L2316688
Report Date: 04/13/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 04/04/23 14:09
 Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1762908-5					
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0

Project Name: BOMARC
Project Number: SHD2201

Lab Number: L2316688
Report Date: 04/13/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 04/04/23 14:09
 Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1762908-5					
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Acrolein	ND		ug/kg	25	5.6
Freon-113	ND		ug/kg	4.0	0.69
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Tetrahydrofuran	ND		ug/kg	4.0	1.6
Ethyl ether	ND		ug/kg	2.0	0.34
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	0.13
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	0.18
2-Nitropropane	ND		ug/kg	5.0	0.19
Allyl chloride	ND		ug/kg	5.0	0.09
Chlorodifluoromethane	ND		ug/kg	5.0	0.50
cis-Decahydronaphthalene	ND		ug/kg	5.0	0.10
Decane	ND		ug/kg	5.0	0.42
Hexachloroethane	ND		ug/kg	5.0	0.05
n-Hexane	ND		ug/kg	5.0	0.17
R-Limonene	ND		ug/kg	5.0	0.06
Methyl Isothiocyanate	ND		ug/kg	5.0	0.05
Methyl methacrylate	ND		ug/kg	5.0	0.05

Project Name: BOMARC
Project Number: SHD2201

Lab Number: L2316688
Report Date: 04/13/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/04/23 14:09
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1762908-5					
Butyl acetate	ND		ug/kg	5.0	0.07
Nitrobenzene	ND		ug/kg	5.0	0.45
Nonane	ND		ug/kg	5.0	0.08
n-Octane	ND		ug/kg	5.0	0.14
trans-Decahydronaphthalene	ND		ug/kg	5.0	0.06
n-Undecane	ND		ug/kg	5.0	0.24
Iodomethane	ND		ug/kg	10	3.4
Ethyl methacrylate	ND		ug/kg	10	1.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: BOMARC

Project Number: SHD2201

Lab Number: L2316688

Report Date: 04/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1762908-3 WG1762908-4								
Methylene chloride	97		97		70-130	0		30
1,1-Dichloroethane	106		106		70-130	0		30
Chloroform	107		105		70-130	2		30
Carbon tetrachloride	100		100		70-130	0		30
1,2-Dichloropropane	108		107		70-130	1		30
Dibromochloromethane	94		94		70-130	0		30
2-Chloroethylvinyl ether	54	Q	55	Q	70-130	2		30
1,1,2-Trichloroethane	98		97		70-130	1		30
Tetrachloroethene	101		100		70-130	1		30
Chlorobenzene	97		95		70-130	2		30
Trichlorofluoromethane	101		99		70-139	2		30
1,2-Dichloroethane	111		110		70-130	1		30
1,1,1-Trichloroethane	108		107		70-130	1		30
Bromodichloromethane	109		108		70-130	1		30
trans-1,3-Dichloropropene	99		98		70-130	1		30
cis-1,3-Dichloropropene	110		109		70-130	1		30
1,1-Dichloropropene	110		109		70-130	1		30
Bromoform	87		87		70-130	0		30
1,1,2,2-Tetrachloroethane	94		94		70-130	0		30
Benzene	107		106		70-130	1		30
Toluene	96		95		70-130	1		30
Ethylbenzene	98		96		70-130	2		30
Chloromethane	79		79		52-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BOMARC

