LIMITED ENVIRONMENTAL SITE CHARACTERIZATION

FOR

MARINE DRIVE APARTMENTS – PARKING LOT
90 ERIE STREET
CITY OF BUFFALO, NEW YORK

Prepared by:

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EXECUTIVE SUMMARY

At the request of Marine Drive JV LLC, C&S Engineers, Inc. (C&S) has prepared this Limited Environmental Site Characterization (Investigation) Report of the Marine Drive Apartments – Parking Lot located at 90 Erie Street in the City of Buffalo, New York (Site). The scope of services for the Investigation was based on our proposal dated March 13, 2023. The location of the Site is shown on **Figure 1**.

A total of 12 subsurface soil samples were collected from 12 soil borings spread across the Site. The soil samples were analyzed for VOCs, SVOCs, PCBs, and metals. A total of 9 of the 12 samples contained compounds detected at concentrations exceeding Restricted Residential Use SCOs for SVOCs and metals.

A total of two groundwater samples were collected from two temporary groundwater monitoring wells, located at the northern and southern ends of the Site. Both groundwater samples contained detection of compounds exceeding TOGS Standards for SVOCs and metals.

Remediation of impacted media is recommended at this Site. It is of C&S' opinion that the documentation described in this report is sufficient for entry of the Site into the Brownfield Cleanup Program (BCP). An application is necessary for acceptance into the program utilizing information generated through this report.

1. INTRODUCTION

At the request of Marine Drive JV LLC, C&S Engineers, Inc. (C&S) has prepared this Limited Environmental Site Characterization (Investigation) Report of the Marine Drive Apartments – Parking Lot located at 90 Erie Street in the City of Buffalo, New York (Site). The scope of services for this Investigation was based on our March 13, 2023 proposal. The location of the Site is shown on **Figure 1**. The investigation was performed generally consistent with American Society of Testing and Materials (ASTM) E 1903-19 Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process, unless noted otherwise in this report.

As indicated in the Standard, there are a wide variety of reasons to perform a Phase II Investigation:

- Assess whether there has been a release of a hazardous substance applicable to CERCLA for purposes including landowner liability protections (innocent landowner, bonafide prospective purchaser, or contiguous property owner);
- Provide information relevant to identifying, defining, or implementing landowner continuing obligations;
- Develop threshold knowledge of the presence of substances within the scope of CERCLA to qualify as a Brownfield;
- Provide information relative to identifying, defining, and evaluating conditions that could lead to environmental or human health hazards;
- Provide information relative to evaluating business environmental risk; and
- Provide information to support disclosure of liabilities for financial statements and reporting.

The scope of services for this Investigation included the following tasks:

- Review of historical environmental reports / documentation;
- Subsurface investigation of the geologic and hydrogeologic conditions of the Site;
- Collection and laboratory analytical testing of soil and groundwater samples;
- Evaluation of the findings of the investigation and analytical testing; and
- Discussion of the potential impact of the observed conditions on the Site and recommendation of further actions.

This Investigation was intended to provide further information on the Site's environmental condition to render a professional opinion on the suspected presence or absence of petroleum or chemical impacts.

1.1. Limitations and Exceptions

C&S has performed this Investigation consistent with the contract scope of services, using reasonable efforts to identify areas of potential liability associated with environmental concerns at the Site. As detailed in our scope of services, the purpose of this investigation was to characterize the subsurface soil and groundwater conditions of the Site.

The conclusions in this report were based solely on the review of historical documentation, geologic / hydrogeologic data collected on the Site, and laboratory analytical results. C&S has made no independent investigation of the accuracy of any secondary sources and has assumed them to be accurate and complete. C&S does not warrant the accuracy of completeness of the information provided by the secondary sources. C&S does not warrant that contamination that may exist on the site has been discovered, that the site is suitable for any particular purpose, or that the site is clean or free of liability.

No environmental site investigation can wholly eliminate uncertainty regarding the potential nature and extent of the identified environmental concern(s) in connection with a property. Even when an Investigation is executed competently and consistent with the ASTM Standard, it must be recognized that certain conditions present especially difficult target analyte detection problems. Such conditions may include, but are not limited to, complex geological settings, unusual or generally poorly understood behavior and fate characteristics of certain substances, complex, discontinuous, random, dynamic, or spotty distributions of target analytes, physical impediments to investigation imposed by the location of utilities and other man-made objects, and the inherent limitations of assessment technologies.

Similar to a Phase I ESA, there is a point at which the cost of the information obtained or the time required to gather it outweighs the usefulness of the information and, in the context of private transactions and contractual responsibilities, may become a material detriment to the orderly completion of business. If the presence of target analytes is confirmed on a property, the extent of further assessment is a function of the degree of confidence required and the degree of uncertainty acceptable, in relation to the objectives of the assessment.

2. SITE DESCRIPTION

The following sections include a description of the location, site characteristics, and land use in the vicinity of the Site.

2.1. Location and Legal Description

The Site is approximately 3.3 acres, identified as tax parcel 111.17-15-1, and is reportedly owned by Buffalo Municipal Housing Authority (BMHA). The property is located at 90 Erie Street in the City of Buffalo, New York.

The Site includes a relatively flat asphalt surface parking lot, bounded by curbing and chain-link fencing on all sides. Within the parking lot area are 11 separate parking lot islands lined near the west side of the Site.

The parking lot area on the Site is associated with the Marine Drive Apartments Complex, located to the west of the Site. The complex includes seven 12-story structures with construction completing in 1950. Buildings previously located on the complex included residential, commercial, and industrial types.

The southern end of the Site is located approximately 250 feet northeast of the Buffalo River. The Buffalo River intersects with Lake Erie approximately 2,100 feet to the west of the Site. Groundwater at the Site is assumed to flow generally to the west-southwest towards the Buffalo River and Lake Erie.

The list below describes the properties / features / roads immediately surrounding the Site:

Direction	*Feature(s)*
North	Erie Street / Interstate 190
East	Interstate 190 / Commercial Slip
South	Marine Drive / Canalside
West	Marine Drive Apartment Complex

2.2. Contamination Concerns

C&S completed Pre-BCP Investigation of the Marine Drive Apartments in June 2022. This Investigation was intended to document near surface soil conditions across the Site (Marine Drive Apartments and parking lot parcels). The sampling program consisted of approximately 12 hand auger locations spread throughout the Marine Drive Apartment complex and advanced from ground surface to approximately one to two feet below ground surface (bgs) or refusal.

A total of 12 soil samples was collected from each hand auger boring for laboratory analysis based on visual and screening evidence of contamination. The soil samples were analyzed for USEPA Target Compound List (TCL) semi-volatile organic compounds (SVOCs) and Target Analyte List (TAL) metals.

Historic fill materials containing ash, coal, and/or brick were observed in nine of the 12 borings and extend throughout both parcels that comprise the Site. Samples collected from the borings identified contaminants of concern in the near surface soil/historic fill are SVOCs and heavy metals; including polycyclic aromatic compounds (PAHs), barium, cadmium, lead, manganese and mercury.

The project is a candidate for the Brownfield Cleanup Program (BCP); however, the project will be split into three phases with the first phase redeveloping the parking lot of Marine Drive Apartments. During the June 2022 Investigation, only a few samples were collected in the parking lot area. In order to enter this parcel into the BCP, additional analytical data will need to be collected.

The June 2022 Pre-BCP Investigation report is attached in **Appendix A**.

3. INVESTIGATION RATIONALE AND METHODS

3.1. Scope and Objectives

This Investigation was intended to document current subsurface conditions. The scope of services detailed in our previously referenced proposal included:

- A subsurface investigation, which included the advancement of soil borings and installation of temporary groundwater monitoring wells.
- The collection of subsurface soil and groundwater samples.
- The laboratory analysis of the subsurface soil and groundwater samples.

Samples were collected to characterize subsurface soil and groundwater conditions and determine potential contaminant impacts in each medium.

3.2. Site Investigation Methods

3.2.1. Utility Clearing

Prior to intrusive investigation activities, DigSafe NY was notified to mark out public utilities that are located at the Site. C&S endeavored to maintain a minimum setback of at least three feet from the identified utilities during our investigation.

3.2.2. Soil Boring Advancement

C&S observed the drilling of soil borings by TREC Environmental on April 10 & 11, 2023. A total of 12 soil borings were advanced (SB-01 to SB-12). Soil borings were advanced from the ground surface to 12-16 feet bgs. Drilling was conducted using a truck-mounted Geoprobe® drilling unit. Each boring location was continuously sampled using a two-inch by four-foot steel sampling tube fitted with a disposable acetate liner. Non-disposable sampling equipment was decontaminated between runs and between drill locations to avoid potential cross contamination of samples. The boring locations were dispersed evenly throughout the Site. **Figure 2** shows the boring locations.

Material description and physical evidence of petroleum contamination (staining or odors) of each direct push sample was recorded and organized into soil boring logs provided in **Appendix B**.

3.2.2.1. Field Screening

Each direct push sample was scanned in the field with a Mini-Rae 3000 photo-ionization detector ("PID") with a 10.6-volt lamp. The readings and corresponding

depths are recorded on the soil boring logs provided in **Appendix B**. Soil that was collected and set aside on ice for potential subsequent lab analysis was placed in air-tight plastic zip lock bags. Prior to collecting the sample, head space readings were conducted to represent the specific interval being sampled.

3.2.2.2. Soil Sample Collection

Generally, soil samples were selected for lab analysis based on the greatest level of observed physical evidence of impacts (e.g. staining, odor, PID readings) The samples were placed into glassware provided by the laboratory and put on ice in a cooler. A total of 12 soil samples were collected by C&S on April 10 & 11, 2023 and submitted for USEPA Target Compound List (TCL) volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and Target Analyte List (TAL) metals analysis. The samples were analyzed by Alpha Analytical of Westborough, Massachusetts.

3.2.3. Groundwater Monitoring Well Installation

C&S observed the drilling and installation of temporary groundwater monitoring wells by TREC Environmental on April 10, 2023. A total of two one-inch groundwater monitoring wells were installed (TMW -01 & TMW-02). **Figure 3** shows the well locations. Drilling was conducted by advancing an approximate 2.5-inch diameter macrocore with a truck-mounted Geoprobe® drilling unit. Non-disposable sampling equipment was decontaminated between runs and between drill locations to avoid potential cross contamination of samples.

3.2.3.1. Well Construction

The wells were installed within an approximate 2.5-inch diameter borehole, resulting from the completion of the boring by the drilling rig. The screened interval consisted of one-inch diameter 0.01 inch slotted PVC, positioned to straddle both the anticipated level of the water table and physical evidence of contamination, if applicable. Due to their temporary nature, the screened interval was not packed with sand and the upper extent of the wells were not sealed with bentonite. Groundwater was present at approximately 7.5 to 8.3 feet bgs. Wells were advanced to an approximate depth of 16 feet bgs.

3.2.3.2. Well Development and Sampling

Subsequent to installation, wells were developed by extracting water by low-flow pumping. Both wells were pumped dry prior to sampling in order to promote the infiltration of new groundwater through the well screen. Groundwater from the wells appeared to be semi-turbid in nature.

The samples were placed into glassware provided by the laboratory and put on ice in a cooler. A total of two groundwater samples were collected by C&S on April 11, 2023 and submitted for USEPA TCL VOCs, SVOCs, and TAL metals analysis. analysis. The samples were analyzed by Alpha Analytical of Westborough, Massachusetts.

4. RESULTS

4.1. Site Geology and Hydrogeology

4.1.1. Site Geology

Each soil sample retrieved from the Geoprobe® was observed for general soil type, estimated moisture content, and other pertinent features.

The area in which soil borings were advanced was located within an asphalt parking lot area. Because of this, all soil borings contained approximately 0.2 feet of asphalt material at the top of each boring. Beneath that asphalt layer was approximately two feet of compacted crushed stone, likely associated with the construction of a sub-base fill layer beneath the parking lot. A demarcation layer was observed in most of the borings at the bottom of that sub-base layer.