Project Number: SHD2201

Lab Number: L2316688

Report Date: 04/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1762908-3 WG1762908-4								
Vinyl chloride	91		90		67-130	1		30
Chloroethane	96		94		50-151	2		30
1,1-Dichloroethene	102		101		65-135	1		30
trans-1,2-Dichloroethene	105		104		70-130	1		30
Trichloroethene	108		107		70-130	1		30
1,2-Dichlorobenzene	92		92		70-130	0		30
1,3-Dichlorobenzene	93		92		70-130	1		30
1,4-Dichlorobenzene	93		91		70-130	2		30
Methyl tert butyl ether	111		111		66-130	0		30
p/m-Xylene	98		96		70-130	2		30
o-Xylene	102		101		70-130	1		30
cis-1,2-Dichloroethene	105		104		70-130	1		30
Dibromomethane	110		108		70-130	2		30
Styrene	105		103		70-130	2		30
Dichlorodifluoromethane	91		90		30-146	1		30
Acetone	147	Q	148	Q	54-140	1		30
Carbon disulfide	152	Q	150	Q	59-130	1		30
2-Butanone	127		125		70-130	2		30
Vinyl acetate	121		122		70-130	1		30
4-Methyl-2-pentanone	100		98		70-130	2		30
1,2,3-Trichloropropane	95		95		68-130	0		30
2-Hexanone	108		107		70-130	1		30
Bromochloromethane	107		106		70-130	1		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: BOMARC

Project Number: SHD2201

Lab Number: L2316688

Report Date: 04/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1762908-3 WG1762908-4								
2,2-Dichloropropane	108		105		70-130	3		30
1,2-Dibromoethane	98		98		70-130	0		30
1,3-Dichloropropane	98		98		69-130	0		30
1,1,1,2-Tetrachloroethane	95		94		70-130	1		30
Bromobenzene	92		91		70-130	1		30
n-Butylbenzene	99		97		70-130	2		30
sec-Butylbenzene	96		95		70-130	1		30
tert-Butylbenzene	94		93		70-130	1		30
o-Chlorotoluene	95		94		70-130	1		30
p-Chlorotoluene	95		94		70-130	1		30
1,2-Dibromo-3-chloropropane	88		88		68-130	0		30
Hexachlorobutadiene	88		87		67-130	1		30
Isopropylbenzene	95		94		70-130	1		30
p-Isopropyltoluene	96		94		70-130	2		30
Naphthalene	100		99		70-130	1		30
Acrylonitrile	108		108		70-130	0		30
n-Propylbenzene	98		96		70-130	2		30
1,2,3-Trichlorobenzene	97		96		70-130	1		30
1,2,4-Trichlorobenzene	95		93		70-130	2		30
1,3,5-Trimethylbenzene	96		94		70-130	2		30
1,2,4-Trimethylbenzene	95		94		70-130	1		30
Acrolein	96		94		70-130	2		30
Freon-113	102		101		50-139	1		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: BOMARC

Project Number: SHD2201

Lab Number: L2316688

Report Date: 04/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1762908-3 WG1762908-4								
p-Diethylbenzene	98		96		70-130	2		30
p-Ethyltoluene	98		96		70-130	2		30
1,2,4,5-Tetramethylbenzene	100		98		70-130	2		30
Tetrahydrofuran	106		105		66-130	1		30
Ethyl ether	108		104		67-130	4		30
Ethyl-Tert-Butyl-Ether	109		108		70-130	1		30
Tertiary-Amyl Methyl Ether	110		109		70-130	1		30
2-Nitropropane	84		83		70-130	1		30
Allyl chloride	94		92		70-130	2		30
Chlorodifluoromethane	120		119		70-130	1		30
cis-Decahydronaphthalene	88		87		70-130	1		30
Decane	94		92		70-130	2		30
Hexachloroethane	74		73		70-130	1		30
n-Hexane	110		108		70-130	2		30
R-Limonene	103		101		70-130	2		30
Methyl Isothiocyanate	68	Q	69	Q	70-130	1		30
Methyl methacrylate	102		101		70-130	1		30
Butyl acetate	96		96		70-130	0		30
Nitrobenzene	56	Q	59	Q	70-130	5		30
Nonane	94		93		70-130	1		30
n-Octane	90		88		70-130	2		30
trans-Decahydronaphthalene	90		89		70-130	1		30
n-Undecane	103		98		70-130	5		30

Lab Control Sample Analysis Batch Quality Control

Project Name: BOMARC
Project Number: SHD2201

Lab Number: L2316688
Report Date: 04/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1762908-3 WG1762908-4								
Iodomethane	87		85		70-130	2		30
Ethyl methacrylate	99		100		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		104		70-130
Toluene-d8	95		95		70-130
4-Bromofluorobenzene	101		101		70-130
Dibromofluoromethane	100		100		70-130

SEMIVOLATILES

Project Name: BOMARC

Lab Number: L2316688

Project Number: SHD2201

Report Date: 04/13/23

SAMPLE RESULTS

Lab ID: L2316688-01
 Client ID: S-16A (0-6")
 Sample Location: WEST HAMPTON BEACH, NY

Date Collected: 03/30/23 09:50
 Date Received: 03/30/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 04/05/23 06:38
 Analyst: LJG
 Percent Solids: 88%

Extraction Method: EPA 3546
 Extraction Date: 04/04/23 07:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	34	J	ug/kg	150	20.	1
Fluoranthene	360		ug/kg	110	22.	1
Benzo(a)anthracene	120		ug/kg	110	21.	1
Benzo(a)pyrene	140	J	ug/kg	150	46.	1
Benzo(b)fluoranthene	200		ug/kg	110	32.	1
Benzo(k)fluoranthene	68	J	ug/kg	110	30.	1
Chrysene	150		ug/kg	110	20.	1
Anthracene	40	J	ug/kg	110	37.	1
Benzo(ghi)perylene	83	J	ug/kg	150	22.	1
Fluorene	30	J	ug/kg	190	18.	1
Phenanthrene	320		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	25	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	98	J	ug/kg	150	26.	1
Pyrene	280		ug/kg	110	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	62		30-120
4-Terphenyl-d14	54		18-120

Project Name: BOMARC
Project Number: SHD2201

Lab Number: L2316688
Report Date: 04/13/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/05/23 00:44
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 04/04/23 07:59

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1762412-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	98	19.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	76		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: BOMARC

Project Number: SHD2201

Lab Number: L2316688

Report Date: 04/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1762412-2 WG1762412-3								
Acenaphthene	70		68		31-137	3		50
Fluoranthene	77		75		40-140	3		50
Benzo(a)anthracene	75		72		40-140	4		50
Benzo(a)pyrene	89		84		40-140	6		50
Benzo(b)fluoranthene	80		75		40-140	6		50
Benzo(k)fluoranthene	82		80		40-140	2		50
Chrysene	74		70		40-140	6		50
Anthracene	76		74		40-140	3		50
Benzo(ghi)perylene	76		72		40-140	5		50
Fluorene	75		72		40-140	4		50
Phenanthrene	74		72		40-140	3		50
Dibenzo(a,h)anthracene	78		76		40-140	3		50
Indeno(1,2,3-cd)pyrene	79		75		40-140	5		50
Pyrene	75		74		35-142	1		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	75		73		25-120
Phenol-d6	75		72		10-120
Nitrobenzene-d5	66		63		23-120
2-Fluorobiphenyl	76		74		30-120
2,4,6-Tribromophenol	89		87		10-136
4-Terphenyl-d14	81		78		18-120

PCBS

Project Name: BOMARC**Lab Number:** L2316688**Project Number:** SHD2201**Report Date:** 04/13/23**SAMPLE RESULTS**

Lab ID: L2316688-01
 Client ID: S-16A (0-6")
 Sample Location: WEST HAMPTON BEACH, NY

Date Collected: 03/30/23 09:50
 Date Received: 03/30/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/06/23 22:06
 Analyst: JM
 Percent Solids: 88%