Another layer of Historic Fill Material (HFM) was observed beneath the demarcation layer. This fill material was present at depths down to eight to ten feet below ground surface (bgs). The HFM at the Site generally consisted of dark brown / black coarse sand, intermingled with crushed brick fragments and angular gravel.

Native soils were encountered around eight to ten feet bgs, down to the terminus of the soil borings. The material was generally a silty clay saturated material.

4.1.2. Site Hydrogeology

Groundwater elevations were not measured to create a groundwater gradient map. However, based on topography and the location of the Buffalo River and Lake Erie to the west-southwest, it is likely that groundwater flow is in that direction.

4.2. Field Screening Results

Physical observations of impacts were limited to HFM beginning at depths of two feet bgs, extending down to eight to ten feet bgs across the Site. Physical observations of petroleum / chemical impacts were not observed in the soil borings. Field screening observations are recorded in soil boring logs attached in **Appendix B**.

4.3. Laboratory Analytical Data

As discussed above, subsurface soil and groundwater samples were collected and analyzed. Summaries of the lab data as well as complete laboratory analytical reports are provided in **Appendix C**.

4.3.1. Soil Analytical Data

6 NYCRR Part 375-6, Remediation Program Soil Cleanup Objectives (SCO), effective December 14, 2006, includes SCOs that are based on protection of human health, groundwater, and ecological resources. The SCOs are based on the actual or intended site use.

The Unrestricted Use SCOs are considered to be representative of pre-release conditions unless an impact to ecological resources has been identified.

The Residential Use SCOs are intended for single family housing and requires the fewest restrictions on the use of the site. It allows only two restrictions: a groundwater use restriction and / or a prohibition against producing animal products for human consumption.

The Restricted Residential Use SCOs apply to land uses such as apartments, condominium, co-operative or other multi-family / common property control residential development. In addition to the restrictions for residential use, this use prohibits vegetable gardens, unless planted in gardens where the soil achieves the residential use soil cleanup objectives; and a prohibition of single-family housing. Restricted Residential use is the appropriate use category for day care or other child care facilities, elementary or secondary schools, or college or boarding school residential buildings. This use allows for active recreational uses, which includes recreational activities with a reasonable potential for soil contact.

The Commercial Use SCOs apply to businesses with the primary purpose of buying, selling or trading of merchandise or services.

The Industrial Use SCOs apply to businesses with the primary purpose of manufacturing goods for retail sale.

4.3.1.1. Subsurface Soil Analytical Data

Comparison of the subsurface soil analytical data indicates:

- A VOC compound, acetone, was detected at a concentration exceeding Unrestricted Use SCOs in one sample (SB-05-7-8 ft).
- SVOCs were detected at concentrations exceeding Unrestricted Use SCOs in five samples (SB-03, SB-06, SB-08, SB-09, & SB-11). In all five of the samples, detections of PAHs exceeded Industrial Use SCOs.
- PCBs were not detected at concentrations exceeding Unrestricted Use SCOs in any of the samples.
- Metals were detected at concentrations exceeding Unrestricted Use SCOs in all but one sample (SB-05-7-8 ft). The following is a list of the detection of compounds exceeding Restricted Residential Use SCOs:

- Barium was detected at concentrations exceeding Commercial Use SCOs in two samples (SB-08 & SB-09).
- Beryllium was detected at a concentration exceeding Commercial Use SCOs in one sample (SB-06).
- Lead was detected at concentrations exceeding Restricted Residential Use SCOs in three samples (SB-03, SB-08, & SB-12) and Commercial Use SCOs in one sample (SB-09).
- Manganese was detected at concentrations exceeding Restricted Residential Use SCOs in five samples (SB-02, SB-03, SB-06, SB-07, & SB-11).
- Mercury was detected at concentrations exceeding restricted Residential Use in two samples (SB-01 & SB-08).

The locations of the soil borings are shown on **Figure 2**.

A summary of the subsurface soil laboratory data is included in **Table 1** and laboratory analytical reports for the media sampled are provided in **Appendix C**.

4.3.1.2. Groundwater Analytical Data

Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1) presents NYSDEC Division of Water ambient water quality standards and guidance values and groundwater effluent limitations. The authority for these values is derived from Article 17 of the Environmental Conservation Law and 6 NYCRR Parts 700-706, Water Quality Regulations. The groundwater analytical data generated from this Investigation was compared to TOGS 1.1.1 Part I ambient standards and guidance values. Part II of the document describes and lists groundwater effluent limitations.

Comparison of the groundwater analytical data to the TOGs 1.1.1 Class GA Ambient Water Quality Standards indicates:

- VOCs were not detected in either of the samples.
- SVOCs were detected at concentrations exceeding TOGS Standards in both samples. Exceeded compounds include benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene.
- Metals were detected at concentrations exceeding TOGS Standards in both samples. Iron and sodium were detected at concentrations exceeding TOGS standards in TMW-01. Arsenic, copper, iron, lead, magnesium, manganese, and sodium were detected at concentrations exceeding TOGS standards in TMW-02.

The locations of the groundwater wells are shown on **Figure 3**.

A summary of the groundwater laboratory data is included in **Table 2** and laboratory analytical reports for the media sampled are provided in **Appendix C**.

5. DISCUSSION AND CONCLUSIONS

At the request of Marine Drive JV LLC, C&S Engineers, Inc. (C&S) has prepared this Limited Environmental Site Characterization (Investigation) Report of the Marine Drive Apartments – Parking Lot located at 90 Erie Street in the City of Buffalo, New York (Site). The location of the Site is shown on **Figure 1**.

Based on the results of the Pre-BCP Investigation conducted by C&S in June 2022, this Limited Site Characterization was designed to cover the entire Site and provide additional data in order to enter this Site into the BCP.

C&S' Investigation of the Site was conducted on April 10 & 11, 2023. The following summarizes and discusses the results of this Investigation.

5.1. Findings

A total of 12 subsurface soil samples were collected from 12 soil borings spread across the Site. The soil samples were analyzed for VOCs, SVOCs, PCBs, and metals. A total of 9 of the 12 samples contained compounds detected at concentrations exceeding Restricted Residential Use SCOs for SVOCs and metals.

A total of two groundwater samples were collected from two temporary groundwater monitoring wells, located at the northern and southern ends of the Site. Both groundwater samples contained detection of compounds exceeding TOGS Standards for SVOCs and metals.

5.2. Recommendations

Remediation of impacted media is recommended at this Site. It is of C&S' opinion that the documentation described in this report is sufficient for entry of the Site into the Brownfield Cleanup Program (BCP). An application is necessary for acceptance into the program utilizing information generated through this report.

Environmental Professional Statement and Qualifications

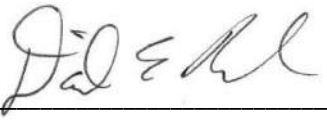
To the best of our professional knowledge and belief, C&S meets the definition of "environmental professional" as defined in §312.10 of 40 CFR 312.

We have the specific qualifications based on education, training, and experience to assess the nature, history, and setting of the Site. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Project Manager's Signature: 

Cody A. Martin

Project Environmental Scientist

Department Manager's Signature: 

Daniel E. Riker, P.G.

Department Manager – Environmental Services

FIGURES

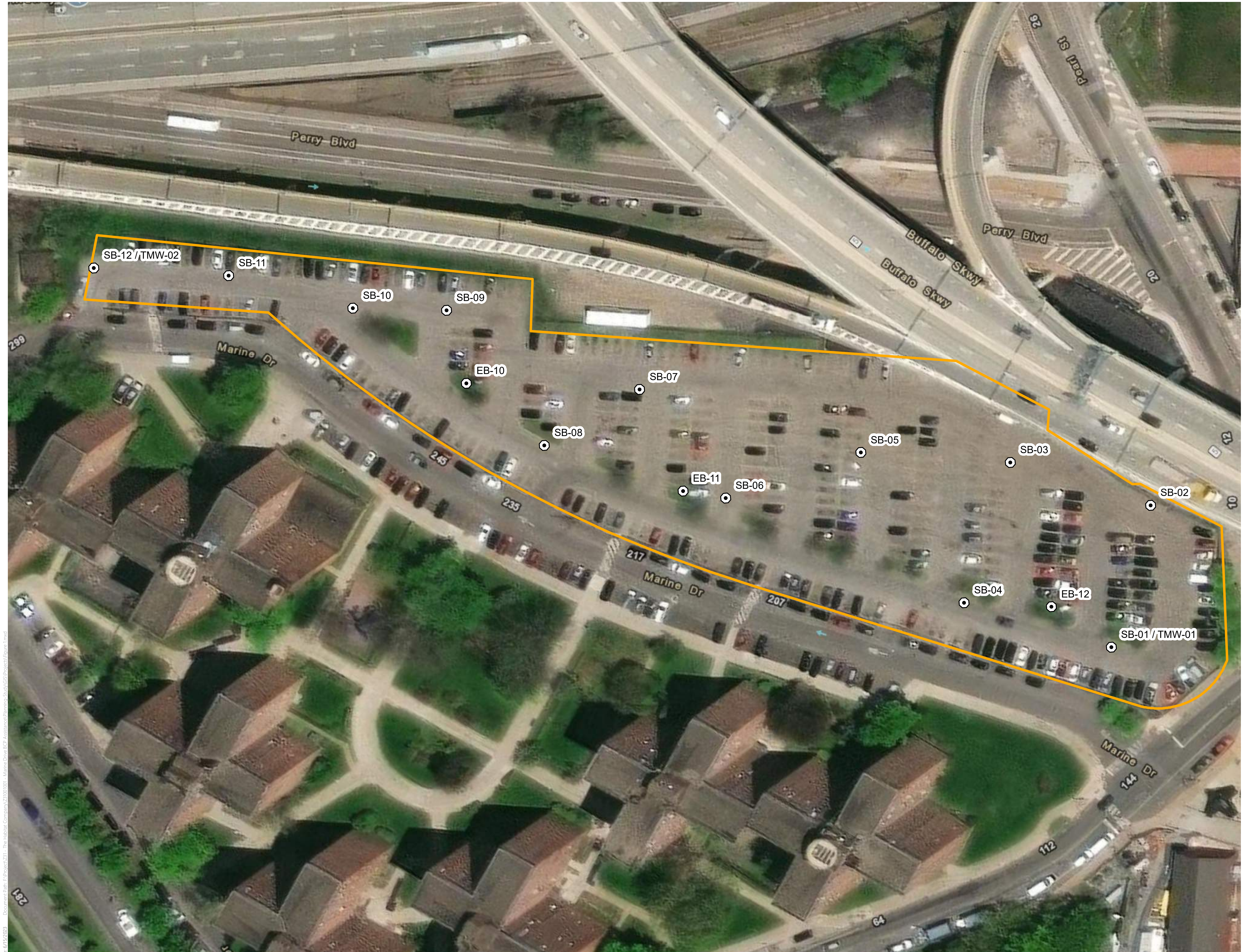


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Figure 1

Project Location

Site

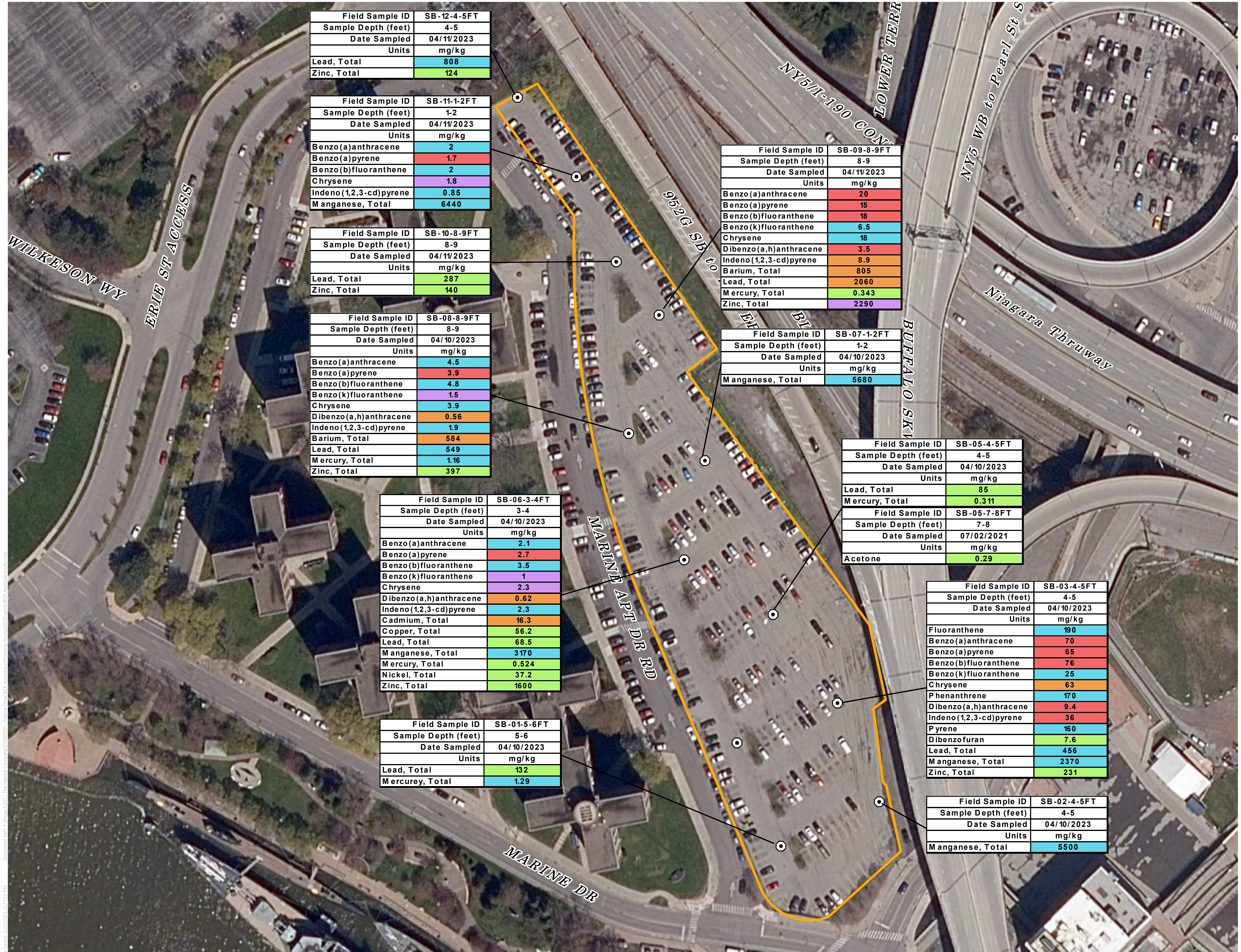
Sample Locations

0 50 100 200 Feet

1 in. = 100 feet
When printed at 11 in. by 17 in.

Marine Drive Parking Lot
LTD Environmental Site
Characterization

Sources: . Created by C&S Engineers, Inc.



Field Sample ID	SB-12-4-5FT
Sample Depth (feet)	4-5
Date Sampled	04/11/2023
Units	mg/kg
Lead, Total	808
Zinc, Total	124

Field Sample ID	SB-11-1-2FT
Sample Depth (feet)	1-2
Date Sampled	04/11/2023
Units	mg/kg
Benzo(a)anthracene	2
Benzo(a)pyrene	1.7
Benzo(b)fluoranthene	2
Chrysene	1.8
Indeno(1,2,3-cd)pyrene	0.85
Manganese, Total	6440

Field Sample ID	SB-10-8-9FT
Sample Depth (feet)	8-9
Date Sampled	04/11/2023
Units	mg/kg
Lead, Total	287
Zinc, Total	140

Field Sample ID	SB-08-8-9FT
Sample Depth (feet)	8-9
Date Sampled	04/10/2023
Units	mg/kg
Benzo(a)anthracene	4.5
Benzo(a)pyrene	3.9
Benzo(b)fluoranthene	4.8
Benzo(k)fluoranthene	1.5
Chrysene	3.9
Dibenzo(a,h)anthracene	0.56
Indeno(1,2,3-cd)pyrene	1.9
Barium, Total	584
Lead, Total	549
Mercury, Total	1.16
Zinc, Total	397

Field Sample ID	SB-09-8-9FT
Sample Depth (feet)	8-9
Date Sampled	04/11/2023
Units	mg/kg
Benzo(a)anthracene	20
Benzo(a)pyrene	15
Benzo(b)fluoranthene	18
Benzo(k)fluoranthene	6.5
Chrysene	18
Dibenzo(a,h)anthracene	3.5
Indeno(1,2,3-cd)pyrene	8.9
Barium, Total	805
Lead, Total	2060
Mercury, Total	0.343
Zinc, Total	2290

Field Sample ID	SB-07-1-2FT
Sample Depth (feet)	1-2
Date Sampled	04/10/2023
Units	mg/kg
Manganese, Total	5680

Field Sample ID	SB-05-4-5FT
Sample Depth (feet)	4-5
Date Sampled	04/10/2023
Units	mg/kg
Lead, Total	85
Mercury, Total	0.311
Field Sample ID	SB-05-7-8FT
Sample Depth (feet)	7-8
Date Sampled	07/02/2021
Units	mg/kg
Acetone	0.29

Field Sample ID	SB-06-3-4FT
Sample Depth (feet)	3-4
Date Sampled	04/10/2023
Units	mg/kg
Benzo(a)anthracene	2.1
Benzo(a)pyrene	2.7
Benzo(b)fluoranthene	3.5
Benzo(k)fluoranthene	1
Chrysene	2.3
Dibenzo(a,h)anthracene	0.62
Indeno(1,2,3-cd)pyrene	2.3
Cadmium, Total	16.3
Copper, Total	56.2
Lead, Total	68.5
Manganese, Total	3170
Mercury, Total	0.524
Nickel, Total	37.2
Zinc, Total	1600

Field Sample ID	SB-03-4-5FT
Sample Depth (feet)	4-5
Date Sampled	04/10/2023
Units	mg/kg
Fluoranthene	190
Benzo(a)anthracene	70
Benzo(a)pyrene	65
Benzo(b)fluoranthene	76
Benzo(k)fluoranthene	25
Chrysene	63
Phenanthrene	170
Dibenzo(a,h)anthracene	9.4
Indeno(1,2,3-cd)pyrene	36
Pyrene	160
Dibenzofuran	7.6
Lead, Total	456
Manganese, Total	2370
Zinc, Total	231

Field Sample ID	SB-01-5-6FT
Sample Depth (feet)	5-6
Date Sampled	04/10/2023
Units	mg/kg
Lead, Total	132
Mercurey, Total	1.29

Field Sample ID	SB-02-4-5FT
Sample Depth (feet)	4-5
Date Sampled	04/10/2023
Units	mg/kg
Manganese, Total	5500

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Figure 2

Soil Sampling

Property Boundary

Soil Sample Location

Field Sample ID	
Sample Depth (feet)	
Date Sampled	
Units	
ANALYTE CONCENTRATION EXCEED PART 375 SOIL CLEANUP OBJECTIVES	Unrestricted Use
	Residential Use
	Restricted Residential Use
	Commercial Use
	Industrial Use

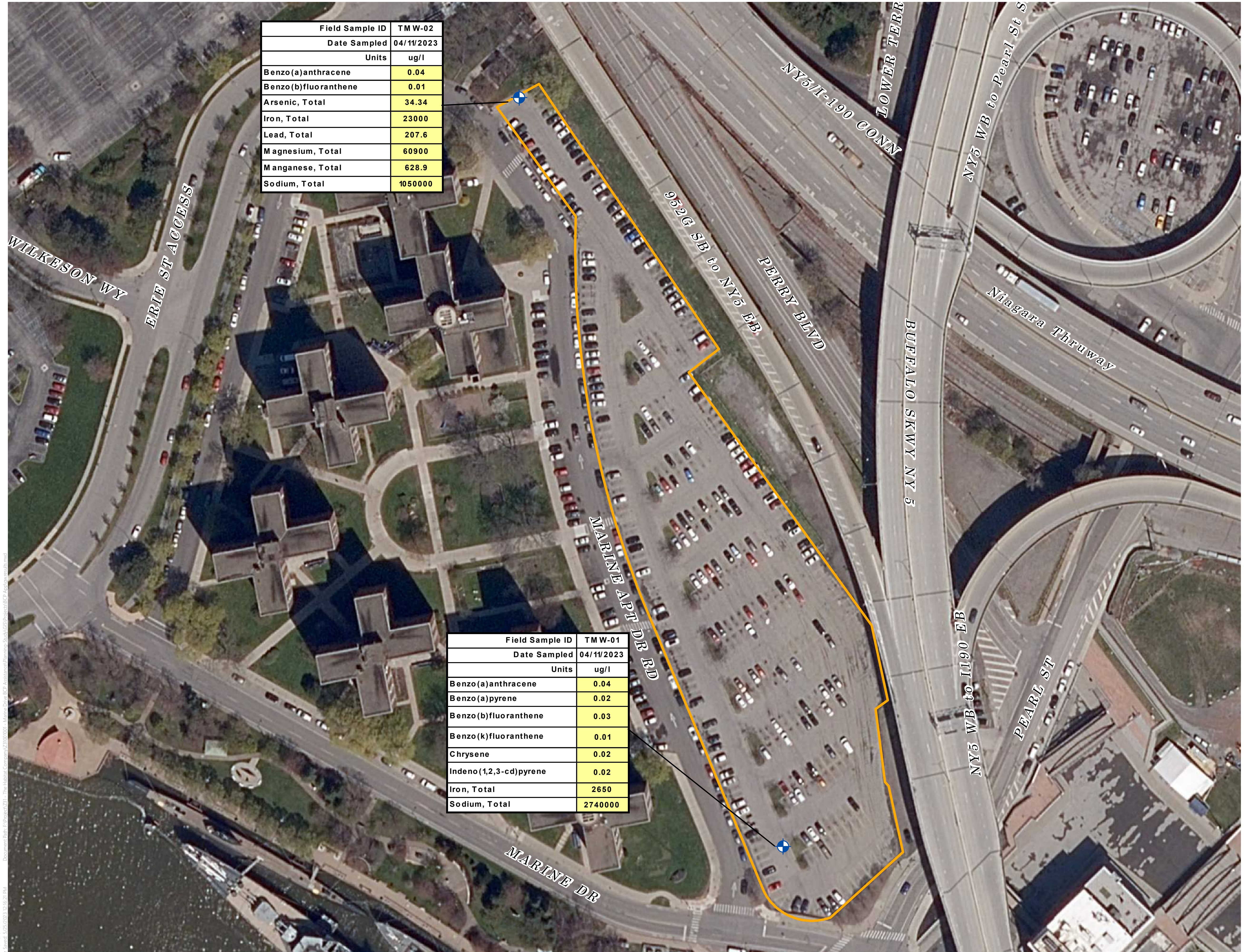
N

0 50 100 200 Feet

1 in. = 100 feet
When printed at 11 in. by 17 in.

Marine Drive Parking Lot
LTD Environmental Site Characterization

Sources: . Created by C&S Engineers, Inc.