Extraction Method: EPA 3546
 Extraction Date: 04/04/23 12:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/06/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/06/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.8	3.36	1	A
Aroclor 1221	ND		ug/kg	37.8	3.79	1	A
Aroclor 1232	ND		ug/kg	37.8	8.02	1	A
Aroclor 1242	ND		ug/kg	37.8	5.10	1	A
Aroclor 1248	ND		ug/kg	37.8	5.67	1	A
Aroclor 1254	525		ug/kg	37.8	4.14	1	B
Aroclor 1260	ND		ug/kg	37.8	6.99	1	A
Aroclor 1262	ND		ug/kg	37.8	4.80	1	A
Aroclor 1268	ND		ug/kg	37.8	3.92	1	A
PCBs, Total	525		ug/kg	37.8	3.36	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: BOMARC**Lab Number:** L2316688**Project Number:** SHD2201**Report Date:** 04/13/23**SAMPLE RESULTS**

Lab ID: L2316688-02
 Client ID: S-16A (6-12")
 Sample Location: WEST HAMPTON BEACH, NY

Date Collected: 03/30/23 10:05
 Date Received: 03/30/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 04/11/23 23:02
 Analyst: JM
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 04/11/23 08:09
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/11/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/11/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.7	3.08	1	A
Aroclor 1221	ND		ug/kg	34.7	3.48	1	A
Aroclor 1232	ND		ug/kg	34.7	7.36	1	A
Aroclor 1242	ND		ug/kg	34.7	4.68	1	A
Aroclor 1248	ND		ug/kg	34.7	5.20	1	A
Aroclor 1254	512		ug/kg	34.7	3.80	1	B
Aroclor 1260	ND		ug/kg	34.7	6.41	1	A
Aroclor 1262	ND		ug/kg	34.7	4.41	1	A
Aroclor 1268	ND		ug/kg	34.7	3.60	1	A
PCBs, Total	512		ug/kg	34.7	3.08	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: BOMARC
Project Number: SHD2201

Lab Number: L2316688
Report Date: 04/13/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 04/06/23 22:30
 Analyst: JM

Extraction Method: EPA 3546
 Extraction Date: 04/04/23 12:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/06/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/06/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1762579-1						
Aroclor 1016	ND		ug/kg	31.9	2.84	A
Aroclor 1221	ND		ug/kg	31.9	3.20	A
Aroclor 1232	ND		ug/kg	31.9	6.77	A
Aroclor 1242	ND		ug/kg	31.9	4.31	A
Aroclor 1248	ND		ug/kg	31.9	4.79	A
Aroclor 1254	ND		ug/kg	31.9	3.50	A
Aroclor 1260	ND		ug/kg	31.9	5.90	A
Aroclor 1262	ND		ug/kg	31.9	4.06	A
Aroclor 1268	ND		ug/kg	31.9	3.31	A
PCBs, Total	ND		ug/kg	31.9	2.84	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	101		30-150	A
2,4,5,6-Tetrachloro-m-xylene	97		30-150	B
Decachlorobiphenyl	102		30-150	B

Project Name: BOMARC
Project Number: SHD2201

Lab Number: L2316688
Report Date: 04/13/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 04/11/23 12:06
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 04/10/23 19:29
Cleanup Method: EPA 3665A
Cleanup Date: 04/11/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/11/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02 Batch: WG1764923-1						
Aroclor 1016	ND		ug/kg	31.5	2.80	A
Aroclor 1221	ND		ug/kg	31.5	3.16	A
Aroclor 1232	ND		ug/kg	31.5	6.68	A
Aroclor 1242	ND		ug/kg	31.5	4.25	A
Aroclor 1248	ND		ug/kg	31.5	4.72	A
Aroclor 1254	ND		ug/kg	31.5	3.45	A
Aroclor 1260	ND		ug/kg	31.5	5.82	A
Aroclor 1262	ND		ug/kg	31.5	4.00	A
Aroclor 1268	ND		ug/kg	31.5	3.26	A
PCBs, Total	ND		ug/kg	31.5	2.80	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	76		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BOMARC

Project Number: SHD2201

Lab Number: L2316688

Report Date: 04/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1762579-2 WG1762579-3									
Aroclor 1016	98		89		40-140	10		50	A
Aroclor 1260	94		86		40-140	9		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		84		30-150	A
Decachlorobiphenyl	102		95		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		86		30-150	B
Decachlorobiphenyl	102		95		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BOMARC