Field Sample ID	TMW-02
Date Sampled	04/11/2023
Units	ug/l
Benzo(a)anthracene	0.04
Benzo(b)fluoranthene	0.01
Arsenic, Total	34.34
Iron, Total	23000
Lead, Total	207.6
Magnesium, Total	60900
Manganese, Total	628.9
Sodium, Total	1050000

Field Sample ID	TMW-01
Date Sampled	04/11/2023
Units	ug/l
Benzo(a)anthracene	0.04
Benzo(a)pyrene	0.02
Benzo(b)fluoranthene	0.03
Benzo(k)fluoranthene	0.01
Chrysene	0.02
Indeno(1,2,3-cd)pyrene	0.02
Iron, Total	2650
Sodium, Total	2740000

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Figure 3

Well Location

Property Boundary

Temporary Groundwater Monitoring

N

0 50 100 200 Feet

1 in. = 100 feet
When printed at 11 in. by 17 in.

Marine Drive Parking Lot
LTD Environmental Site
Characterization

Sources: , Created by C&S Engineers, Inc.

TABLES

TABLE 1

SUBSURFACE SOIL RESULTS
MARINE DRIVE APARTMENTS
PARKING LOT AREA
90 ERIE STREET
BUFFALO, NEW YORK

Location ID						SB-01-5-6FT		SB-02-4-5FT		SB-03-4-5FT		SB-05-4-5FT		SB-05-7-8FT		SB-06-3-4FT	
Sample Depth (feet below ground surface)	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	5-6		4-5		4-5		4-5		7-8		3-4	
Date Sampled						4/10/2023		4/10/2023		4/10/2023		4/10/2023		4/10/2023		4/10/2023	
Sample Matrix						SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
Units						mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
VOCs																	
Methylene chloride	0.05	51	100	500	1000	0.005	U	0.0057	U	0.0058	U	0.0057	U	0.0099	U	0.0047	U
1,1-Dichloroethane	0.27	19	26	240	480	0.001	U	0.0011	U	0.0012	U	0.0011	U	0.002	U	0.00094	U
Chloroform	0.37	10	49	350	700	0.0015	U	0.0017	U	0.0017	U	0.0017	U	0.003	U	0.0014	U
Carbon tetrachloride	0.76	1.4	2.4	22	44	0.001	U	0.0011	U	0.0012	U	0.0011	U	0.002	U	0.00094	U
1,2-Dichloropropane						0.001	U	0.0011	U	0.0012	U	0.0011	U	0.002	U	0.00094	U
Dibromochloromethane						0.001	U	0.0011	U	0.0012	U	0.0011	U	0.002	U	0.00094	U
1,1,2-Trichloroethane						0.001	U	0.0011	U	0.0012	U	0.0011	U	0.002	U	0.00094	U
Tetrachloroethene	1.3	5.5	19	150	300	0.0005	U	0.00057	U	0.00058	U	0.00057	U	0.00099	U	0.00047	U
Chlorobenzene	1.1	100	100	500	1000	0.0005	U	0.00057	U	0.00058	U	0.00057	U	0.00099	U	0.00047	U
Trichlorofluoromethane						0.004	U	0.0046	U	0.0046	U	0.0045	U	0.0079	U	0.0038	U
1,2-Dichloroethane	0.02	2.3	3.1	30	60	0.001	U	0.0011	U	0.0012	U	0.0011	U	0.002	U	0.00094	U
1,1,1-Trichloroethane	0.68	100	100	500	1000	0.0005	U	0.00057	U	0.00058	U	0.00057	U	0.00099	U	0.00047	U
Bromodichloromethane						0.0005	U	0.00057	U	0.00058	U	0.00057	U	0.00099	U	0.00047	U
trans-1,3-Dichloropropene						0.001	U	0.0011	U	0.0012	U	0.0011	U	0.002	U	0.00094	U
cis-1,3-Dichloropropene						0.0005	U	0.00057	U	0.00058	U	0.00057	U	0.00099	U	0.00047	U
Bromoform						0.004	U	0.0046	U	0.0046	U	0.0045	U	0.0079	U	0.0038	U
1,1,2,2-Tetrachloroethane						0.0005	U	0.00057	U	0.00058	U	0.00057	U	0.00099	U	0.00047	U
Benzene	0.06	2.9	4.8	44	89	0.0005	U	0.00057	U	0.00058	U	0.00057	U	0.00099	U	0.00047	U
Toluene	0.7	100	100	500	1000	0.001	U	0.0011	U	0.0012	U	0.0011	U	0.002	U	0.00094	U
Ethylbenzene	1	30	41	390	780	0.001	U	0.0011	U	0.00016	J	0.0011	U	0.002	U	0.00094	U
Chloromethane						0.004	U	0.0046	U	0.0046	U	0.0045	U	0.0079	U	0.0038	U
Bromomethane						0.002	U	0.0023	U	0.0023	U	0.0023	U	0.0039	U	0.0019	U
Vinyl chloride	0.02	0.21	0.9	13	27	0.001	U	0.0011	U	0.0012	U	0.0011	U	0.002	U	0.00094	U
Chloroethane						0.002	U	0.0023	U	0.0023	U	0.0023	U	0.0039	U	0.0019	U
1,1-Dichloroethene	0.33	100	100	500	1000	0.001	U	0.0011	U	0.0012	U	0.0011	U	0.002	U	0.00094	U
trans-1,2-Dichloroethene	0.19	100	100	500	1000	0.0015	U	0.0017	U	0.0017	U	0.0017	U	0.003	U	0.0014	U
Trichloroethene	0.47	10	21	200	400	0.0005	U	0.00057	U	0.00058	U	0.00018	J	0.00099	U	0.0041	
1,2-Dichlorobenzene	1.1	100	100	500	1000	0.002	U	0.0023	U	0.0023	U	0.0023	U	0.0039	U	0.0019	U
1,3-Dichlorobenzene	2.4	17	49	280	560	0.002	U	0.0023	U	0.0023	U	0.0023	U	0.0039	U	0.0019	U
1,4-Dichlorobenzene	1.8	9.8	13	130	250	0.002	U	0.0023	U	0.0023	U	0.0023	U	0.0039	U	0.0019	U
Methyl tert butyl ether	0.93	62	100	500	1000	0.002	U	0.0023	U	0.0023	U	0.0023	U	0.0039	U	0.0019	U
p/m-Xylene						0.002	U	0.0023	U	0.0023	U	0.0023	U	0.0039	U	0.0019	U
o-Xylene						0.001	U	0.0011	U	0.0012	U	0.0011	U	0.002	U	0.00094	U
cis-1,2-Dichloroethene	0.25	59	100	500	1000	0.001	U	0.0011	U	0.0012	U	0.0011	U	0.002	U	0.00094	U
Styrene						0.001	U	0.0011	U	0.0012	U	0.0011	U	0.002	U	0.00094	U
Dichlorodifluoromethane						0.01	U	0.011	U	0.012	U	0.011	U	0.02	U	0.0094	U
Acetone	0.05	100	100	500	1000	0.01	U	0.011	U	0.012	U	0.006	J	0.29		0.0094	U
Carbon disulfide						0.01	U	0.011	U	0.012	U	0.011	U	0.02	U	0.0094	U
2-Butanone	0.12	100	100	500	1000	0.01	U	0.011	U	0.012	U	0.011	U	0.07		0.0094	U
4-Methyl-2-pentanone						0.01	U	0.011	U	0.012	U	0.011	U	0.02	U	0.0094	U
2-Hexanone						0.01	U	0.011	U	0.012	U	0.011	U	0.02	U	0.0094	U
Bromochloromethane						0.002	U	0.0023	U	0.0023	U	0.0023	U	0.0039	U	0.0019	U
1,2-Dibromoethane						0.001	U	0.0011	U	0.0012	U	0.0011	U	0.002	U	0.00094	U
1,2-Dibromo-3-chloropropane						0.003	U	0.0034	U	0.0035	U	0.0034	U	0.0059	U	0.0028	U
Isopropylbenzene						0.001	U	0.0011	U	0.0012	U	0.0011	U	0.002	U	0.00094	U
1,2,3-Trichlorobenzene						0.002	U	0.0023	U	0.0023	U	0.0023	U	0.0039	U	0.0019	U
1,2,4-Trichlorobenzene						0.002	U	0.0023	U	0.0023	U	0.0023	U	0.0039	U	0.0019	U
Methyl Acetate						0.004	U	0.0046	U	0.0046	U	0.0045	U	0.0079	U	0.0038	U
Cyclohexane						0.01	U	0.011	U	0.012	U	0.011	U	0.02	U	0.0094	U
1,4-Dioxane	0.1	9.8	13	130	250	0.08	U	0.092	U	0.093	U	0.091	U	0.16	U	0.075	U
Freon-113						0.004	U	0.0046	U	0.0046	U	0.0045	U	0.0079	U	0.0038	U
Methyl cyclohexane						0.004	U	0.0046	U	0.0046	U	0.0045	U	0.0079	U	0.0038	U

TABLE 1

SUBSURFACE SOIL RESULTS
MARINE DRIVE APARTMENTS
PARKING LOT AREA
90 ERIE STREET
BUFFALO, NEW YORK

Location ID						SB-01-5-6FT		SB-02-4-5FT		SB-03-4-5FT		SB-05-4-5FT		SB-05-7-8FT		SB-06-3-4FT	
Sample Depth (feet below ground surface)	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	5-6		4-5		4-5		4-5		7-8		3-4	
Date Sampled						4/10/2023		4/10/2023		4/10/2023		4/10/2023		4/10/2023		4/10/2023	
Sample Matrix						SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
Units						mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
SVOCs																	
Acenaphthene	20	100	100	500	1000	0.15	U	0.056	J	13		0.16	U	0.28	U	0.17	
Hexachlorobenzene	0.33	0.33	1.2	6	12	0.11	U	0.12	U	1.2	U	0.12	U	0.21	U	0.11	U
Bis(2-chloroethyl)ether						0.17	U	0.18	U	1.7	U	0.18	U	0.32	U	0.17	U
2-Chloronaphthalene						0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
3,3'-Dichlorobenzidine						0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
2,4-Dinitrotoluene						0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
2,6-Dinitrotoluene						0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
Fluoranthene	100	100	100	500	1000	0.11	U	1.4		190		0.12	U	0.21	U	4.7	
4-Chlorophenyl phenyl ether						0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
4-Bromophenyl phenyl ether						0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
Bis(2-chloroisopropyl)ether						0.22	U	0.24	U	2.3	U	0.24	U	0.42	U	0.23	U
Bis(2-chloroethoxy)methane						0.2	U	0.22	U	2.1	U	0.21	U	0.38	U	0.2	U
Hexachlorobutadiene						0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
Hexachlorocyclopentadiene						0.54	U	0.57	U	5.5	U	0.57	U	1	U	0.54	U
Hexachloroethane						0.15	U	0.16	U	1.5	U	0.16	U	0.28	U	0.15	U
Isophorone						0.17	U	0.18	U	1.7	U	0.18	U	0.32	U	0.17	U
Naphthalene	12	100	100	500	1000	0.19	U	0.056	J	4.6		0.2	U	0.35	U	0.084	J
Nitrobenzene						0.17	U	0.18	U	1.7	U	0.18	U	0.32	U	0.17	U
NDPA/DPA						0.15	U	0.16	U	1.5	U	0.16	U	0.28	U	0.15	U
n-Nitrosodi-n-propylamine						0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
Bis(2-ethylhexyl)phthalate						0.19	U	0.082	J	1.9	U	0.093	J	0.35	U	0.19	U
Butyl benzyl phthalate						0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
Di-n-butylphthalate						0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
Di-n-octylphthalate						0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
Diethyl phthalate						0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
Dimethyl phthalate						0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
Benzo(a)anthracene	1	1	1	5.6	11	0.11	U	0.66		70		0.12	U	0.21	U	2.1	
Benzo(a)pyrene	1	1	1	1	1.1	0.15	U	0.66		65		0.16	U	0.28	U	2.7	
Benzo(b)fluoranthene	1	1	1	5.6	11	0.11	U	0.74		76		0.12	U	0.21	U	3.5	
Benzo(k)fluoranthene	0.8	1	3.9	56	110	0.11	U	0.28		25		0.12	U	0.21	U	1	
Chrysene	1	1	3.9	56	110	0.11	U	0.63		63		0.12	U	0.21	U	2.3	
Acenaphthylene	100	100	100	500	1000	0.15	U	0.07	J	2.9		0.16	U	0.28	U	0.077	J
Anthracene	100	100	100	500	1000	0.11	U	0.2		36		0.12	U	0.21	U	0.63	
Benzo(ghi)perylene	100	100	100	500	1000	0.15	U	0.38		40		0.042	J	0.28	U	2.5	
Fluorene	30	100	100	500	1000	0.19	U	0.057	J	12		0.2	U	0.35	U	0.18	J
Phenanthrene	100	100	100	500	1000	0.11	U	0.8		170		0.038	J	0.046	J	2.7	
Dibenzo(a,h)anthracene	0.33	0.33	0.33	0.56	1.1	0.11	U	0.1	J	9.4		0.12	U	0.21	U	0.62	
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5	5.6	11	0.15	U	0.33		36		0.16	U	0.28	U	2.3	
Pyrene	100	100	100	500	1000	0.11	U	1.2		160		0.12	U	0.21	U	3.5	
Biphenyl						0.43	U	0.45	U	0.88	J	0.45	U	0.8	U	0.43	U
4-Chloroaniline						0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
2-Nitroaniline						0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
3-Nitroaniline						0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
4-Nitroaniline						0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
Dibenzofuran	7	14	59	350	1000	0.19	U	0.038	J	7.6		0.2	U	0.35	U	0.11	J
2-Methylnaphthalene						0.22	U	0.048	J	2.6		0.24	U	0.42	U	0.047	J
1,2,4,5-Tetrachlorobenzene						0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
Acetophenone						0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
2,4,6-Trichlorophenol						0.11	U	0.12	U	1.2	U	0.12	U	0.21	U	0.11	U
p-Chloro-m-cresol						0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
2-Chlorophenol						0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
2,4-Dichlorophenol						0.17	U	0.18	U	1.7	U	0.18	U	0.32	U	0.17	U
2,4-Dimethylphenol						0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
2-Nitrophenol						0.41	U	0.43	U	4.2	U	0.43	U	0.76	U	0.41	U
4-Nitrophenol						0.26	U	0.28	U	2.7	U	0.28	U	0.49	U	0.26	U
2,4-Dinitrophenol						0.9	U	0.96	U	9.3	U	0.95	U	1.7	U	0.91	U
4,6-Dinitro-o-cresol						0.49	U	0.52	U	5	U	0.52	U	0.92	U	0.49	U
Pentachlorophenol	0.8	2.4	6.7	6.7	55	0.15	U	0.16	U	1.5	U	0.16	U	0.28	U	0.15	U
Phenol	0.33	100	100	500	1000	0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
2-Methylphenol	0.33	100	100	500	1000	0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
3-Methylphenol/4-Methylphenol	0.33	34	100	500	1000	0.27	U	0.29	U	2.8	U	0.29	U	0.51	U	0.27	U
2,4,5-Trichlorophenol						0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
Carbazole						0.19	U	0.1	J	18		0.2	U	0.35	U	0.7	
Atrazine						0.15	U	0.16	U	1.5	U	0.16	U	0.28	U	0.15	U
Benzaldehyde						0.25	U	0.26	U	2.6	U	0.26	U	0.47	U	0.25	U
Caprolactam						0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U
2,3,4,6-Tetrachlorophenol						0.19	U	0.2	U	1.9	U	0.2	U	0.35	U	0.19	U

TABLE 1

SUBSURFACE SOIL RESULTS
MARINE DRIVE APARTMENTS
PARKING LOT AREA
90 ERIE STREET
BUFFALO, NEW YORK

Location ID						SB-01-5-6FT		SB-02-4-5FT		SB-03-4-5FT		SB-05-4-5FT		SB-05-7-8FT		SB-06-3-4FT	
Sample Depth (feet below ground surface)	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	5-6		4-5		4-5		4-5		7-8		3-4	
Date Sampled						4/10/2023		4/10/2023		4/10/2023		4/10/2023		4/10/2023		4/10/2023	
Sample Matrix						SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
Units						mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
PCBs																	
Aroclor 1016	0.1	1	1	1	25	0.0363	U	0.0395	U	0.0388	U	0.0392	U	0.191	U	0.038	U
Aroclor 1221	0.1	1	1	1	25	0.0363	U	0.0395	U	0.0388	U	0.0392	U	0.191	U	0.038	U
Aroclor 1232	0.1	1	1	1	25	0.0363	U	0.0395	U	0.0388	U	0.0392	U	0.191	U	0.038	U
Aroclor 1242	0.1	1	1	1	25	0.0363	U	0.0395	U	0.0388	U	0.0392	U	0.191	U	0.038	U
Aroclor 1248	0.1	1	1	1	25	0.0363	U	0.0395	U	0.0388	U	0.0392	U	0.191	U	0.038	U
Aroclor 1254	0.1	1	1	1	25	0.0363	U	0.0395	U	0.0388	U	0.0392	U	0.191	U	0.00461	J
Aroclor 1260	0.1	1	1	1	25	0.0363	U	0.0395	U	0.0388	U	0.0392	U	0.191	U	0.038	U
Aroclor 1262	0.1	1	1	1	25	0.0363	U	0.0395	U	0.0388	U	0.0392	U	0.191	U	0.038	U
Aroclor 1268	0.1	1	1	1	25	0.0363	U	0.0395	U	0.0388	U	0.0392	U	0.191	U	0.038	U
PCBs, Total	0.1	1	1	1	25	0.0363	U	0.0395	U	0.0388	U	0.0392	U	0.191	U	0.00461	J
Metals																	
Aluminum, Total						3260		36200		17200		4630		2880		28400	
Antimony, Total						0.577	J	1.44	J	0.464	J	4.71	U	8.15	U	4.4	U
Arsenic, Total	13	16	16	16	16	4.16		3.52		8.39		3.53		4.32		4.6	
Barium, Total	350	350	400	400	10000	56.5		269		248		35.4		79.3		261	
Beryllium, Total	7.2	14	72	590	2700	0.184	J	4.66		1.92		0.269	J	0.152	J	3.44	
Cadmium, Total	2.5	2.5	4.3	9.3	60	0.878	U	0.937	U	0.197	J	0.942	U	1.63	U	16.3	
Calcium, Total						30700		205000		148000		72600		65300		160000	
Chromium, Total						4.34		8.44		27.7		6.12		8.17		1280	
Cobalt, Total						2.55		1.87	U	2.43		3.16		2.02	J	3.41	
Copper, Total	50	270	270	270	10000	24.4		5.48		16.6		16.7		10.4		56.2	
Iron, Total						6280		19300		24900		7250		6000		10500	
Lead, Total	63	400	400	1000	3900	132		7.61		456		85		25.5		68.5	
Magnesium, Total						7980		11400		11500		25600		12700		11400	
Manganese, Total	1600	2000	2000	10000	10000	188		5500		2370		273		141		3170	
Mercury, Total	0.18	0.81	0.81	2.8	5.7	1.29		0.077	U	0.085		0.311		0.099	J	0.524	
Nickel, Total	30	140	310	310	10000	6.3		1.09	J	18.7		8.44		6.91		37.2	
Potassium, Total						434		2060		1440		722		541		1670	
Selenium, Total	3.9	36	180	1500	6800	0.243	J	1.54	J	0.709	J	1.88	U	1.36	J	2.58	
Silver, Total	2	36	180	1500	6800	0.439	U	0.468	U	0.459	U	0.471	U	0.815	U	0.44	U
Sodium, Total						1200		1390		1390		693		2370		1580	
Thallium, Total						1.76	U	1.87	U	1.84	U	1.88	U	3.26	U	1.76	U
Vanadium, Total						7.51		8.58		17.8		8.53		9.16		8.31	
Zinc, Total	109	2200	10000	10000	10000	53.5		2.24	J	231		41.4		23.2		1600	

* Comparison is not performed on parameters with non-numeric criteria.
NY-UNRES: New York NYCRR Part 375 New York Unrestricted use Criteria Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.
NY-RESR: New York NYCRR Part 375 Residential Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.
NY-RESRR: New York NYCRR Part 375 Restricted-Residential Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.
NY-RESC: New York NYCRR Part 375 Commercial Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.
NY-RESI: New York NYCRR Part 375 Industrial Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

J - 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.
U - Not detected at the reported detection limit for the sample.