Project Number: SHD2201

Lab Number: L2316688

Report Date: 04/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02 Batch: WG1764923-2 WG1764923-3									
Aroclor 1016	75		77		40-140	3		50	A
Aroclor 1260	73		74		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		86		30-150	A
Decachlorobiphenyl	85		87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		89		30-150	B
Decachlorobiphenyl	78		83		30-150	B

METALS

Project Name: BOMARC**Lab Number:** L2316688**Project Number:** SHD2201**Report Date:** 04/13/23**SAMPLE RESULTS**

Lab ID: L2316688-01

Date Collected: 03/30/23 09:50

Client ID: S-16A (0-6")

Date Received: 03/30/23

Sample Location: WEST HAMPTON BEACH, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.73		mg/kg	0.435	0.090	1	03/31/23 23:35	04/03/23 19:07	EPA 3050B	1,6010D	GCL
Barium, Total	13.4		mg/kg	0.435	0.076	1	03/31/23 23:35	04/03/23 19:07	EPA 3050B	1,6010D	GCL
Beryllium, Total	0.105	J	mg/kg	0.217	0.014	1	03/31/23 23:35	04/03/23 19:07	EPA 3050B	1,6010D	GCL
Cadmium, Total	0.112	J	mg/kg	0.435	0.043	1	03/31/23 23:35	04/03/23 19:07	EPA 3050B	1,6010D	GCL
Chromium, Total	3.89		mg/kg	0.435	0.042	1	03/31/23 23:35	04/03/23 19:07	EPA 3050B	1,6010D	GCL
Copper, Total	5.47		mg/kg	0.435	0.112	1	03/31/23 23:35	04/03/23 19:07	EPA 3050B	1,6010D	GCL
Lead, Total	36.4		mg/kg	2.17	0.116	1	03/31/23 23:35	04/03/23 19:07	EPA 3050B	1,6010D	GCL
Mercury, Total	ND		mg/kg	0.078	0.051	1	04/01/23 00:20	04/03/23 10:26	EPA 7471B	1,7471B	ZNK
Nickel, Total	2.22		mg/kg	1.09	0.105	1	03/31/23 23:35	04/03/23 19:07	EPA 3050B	1,6010D	GCL
Selenium, Total	ND		mg/kg	0.870	0.112	1	03/31/23 23:35	04/03/23 19:07	EPA 3050B	1,6010D	GCL
Silver, Total	ND		mg/kg	0.217	0.123	1	03/31/23 23:35	04/03/23 19:07	EPA 3050B	1,6010D	GCL



Project Name: BOMARC

Lab Number: L2316688

Project Number: SHD2201

Report Date: 04/13/23

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 Batch: WG1761421-1									
Arsenic, Total	ND	mg/kg	0.400	0.083	1	03/31/23 23:35	04/03/23 13:23	1,6010D	DMB
Barium, Total	ND	mg/kg	0.400	0.070	1	03/31/23 23:35	04/03/23 17:03	1,6010D	GCL
Beryllium, Total	ND	mg/kg	0.200	0.013	1	03/31/23 23:35	04/03/23 13:23	1,6010D	DMB
Cadmium, Total	ND	mg/kg	0.400	0.039	1	03/31/23 23:35	04/03/23 13:23	1,6010D	DMB
Chromium, Total	ND	mg/kg	0.400	0.038	1	03/31/23 23:35	04/03/23 13:23	1,6010D	DMB
Copper, Total	ND	mg/kg	0.400	0.103	1	03/31/23 23:35	04/03/23 13:23	1,6010D	DMB
Lead, Total	ND	mg/kg	2.00	0.107	1	03/31/23 23:35	04/03/23 13:23	1,6010D	DMB
Nickel, Total	ND	mg/kg	1.00	0.097	1	03/31/23 23:35	04/03/23 13:23	1,6010D	DMB
Selenium, Total	ND	mg/kg	0.800	0.103	1	03/31/23 23:35	04/03/23 13:23	1,6010D	DMB
Silver, Total	ND	mg/kg	0.200	0.113	1	03/31/23 23:35	04/03/23 13:23	1,6010D	DMB