TABLE 1

SUBSURFACE SOIL RESULTS
MARINE DRIVE APARTMENTS
PARKING LOT AREA
90 ERIE STREET
BUFFALO, NEW YORK

Location ID						SB-07-1-2FT		SB-08-8-9FT		SB-09-8-9FT		SB-10-8-9FT		SB-11-1-2FT		SB-12-4-5FT	
Sample Depth (feet below ground surface)	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	1-2		8-9		8-9		8-9		1-2		4-5	
Date Sampled						4/10/2023		4/10/2023		4/11/2023		4/11/2023		4/11/2023		4/10/2023	
Sample Matrix						SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
Units						mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
VOCs																	
Methylene chloride	0.05	51	100	500	1000	0.0048	U	0.005	U	0.0055	U	0.0051	U	0.0053	U	0.0052	U
1,1-Dichloroethane	0.27	19	26	240	480	0.00096	U	0.001	U	0.0011	U	0.001	U	0.0011	U	0.001	U
Chloroform	0.37	10	49	350	700	0.0014	U	0.0015	U	0.0016	U	0.0015	U	0.0016	U	0.0016	U
Carbon tetrachloride	0.76	1.4	2.4	22	44	0.00096	U	0.001	U	0.0011	U	0.001	U	0.0011	U	0.001	U
1,2-Dichloropropane						0.00096	U	0.001	U	0.0011	U	0.001	U	0.0011	U	0.001	U
Dibromochloromethane						0.00096	U	0.001	U	0.0011	U	0.001	U	0.0011	U	0.001	U
1,1,2-Trichloroethane						0.00096	U	0.001	U	0.0011	U	0.001	U	0.0011	U	0.001	U
Tetrachloroethene	1.3	5.5	19	150	300	0.00048	U	0.0005	U	0.00055	U	0.00051	U	0.00053	U	0.00052	U
Chlorobenzene	1.1	100	100	500	1000	0.00048	U	0.0005	U	0.00055	U	0.00051	U	0.00053	U	0.00052	U
Trichlorofluoromethane						0.0038	U	0.004	U	0.0044	U	0.0041	U	0.0043	U	0.0042	U
1,2-Dichloroethane	0.02	2.3	3.1	30	60	0.00096	U	0.001	U	0.0011	U	0.001	U	0.0011	U	0.001	U
1,1,1-Trichloroethane	0.68	100	100	500	1000	0.00048	U	0.0005	U	0.00055	U	0.00051	U	0.00053	U	0.00052	U
Bromodichloromethane						0.00048	U	0.0005	U	0.00055	U	0.00051	U	0.00053	U	0.00052	U
trans-1,3-Dichloropropene						0.00096	U	0.001	U	0.0011	U	0.001	U	0.0011	U	0.001	U
cis-1,3-Dichloropropene						0.00048	U	0.0005	U	0.00055	U	0.00051	U	0.00053	U	0.00052	U
Bromoform						0.0038	U	0.004	U	0.0044	U	0.0041	U	0.0043	U	0.0042	U
1,1,2,2-Tetrachloroethane						0.00048	U	0.0005	U	0.00055	U	0.00051	U	0.00053	U	0.00052	U
Benzene	0.06	2.9	4.8	44	89	0.00048	U	0.0005	U	0.00055	U	0.00019	J	0.00029	J	0.00052	U
Toluene	0.7	100	100	500	1000	0.00096	U	0.001	U	0.0011	U	0.001	U	0.00081	J	0.001	U
Ethylbenzene	1	30	41	390	780	0.00096	U	0.001	U	0.0011	U	0.001	U	0.00019	J	0.001	U
Chloromethane						0.0038	U	0.004	U	0.0044	U	0.0041	U	0.0043	U	0.0042	U
Bromomethane						0.0019	U	0.002	U	0.0022	U	0.002	U	0.0021	U	0.0021	U
Vinyl chloride	0.02	0.21	0.9	13	27	0.00096	U	0.001	U	0.0011	U	0.001	U	0.0011	U	0.001	U
Chloroethane						0.0019	U	0.002	U	0.0022	U	0.002	U	0.0021	U	0.0021	U
1,1-Dichloroethene	0.33	100	100	500	1000	0.00096	U	0.001	U	0.0011	U	0.001	U	0.0011	U	0.001	U
trans-1,2-Dichloroethene	0.19	100	100	500	1000	0.0014	U	0.0015	U	0.0016	U	0.0015	U	0.0016	U	0.0016	U
Trichloroethene	0.47	10	21	200	400	0.00048	U	0.0005	U	0.00055	U	0.00051	U	0.00053	U	0.00052	U
1,2-Dichlorobenzene	1.1	100	100	500	1000	0.0019	U	0.002	U	0.0022	U	0.002	U	0.0021	U	0.0021	U
1,3-Dichlorobenzene	2.4	17	49	280	560	0.0019	U	0.002	U	0.0022	U	0.002	U	0.0021	U	0.0021	U
1,4-Dichlorobenzene	1.8	9.8	13	130	250	0.0019	U	0.002	U	0.0022	U	0.002	U	0.0021	U	0.0021	U
Methyl tert butyl ether	0.93	62	100	500	1000	0.0019	U	0.002	U	0.0022	U	0.002	U	0.0021	U	0.0021	U
p/m-Xylene						0.0019	U	0.002	U	0.0022	U	0.002	U	0.0021	U	0.0021	U
o-Xylene						0.00096	U	0.001	U	0.0011	U	0.001	U	0.00031	J	0.001	U
cis-1,2-Dichloroethene	0.25	59	100	500	1000	0.00096	U	0.001	U	0.0011	U	0.001	U	0.0011	U	0.001	U
Styrene						0.00096	U	0.001	U	0.0011	U	0.001	U	0.0011	U	0.001	U
Dichlorodifluoromethane						0.0096	U	0.01	U	0.011	U	0.01	U	0.011	U	0.01	U
Acetone	0.05	100	100	500	1000	0.0096	U	0.0092	J	0.0053	J	0.016		0.011	U	0.01	U
Carbon disulfide						0.0096	U	0.01	U	0.011	U	0.005	J	0.011	U	0.01	U
2-Butanone	0.12	100	100	500	1000	0.0096	U	0.01	U	0.011	U	0.01	U	0.011	U	0.01	U
4-Methyl-2-pentanone						0.0096	U	0.01	U	0.011	U	0.01	U	0.011	U	0.01	U
2-Hexanone						0.0096	U	0.01	U	0.011	U	0.01	U	0.011	U	0.01	U
Bromochloromethane						0.0019	U	0.002	U	0.0022	U	0.002	U	0.0021	U	0.0021	U
1,2-Dibromoethane						0.00096	U	0.001	U	0.0011	U	0.001	U	0.0011	U	0.001	U
1,2-Dibromo-3-chloropropane						0.0029	U	0.003	U	0.0033	U	0.0031	U	0.0032	U	0.0031	U
Isopropylbenzene						0.00096	U	0.001	U	0.0011	U	0.001	U	0.0011	U	0.001	U
1,2,3-Trichlorobenzene						0.0019	U	0.002	U	0.0022	U	0.002	U	0.0021	U	0.0021	U
1,2,4-Trichlorobenzene						0.0019	U	0.002	U	0.0022	U	0.002	U	0.0021	U	0.0021	U
Methyl Acetate						0.0038	U	0.004	U	0.0044	U	0.0041	U	0.0043	U	0.0042	U
Cyclohexane						0.0096	U	0.01	U	0.011	U	0.01	U	0.011	U	0.01	U
1,4-Dioxane	0.1	9.8	13	130	250	0.077	U	0.08	U	0.088	U	0.082	U	0.085	U	0.084	U
Freon-113						0.0038	U	0.004	U	0.0044	U	0.0041	U	0.0043	U	0.0042	U
Methyl cyclohexane						0.0038	U	0.004	U	0.0044	U	0.0041	U	0.0043	U	0.0042	U

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Sample Depth (feet below ground surface)	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	1-2		8-9		8-9		8-9		1-2		4-5	
Date Sampled						4/10/2023		4/10/2023		4/11/2023		4/11/2023		4/11/2023		4/10/2023	
Sample Matrix						SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
Units						mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
SVOCs																	
Acenaphthene	20	100	100	500	1000	0.037	J	0.54		6.1		0.086	J	0.38	J	0.027	J
Hexachlorobenzene	0.33	0.33	1.2	6	12	0.11	U	0.12	U	0.12	U	0.1	U	0.32	U	0.11	U
Bis(2-chloroethyl)ether						0.17	U	0.18	U	0.17	U	0.16	U	0.49	U	0.17	U
2-Chloronaphthalene						0.19	U	0.2	U	0.19	U	0.18	U	0.54	U	0.19	U
3,3'-Dichlorobenzidine						0.19	U	0.2	U	0.19	U	0.18	U	0.54	U	0.19	U
2,4-Dinitrotoluene						0.19	U	0.2	U	0.19	U	0.18	U	0.54	U	0.19	U
2,6-Dinitrotoluene						0.19	U	0.2	U	0.19	U	0.18	U	0.54	U	0.19	U
Fluoranthene	100	100	100	500	1000	0.86		10		44		0.98		5.2		0.42	
4-Chlorophenyl phenyl ether						0.19	U	0.2	U	0.19	U	0.18	U	0.54	U	0.19	U
4-Bromophenyl phenyl ether						0.19	U	0.2	U	0.19	U	0.18	U	0.54	U	0.19	U
Bis(2-chloroisopropyl)ether						0.22	U	0.24	U	0.23	U	0.21	U	0.65	U	0.22	U
Bis(2-chloroethoxy)methane						0.2	U	0.22	U	0.21	U	0.19	U	0.58	U	0.2	U
Hexachlorobutadiene						0.19	U	0.2	U	0.19	U	0.18	U	0.54	U	0.19	U
Hexachlorocyclopentadiene						0.53	U	0.57	U	0.55	U	0.5	U	1.5	U	0.54	U
Hexachloroethane						0.15	U	0.16	U	0.15	U	0.14	U	0.43	U	0.15	U
Isophorone						0.17	U	0.18	U	0.17	U	0.16	U	0.49	U	0.17	U
Naphthalene	12	100	100	500	1000	0.026	J	0.3		4.7		0.053	J	0.28	J	0.19	U
Nitrobenzene						0.17	U	0.18	U	0.17	U	0.16	U	0.49	U	0.17	U
NDPA/DPA						0.15	U	0.16	U	0.15	U	0.14	U	0.43	U	0.15	U
n-Nitrosodi-n-propylamine						0.19	U	0.2	U	0.19	U	0.18	U	0.54	U	0.19	U
Bis(2-ethylhexyl)phthalate						0.19	U	0.2	U	0.19	U	0.21		0.54	U	0.19	U
Butyl benzyl phthalate						0.19	U	0.2	U	0.19	U	0.18	U	0.54	U	0.19	U
Di-n-butylphthalate						0.19	U	0.2	U	0.19	U	0.18	U	0.54	U	0.19	U
Di-n-octylphthalate						0.19	U	0.2	U	0.19	U	0.18	U	0.54	U	0.19	U
Diethyl phthalate						0.19	U	0.2	U	0.19	U	0.18	U	0.54	U	0.19	U
Dimethyl phthalate						0.19	U	0.2	U	0.19	U	0.18	U	0.54	U	0.19	U
Benzo(a)anthracene	1	1	1	5.6	11	0.41		4.5		20		0.45		2		0.16	
Benzo(a)pyrene	1	1	1	1	1.1	0.4		3.9		15		0.42		1.7		0.16	
Benzo(b)fluoranthene	1	1	1	5.6	11	0.47		4.8		18		0.49		2		0.17	
Benzo(k)fluoranthene	0.8	1	3.9	56	110	0.17		1.5		6.5		0.14		0.66		0.076	J
Chrysene	1	1	3.9	56	110	0.37		3.9		18		0.4		1.8		0.15	
Acenaphthylene	100	100	100	500	1000	0.036	J	0.49		1.7		0.066	J	0.11	J	0.15	U
Anthracene	100	100	100	500	1000	0.14		1.6		14		0.25		1.6		0.086	J
Benzo(ghi)perylene	100	100	100	500	1000	0.23		1.9		7.5		0.42		0.93		0.11	J
Fluorene	30	100	100	500	1000	0.041	J	0.57		7.4		0.13	J	0.51	J	0.043	J
Phenanthrene	100	100	100	500	1000	0.55		5.1		54		0.84		5.6		0.34	
Dibenzo(a,h)anthracene	0.33	0.33	0.33	0.56	1.1	0.067	J	0.56		3.5		0.068	J	0.24	J	0.11	U
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5	5.6	11	0.22		1.9		8.9		0.25		0.85		0.095	J
Pyrene	100	100	100	500	1000	0.72		7.6		35		0.83		4		0.34	
Biphenyl						0.43	U	0.05	J	0.69		0.4	U	0.077	J	0.43	U
4-Chloroaniline						0.19	U	0.2	U	0.19	U	0.18	U	0.54	U	0.19	U
2-Nitroaniline						0.19	U	0.2	U	0.19	U	0.18	U	0.54	U	0.19	U
3-Nitroaniline						0.19	U	0.2	U	0.19	U	0.18	U	0.54	U	0.19	U
4-Nitroaniline						0.19	U	0.2	U	0.19	U	0.18	U	0.54	U	0.19	U
Dibenzofuran	7	14	59	350	1000	0.029	J	0.37		5.6		0.075	J	0.56		0.022	J
2-Methylnaphthalene						0.22	U	0.2	J	2.7		0.037	J	0.23	J	0.22	U
1,2,4,5-Tetrachlorobenzene						0.19	U	0.2	U	0.19	U	0.18	U	0.54	U	0.19	U
Acetophenone						0.19	U	0.2	U	0.19	U	0.18	U	0.54	U	0.19	U
2,4,6-Trichlorophenol						0.11	U	0.12	U	0.12	U	0.1	U	0.32	U	0.11	U
p-Chloro-m-cresol						0.19	U	0.2	U	0.19	U	0.18	U	0.54	U	0.19	U
2-Chlorophenol						0.19	U	0.2	U	0.19	U	0.18	U	0.54	U	0.19	U
2,4-Dichlorophenol						0.17	U	0.18	U	0.17	U	0.16	U	0.49	U	0.17	U
2,4-Dimethylphenol						0.19	U	0.2	U	0.11	J	0.18	U	0.54	U	0.19	U
2-Nitrophenol						0.4	U	0.43	U	0.42	U	0.38	U	1.2	U	0.4	U
4-Nitrophenol						0.26	U	0.28	U	0.27	U	0.25	U	0.76	U	0.26	U
2,4-Dinitrophenol						0.9	U	0.96	U	0.93	U	0.84	U	2.6	U	0.9	U
4,6-Dinitro-o-cresol						0.48	U	0.52	U	0.5	U	0.46	U	1.4	U	0.49	U
Pentachlorophenol	0.8	2.4	6.7	6.7	55	0.15	U	0.16	U	0.15	U	0.14	U	0.43	U	0.15	U
Phenol	0.33	100	100	500	1000	0.19	U	0.2	U	0.16	J	0.18	U	0.54	U	0.19	U
2-Methylphenol	0.33	100	100	500	1000	0.19	U	0.2	U	0.11	J	0.18	U	0.54	U	0.19	U
3-Methylphenol/4-Methylphenol	0.33	34	100	500	1000	0.27	U	0.049	J	0.31		0.25	U	0.78	U	0.27	U
2,4,5-Trichlorophenol						0.19	U	0.2	U	0.19	U	0.18	U	0.54	U	0.19	U
Carbazole						0.048	J	0.55		6.7		0.13	J	0.57		0.04	J
Atrazine						0.15	U	0.16	U	0.15	U	0.14	U	0.43	U	0.15	U
Benzaldehyde						0.25	U	0.26	U	0.26	U	0.23	U	0.71	U	0.25	U
Caprolactam						0.19	U	0.2	U	0.19	U	0.18	U	0.54	U	0.19	U
2,3,4,6-Tetrachlorophenol						0.19	U	0.2	U	0.19	U	0.18	U	0.54	U	0.19	U