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1761423-1									
Mercury, Total	ND	mg/kg	0.083	0.054	1	04/01/23 00:20	04/03/23 09:43	1,7471B	ZNK

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BOMARC

Project Number: SHD2201

Lab Number: L2316688

Report Date: 04/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1761421-2 SRM Lot Number: D116-540								
Arsenic, Total	104		-		82-119	-		
Barium, Total	88		-		82-118	-		
Beryllium, Total	99		-		82-118	-		
Cadmium, Total	99		-		82-118	-		
Chromium, Total	96		-		81-118	-		
Copper, Total	96		-		83-117	-		
Lead, Total	98		-		83-117	-		
Nickel, Total	98		-		82-118	-		
Selenium, Total	104		-		78-122	-		
Silver, Total	102		-		79-121	-		
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1761423-2 SRM Lot Number: D116-540								
Mercury, Total	102		-		58-142	-		

Matrix Spike Analysis

Batch Quality Control

Project Name: BOMARC
Project Number: SHD2201

Lab Number: L2316688
Report Date: 04/13/23

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 QC Batch ID: WG1761421-3 WG1761421-4 QC Sample: L2316234-04 Client ID: MS Sample												
Arsenic, Total	20.8	13.6	30.4	71	Q	30.3	68	Q	75-125	0		20
Barium, Total	50.6	226	234	81		246	84		75-125	5		20
Beryllium, Total	0.629	5.66	5.40	84		5.68	87		75-125	5		20
Cadmium, Total	0.191J	6	5.30	88		5.48	89		75-125	3		20
Chromium, Total	13.0	22.6	31.1	80		33.9	90		75-125	9		20
Copper, Total	21.5	28.3	43.8	79		48.0	91		75-125	9		20
Lead, Total	24.0	60	68.2	74	Q	68.8	73	Q	75-125	1		20
Nickel, Total	28.0	56.6	72.5	79		77.1	84		75-125	6		20
Selenium, Total	ND	13.6	12.5	92		12.7	91		75-125	2		20
Silver, Total	ND	5.66	5.22	92		5.40	93		75-125	3		20

Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1761421-7 WG1761421-8 QC Sample: L2316685-01 Client ID: MS Sample												
Arsenic, Total	0.510J	14.6	15.2	104		16.1	106		75-125	6		20
Barium, Total	19.9	242	233	88		266	97		75-125	13		20
Beryllium, Total	0.604	6.06	6.27	93		7.19	104		75-125	14		20
Cadmium, Total	1.21	6.43	6.78	87		7.57	95		75-125	11		20
Chromium, Total	1.08	24.2	23.2	91		26.8	101		75-125	14		20
Copper, Total	14.2	30.3	42.1	92		46.8	103		75-125	11		20
Lead, Total	76.1	64.3	136	93		138	92		75-125	1		20
Nickel, Total	3.85	60.6	55.7	86		63.9	95		75-125	14		20
Selenium, Total	ND	14.6	15.6	107		16.6	109		75-125	6		20
Silver, Total	ND	6.06	5.62	93		6.49	102		75-125	14		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BOMARC
Project Number: SHD2201

Lab Number: L2316688
Report Date: 04/13/23

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 QC Batch ID: WG1761423-3 QC Sample: L2315970-01 Client ID: MS Sample									
Mercury, Total	0.693	2.41	2.80	87	-	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BOMARC

Project Number: SHD2201

Lab Number: L2316688

Report Date: 04/13/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1761423-4 QC Sample: L2315970-01 Client ID: DUP Sample						
Mercury, Total	0.693	0.849	mg/kg	20		20