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Date Sampled						4/10/2023		4/10/2023		4/11/2023		4/11/2023		4/11/2023		4/10/2023	
Sample Matrix						SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
Units						mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
PCBs																	
Aroclor 1016	0.1	1	1	1	25	0.0376	U	0.0392	U	0.0383	U	0.0345	U	0.0372	U	0.0364	U
Aroclor 1221	0.1	1	1	1	25	0.0376	U	0.0392	U	0.0383	U	0.0345	U	0.0372	U	0.0364	U
Aroclor 1232	0.1	1	1	1	25	0.0376	U	0.0392	U	0.0383	U	0.0345	U	0.0372	U	0.0364	U
Aroclor 1242	0.1	1	1	1	25	0.0376	U	0.0392	U	0.0383	U	0.0345	U	0.0372	U	0.0364	U
Aroclor 1248	0.1	1	1	1	25	0.0376	U	0.0392	U	0.0383	U	0.0345	U	0.0372	U	0.0364	U
Aroclor 1254	0.1	1	1	1	25	0.0376	U	0.0392	U	0.0383	U	0.0345	U	0.0372	U	0.0364	U
Aroclor 1260	0.1	1	1	1	25	0.0376	U	0.0392	U	0.0383	U	0.0345	U	0.0372	U	0.0364	U
Aroclor 1262	0.1	1	1	1	25	0.0376	U	0.0392	U	0.0383	U	0.0345	U	0.0372	U	0.0364	U
Aroclor 1268	0.1	1	1	1	25	0.0376	U	0.0392	U	0.0383	U	0.0345	U	0.0372	U	0.0364	U
PCBs, Total	0.1	1	1	1	25	0.0376	U	0.0392	U	0.0383	U	0.0345	U	0.0372	U	0.0364	U
Metals																	
Aluminum, Total						33300		5120		3810		2550		36800		12600	
Antimony, Total						0.765	J	0.439	J	4.42	U	0.773	J	1.14	J	0.62	J
Arsenic, Total	13	16	16	16	16	4.07		3.78		7.18		3.3		12.4		6.19	
Barium, Total	350	350	400	400	10000	247		584		805		104		328		230	
Beryllium, Total	7.2	14	72	590	2700	4.23		0.466		0.145	J	0.166	J	4.58		0.869	
Cadmium, Total	2.5	2.5	4.3	9.3	60	0.875	U	0.73	J	1.81		0.257	J	0.883	U	0.145	J
Calcium, Total						183000		67400		60000		20100		205000		80000	
Chromium, Total						43.8		13.3		7.53		5.22		47.4		10.6	
Cobalt, Total						1.75	U	1.35	J	1.84		2.16		1.77	U	1.85	
Copper, Total	50	270	270	270	10000	5.25		44.5		13.9		14.4		10.4		6.35	
Iron, Total						13200		4930		5320		5020		17300		8150	
Lead, Total	63	400	400	1000	3900	6.62		549		2060		287		14		808	
Magnesium, Total						12800		7190		4440		3450		14400		6140	
Manganese, Total	1600	2000	2000	10000	10000	5680		601		170		114		6440		921	
Mercury, Total	0.18	0.81	0.81	2.8	5.7	0.071	U	1.16		0.343		0.156		0.073	U	0.048	J
Nickel, Total	30	140	310	310	10000	1.21	J	4.84		5.31		7.31		3.51		5.28	
Potassium, Total						2250		473		441		346		2590		1000	
Selenium, Total	3.9	36	180	1500	6800	1.88		1.36	J	0.255	J	0.844	J	1.29	J	1.7	U
Silver, Total	2	36	180	1500	6800	0.437	U	0.456	U	0.442	U	0.419	U	0.442	U	0.425	U
Sodium, Total						2070		1740		1130		2950		3840		1030	
Thallium, Total						1.75	U	1.82	U	1.77	U	1.68	U	1.77	U	1.7	U
Vanadium, Total						35.9		6.53		18.2		7.68		27.6		27.1	
Zinc, Total	109	2200	10000	10000	10000	29.1		397		2290		140		36.2		124	

* Comparison is not performed on parameters with non-numeric criteria.
NY-UNRES: New York NYCRR Part 375 New York Unrestricted use Criteria per 6 NYCRR P
NY-RESR: New York NYCRR Part 375 Residential Criteria, New York Restricted use Criteria per 6 N
NY-RESRR: New York NYCRR Part 375 Restricted-Residential Criteria, New York Restricted use Cr
NY-RESC: New York NYCRR Part 375 Commercial Criteria, New York Restricted use Criteria per 6 I
NY-RESI: New York NYCRR Part 375 Industrial Criteria, New York Restricted use Criteria per 6 NYC

J - Presumptive evidence of compound. This represents an estimated concentration for Tentatively I
U - Not detected at the reported detection limit for the sample.

TABLE 2

GROUNDWATER RESULTS
MARINE DRIVE APARTMENTS
PARKING LOT AREA
90 ERIE STREET
BUFFALO, NEW YORK

Location ID	NY-AWQS	NY-TOGS-GA	TMW-01		TMW-02	
Date Sampled			4/11/2023		4/11/2023	
Sample Matrix			GROUNDWATER		GROUNDWATER	
Units			ug/l		ug/l	
VOCs						
Methylene chloride	5	5	2.5	U	2.5	U
1,1-Dichloroethane	5	5	2.5	U	2.5	U
Chloroform	7	7	2.5	U	2.5	U
Carbon tetrachloride	5	5	0.5	U	0.5	U
1,2-Dichloropropane	1	1	1	U	1	U
Dibromochloromethane	50	50	0.5	U	0.5	U
1,1,2-Trichloroethane	1	1	1.5	U	1.5	U
Tetrachloroethene	5	5	0.5	U	0.5	U
Chlorobenzene	5	5	2.5	U	2.5	U
Trichlorofluoromethane	5	5	2.5	U	2.5	U
1,2-Dichloroethane	0.6	0.6	0.5	U	0.5	U
1,1,1-Trichloroethane	5	5	2.5	U	2.5	U
Bromodichloromethane	50	50	0.5	U	0.5	U
trans-1,3-Dichloropropene	0.4	0.4	0.5	U	0.5	U
cis-1,3-Dichloropropene	0.4	0.4	0.5	U	0.5	U
Bromoform	50	50	2	U	2	U
1,1,2,2-Tetrachloroethane	5	5	0.5	U	0.5	U
Benzene	1	1	0.5	U	0.5	U
Toluene	5	5	2.5	U	2.5	U
Ethylbenzene	5	5	2.5	U	2.5	U
Chloromethane			2.5	U	2.5	U
Bromomethane	5	5	2.5	U	2.5	U
Vinyl chloride	2	2	1	U	1	U
Chloroethane	5	5	2.5	U	2.5	U
1,1-Dichloroethene	5	5	0.5	U	0.5	U
trans-1,2-Dichloroethene	5	5	2.5	U	2.5	U
Trichloroethene	5	5	0.5	U	0.5	U
1,2-Dichlorobenzene	3	3	2.5	U	2.5	U
1,3-Dichlorobenzene	3	3	2.5	U	2.5	U
1,4-Dichlorobenzene	3	3	2.5	U	2.5	U
Methyl tert butyl ether	10	10	2.5	U	2.5	U
p/m-Xylene	5	5	2.5	U	2.5	U
o-Xylene	5	5	2.5	U	2.5	U
cis-1,2-Dichloroethene	5	5	2.5	U	2.5	U
Styrene	5	930	2.5	U	2.5	U
Dichlorodifluoromethane	5	5	5	U	5	U
Acetone	50	50	5	U	5	U
Carbon disulfide	60	60	5	U	5	U
2-Butanone	50	50	5	U	5	U
4-Methyl-2-pentanone			5	U	5	U
2-Hexanone	50	50	5	U	5	U
Bromochloromethane	5	5	2.5	U	2.5	U
1,2-Dibromoethane	0.0006	0.0006	2	U	2	U
1,2-Dibromo-3-chloropropane	0.04	0.04	2.5	U	2.5	U
Isopropylbenzene	5	5	2.5	U	2.5	U
1,2,3-Trichlorobenzene	5	5	2.5	U	2.5	U
1,2,4-Trichlorobenzene	5	5	2.5	U	2.5	U
Methyl Acetate			2	U	2	U
Cyclohexane			10	U	10	U
1,4-Dioxane			250	U	250	U
Freon-113	5	5	2.5	U	2.5	U
Methyl cyclohexane			10	U	10	U

TABLE 2

GROUNDWATER RESULTS
MARINE DRIVE APARTMENTS
PARKING LOT AREA
90 ERIE STREET
BUFFALO, NEW YORK

Location ID	NY-AWQS	NY-TOGS-GA	TMW-01		TMW-02	
Date Sampled			4/11/2023		4/11/2023	
Sample Matrix			GROUNDWATER		GROUNDWATER	
Units			ug/l		ug/l	
SVOCs						
Bis(2-chloroethyl)ether	1	1	2	U	2	U
3,3'-Dichlorobenzidine	5	5	5	U	5	U
2,4-Dinitrotoluene	5	5	5	U	5	U
2,6-Dinitrotoluene	5	5	5	U	5	U
4-Chlorophenyl phenyl ether			2	U	2	U
4-Bromophenyl phenyl ether			2	U	2	U
Bis(2-chloroisopropyl)ether	5	5	2	U	2	U
Bis(2-chloroethoxy)methane	5	5	5	U	5	U
Hexachlorocyclopentadiene	5	5	20	U	20	U
Isophorone	50	50	5	U	5	U
Nitrobenzene	0.4	0.4	2	U	2	U
NDPA/DPA	50	50	2	U	2	U
n-Nitrosodi-n-propylamine			5	U	5	U
Bis(2-ethylhexyl)phthalate	5	5	3	U	3	U
Butyl benzyl phthalate	50	50	5	U	5	U
Di-n-butylphthalate	50	50	5	U	5	U
Di-n-octylphthalate	50	50	5	U	5	U
Diethyl phthalate	50	50	5	U	5	U
Dimethyl phthalate	50	50	5	U	5	U
Biphenyl			2	U	2	U
4-Chloroaniline	5	5	5	U	5	U
2-Nitroaniline	5	5	5	U	5	U
3-Nitroaniline	5	5	5	U	5	U
4-Nitroaniline	5	5	5	U	5	U
Dibenzofuran			2	U	2	U
1,2,4,5-Tetrachlorobenzene	5	5	10	U	10	U
Acetophenone			5	U	5	U
2,4,6-Trichlorophenol			5	U	5	U
p-Chloro-m-cresol			2	U	2	U
2-Chlorophenol			2	U	2	U
2,4-Dichlorophenol	1	2	5	U	5	U
2,4-Dimethylphenol	50	2	5	U	5	U
2-Nitrophenol			10	U	10	U
4-Nitrophenol			10	U	10	U
2,4-Dinitrophenol	10	2	20	U	20	U
4,6-Dinitro-o-cresol			10	U	10	U
Phenol	1	2	5	U	5	U
2-Methylphenol			5	U	5	U
3-Methylphenol/4-Methylphenol			5	U	5	U
2,4,5-Trichlorophenol			5	U	5	U
Carbazole			2	U	2	U
Atrazine	7.5	7.5	10	U	10	U
Benzaldehyde			5	U	5	U
Caprolactam			10	U	10	U
2,3,4,6-Tetrachlorophenol			5	U	5	U