INORGANICS & MISCELLANEOUS

Project Name: BOMARC**Project Number:** SHD2201**Lab Number:** L2316688**Report Date:** 04/13/23**SAMPLE RESULTS****Lab ID:** L2316688-01**Client ID:** S-16A (0-6")**Sample Location:** WEST HAMPTON BEACH, NY**Date Collected:** 03/30/23 09:50**Date Received:** 03/30/23**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.5		%	0.100	NA	1	-	04/01/23 12:24	121,2540G	ROI



Project Name: BOMARC**Project Number:** SHD2201**Lab Number:** L2316688**Report Date:** 04/13/23**SAMPLE RESULTS****Lab ID:** L2316688-02**Client ID:** S-16A (6-12")**Sample Location:** WEST HAMPTON BEACH, NY**Date Collected:** 03/30/23 10:05**Date Received:** 03/30/23**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.3		%	0.100	NA	1	-	04/08/23 10:09	121,2540G	ROI



Lab Duplicate Analysis

Batch Quality Control

Project Name: BOMARC
Project Number: SHD2201

Lab Number: L2316688
Report Date: 04/13/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1761536-1 QC Sample: L2316685-01 Client ID: DUP Sample						
Solids, Total	62.1	63.1	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1764270-1 QC Sample: L2318121-01 Client ID: DUP Sample						
Solids, Total	68.5	70.7	%	3		20

Project Name: BOMARC
Project Number: SHD2201

Serial_No:04132309:55
Lab Number: L2316688
Report Date: 04/13/23

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2316688-01A	Vial MeOH preserved	A	NA		4.0	Y	Absent		NYSUFFOLK-8260HLW(14)
L2316688-01B	Vial water preserved	A	NA		4.0	Y	Absent	31-MAR-23 06:39	NYSUFFOLK-8260HLW(14)
L2316688-01C	Vial water preserved	A	NA		4.0	Y	Absent	31-MAR-23 06:39	NYSUFFOLK-8260HLW(14)
L2316688-01D	Plastic 120ml unpreserved	A	NA		4.0	Y	Absent		TS(7)
L2316688-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		BE-Ti(180),BA-Ti(180),AS-Ti(180),AG-Ti(180),CR-Ti(180),NI-Ti(180),SE-Ti(180),PB-Ti(180),CU-Ti(180),HG-T(28),CD-Ti(180)
L2316688-01F	Glass 250ml/8oz unpreserved	A	NA		4.0	Y	Absent		NYSUFFOLK-8270(14),NYTCL-8082(365)
L2316688-02A	Vial MeOH preserved	A	NA		4.0	Y	Absent		HOLD-8260HLW(14)
L2316688-02B	Vial water preserved	A	NA		4.0	Y	Absent	31-MAR-23 06:39	HOLD-8260HLW(14)
L2316688-02C	Vial water preserved	A	NA		4.0	Y	Absent	31-MAR-23 06:39	HOLD-8260HLW(14)
L2316688-02D	Plastic 120ml unpreserved	A	NA		4.0	Y	Absent		TS(7)
L2316688-02E	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		HOLD-METAL(180)
L2316688-02F	Glass 250ml/8oz unpreserved	A	NA		4.0	Y	Absent		HOLD-8270(14),NYTCL-8082(365)

Project Name: BOMARC
Project Number: SHD2201

Lab Number: L2316688
Report Date: 04/13/23

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: BOMARC
Project Number: SHD2201

Lab Number: L2316688
Report Date: 04/13/23

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.

Chlordane: 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.)

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'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol 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

Report Format: DU Report with 'J' Qualifiers



Project Name: BOMARC
Project Number: SHD2201

Lab Number: L2316688
Report Date: 04/13/23

Data Qualifiers

Identified Compounds (TICs).

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers



Project Name: BOMARC
Project Number: SHD2201

Lab Number: L2316688
Report Date: 04/13/23

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, 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, SM9222D.**

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, EPA 537.1.

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.

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