TABLE 2

GROUNDWATER RESULTS
MARINE DRIVE APARTMENTS
PARKING LOT AREA
90 ERIE STREET
BUFFALO, NEW YORK

Location ID	NY-AWQS	NY-TOGS-GA	TMW-01		TMW-02	
Date Sampled			4/11/2023		4/11/2023	
Sample Matrix			GROUNDWATER		GROUNDWATER	
Units			ug/l		ug/l	
SVOCs - SIM						
Acenaphthene	20	20	0.1	U	0.1	U
2-Chloronaphthalene	10	10	0.2	U	0.2	U
Fluoranthene	50	50	0.05	J	0.02	J
Hexachlorobutadiene	0.5	0.5	0.5	U	0.5	U
Naphthalene	10	10	0.1	U	0.1	U
Benzo(a)anthracene	0.002	0.002	0.04	J	0.04	J
Benzo(a)pyrene	0	0	0.02	J	0.1	U
Benzo(b)fluoranthene	0.002	0.002	0.03	J	0.01	J
Benzo(k)fluoranthene	0.002	0.002	0.01	J	0.1	U
Chrysene	0.002	0.002	0.02	J	0.1	U
Acenaphthylene			0.1	U	0.1	U
Anthracene	50	50	0.1	U	0.01	J
Benzo(ghi)perylene			0.02	J	0.1	U
Fluorene	50	50	0.1	U	0.1	U
Phenanthrene	50	50	0.04	J	0.1	U
Dibenzo(a,h)anthracene			0.1	U	0.1	U
Indeno(1,2,3-cd)pyrene	0.002	0.002	0.02	J	0.1	U
Pyrene	50	50	0.04	J	0.1	U
2-Methylnaphthalene			0.1	U	0.1	U
Pentachlorophenol	1	2	0.8	U	0.8	U
Hexachlorobenzene	0.04	0.04	0.8	U	0.8	U
Hexachloroethane	5	5	0.8	U	0.8	U
Metals						
Aluminum, Total		2000	1280		985	
Antimony, Total	3	6	40	U	4	U
Arsenic, Total	25	50	5.56		34.34	
Barium, Total	1000	2000	151		655.6	
Beryllium, Total	3	3	5	U	0.5	U
Cadmium, Total	5	10	2	U	0.2	U
Calcium, Total			313000		200000	
Chromium, Total	50	100	3.81	J	2.38	
Cobalt, Total			1.91	J	1.78	
Copper, Total	200	1000	15.28		3.08	
Iron, Total	300	600	2650		23000	
Lead, Total	25	50	20.39		207.6	
Magnesium, Total	35000	35000	30900		60900	
Manganese, Total	300	600	298.6		628.9	
Mercury, Total	0.7	1.4	0.2	U	0.2	U
Nickel, Total	100	200	20	U	3.96	
Potassium, Total			29200		27500	
Selenium, Total	10	20	50	U	5	U
Silver, Total	50	100	4	U	0.4	U
Sodium, Total	20000		2740000		1050000	
Thallium, Total	0.5	0.5	10	U	1	U
Vanadium, Total			50	U	8.93	
Zinc, Total	2000	5000	100	U	19.53	

* Comparison is not performed on parameters with non-numeric criteria.
NY-AWQS: New York TOGS 111 Ambient Water Quality Standards criteria reflects all addendum to criteria through June 2004.
NY-TOGS-GA: New York TOGS 111 Groundwater Effluent Limitations criteria reflects all addendum to criteria through June 2004.

J - 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.
U - Not detected at the reported detection limit for the sample.

APPENDICES

Appendix A
Historical Environmental Documentation

Appendix B
Soil Boring Logs

C&S Engineers, Inc.
141 Elm Street, Suite 100
Buffalo, New York 14203
Phone: 716-847-1630
Fax: 716-847-1454

BORING LOG

Boring No.	**SB-01**
Sheet 1 of:	
Project No.:	
Surface Elev.:	
Datum:	
Start Date:	4/10/23
Finish Date:	
Inspector:	

Project Name:	Marine Drive Apartments - Parking Lot							
Location:	90 Erie, Buffalo, NY							
Client:	The Habitat Company							
Drilling Firm:	TREC							
Groundwater	**Depth**	**Date & Time**	**Drill Rig:**					
While Drilling:		9:20:00 AM	**Casing:**		**Rock Core:**		**Undist:**	
Before Casing Removal:			**Sampler:**		**Other:**			
After Casing Removal:			**Hammer:**					

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION (c - coarse, m - medium, f - fine; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%)	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
				0-0.2 ft- Asphalt	
1					0 ppm
				0.2-1.1 ft- Dark brown sand and angular gravel, fill	
2					
				1.1-1.8 ft- Light brown sand and small angular gravel, fill	
3				1.8-2.2 ft- Sand and brick	Sample collected at 5-6 ft
				2.2-2.4 ft- angular gravel/concrete	
4				2.4-3.1 ft- Dark brown sandy silt	Temp Monitoring Well Installed
				0-1.3 ft- Black sand, little angular gravel	
5					Water Level :
				1.3-3.2 ft- Pulverized brick fragments and orange sand, fill	7.5 feet bgs
6					
7					
8					
				0-0.4 ft- Brick fragments and coarse sand, moist	
9					
				0.4-2.8 ft - Brown silty clay, soft, moist, saturated	
10					
11					
12					
				0-3.5 ft- Brown sand, saturated	
13				3.5-4.0 ft- Dark brown silt	
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					

C&S Engineers, Inc.
141 Elm Street, Suite 100
Buffalo, New York 14203
Phone: 716-847-1630
Fax: 716-847-1454

BORING LOG

Boring No.	**SB-02**
Sheet 1 of:	
Project No.:	
Surface Elev.:	
Datum:	
Start Date:	4/10/23
Finish Date:	
Inspector:	

Project Name:	Marine Drive Apartments - Parking Lot
Location:	90 Erie, Buffalo, NY
Client:	The Habitat Company
Drilling Firm:	TREC

Groundwater	Depth	Date & Time	Drill Rig:				Undist:	
While Drilling:		10:00:00 AM	**Casing:**		**Rock Core:**			
Before Casing Removal:			**Sampler:**		**Other:**			
After Casing Removal:			**Hammer:**					

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

c - coarse
m - medium
f - fine

MATERIAL DESCRIPTION

S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey

a - and - 35-50%
s - some - 20-35%
l - little - 10-20%
t - trace - 0-10%

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				0-0.2 ft- Asphalt	
					0 ppm
2				0.2-0.7 ft- Large angular gravel, little sand, fill	
3				0.7-1.9 ft- Grey silty sand and angular gravel, fill	
				1.9-2.4 ft- Brick fragments and black sand, fill	Sample collected at 4.5 ft
4					
					Hit refusal at ~ 11-12 ft
5				0-1.0 ft- Brick fragments and black sand, trace angular gravel, fill	
6					
7					
8					
9				0-0.7 ft- Grey coarse sand	
				0.7-0.9 ft- Brown silty sand and angular gravel	
10				0.9-2.1 ft- Large angular gravel	
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					

C&S COMPANIES	C&S Engineers, Inc. 141 Elm Street, Suite 100 Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454	**BORING LOG**	Boring No.	SB-03
			Sheet 1 of:	
			Project No.:	

Project Name:	Marine Drive Apartments - Parking Lot						**Surface Elev.:**		
Location:	90 Erie, Buffalo, NY						**Datum:**		
Client:	The Habitat Company						**Start Date:**	4/10/23	
Drilling Firm:	TREC						**Finish Date:**		
Groundwater	**Depth**	**Date & Time**	**Drill Rig:**				**Inspector:**		
While Drilling:		10:30:00 AM	**Casing:**		**Rock Core:**		**Undist:**		
Before Casing Removal:			**Sampler:**		**Other:**				
After Casing Removal:			**Hammer:**						

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	c - coarse m - medium f - fine **MATERIAL DESCRIPTION** S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey a - and - 35-50% s - some - 20-35% l - little - 10-20% t - trace - 0-10%	**COMMENTS** (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				0-0.2 ft- Asphalt	
					0 ppm
2				0.2-2.2 ft- Angular gravel, grey sand, fill	
				Geotextile layer @~2-2.5ft	
3				2.2-3.0 ft- Black coarse sand and brick fragments, fill	Sample collected at 4-5 ft
4					
5				0-0.7 ft- Black coarse sand and brick fragments, fill	
				0.7-1.0 ft- Light brown coarse sand, some brick fragments, fill	
6				1.0-1.4 ft- Brown sand and angular gravel, trace brick, fill	
7					
8					
9				0-0.6 ft- Dark brown coarse sand	
				0.6-3.2 ft- Black silty clay, root fragments observed	
10					
11					
12					
13				0-4 ft- Coarse brown sand, some clay, saturated	
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					

C&S COMPANIES	C&S Engineers, Inc. 141 Elm Street, Suite 100 Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454	**BORING LOG**	Boring No.	SB-04
			Sheet 1 of:	
			Project No.:	

Project Name:	Marine Drive Apartments - Parking Lot						**Surface Elev.:**		
Location:	90 Erie, Buffalo, NY						**Datum:**		
Client:	The Habitat Company						**Start Date:**	4/10/23	
Drilling Firm:	TREC						**Finish Date:**		
Groundwater	**Depth**	**Date & Time**	**Drill Rig:**				**Inspector:**		
While Drilling:		11:15:00 AM	**Casing:**		**Rock Core:**		**Undist:**		
Before Casing Removal:			**Sampler:**		**Other:**				
After Casing Removal:			**Hammer:**						

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	c - coarse m - medium f - fine **MATERIAL DESCRIPTION** S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey a - and - 35-50% s - some - 20-35% l - little - 10-20% t - trace - 0-10%	**COMMENTS** (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
				0-0.2 ft- Asphalt	
1					0 ppm
				0.2-2.0 ft- Angular gravel, grey sand, fill	
2					
3				2.0-3.0 ft- Dark brown silty sand, some brick fragments, moist	Hit Refusal at 7.7 ft
4					
				0-1.3 ft- Sandy clay, some rounded small gravel, loose	
5				1.3-2.1 ft- Brown fine sand, saturated	
				2.1-2.7 ft- Black sandy clay, moist	
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					

C&S Engineers, Inc.	BORING LOG	Boring No.	SB-05
141 Elm Street, Suite 100		Sheet 1 of:	
Buffalo, New York 14203		Project No.:	
Phone: 716-847-1630		Surface Elev.:	
Fax: 716-847-1454		Datum:	

Project Name:	Marine Drive Apartments - Parking Lot							**Start Date:**	4/10/23
Location:	90 Erie, Buffalo, NY							**Finish Date:**	
Client:	The Habitat Company							**Inspector:**	
Drilling Firm:	TREC								
Groundwater		**Depth**	**Date & Time**	**Drill Rig:**					
While Drilling:			11:15:00 AM	**Casing:**		**Rock Core:**		**Undist:**	
Before Casing Removal:				**Sampler:**		**Other:**			
After Casing Removal:				**Hammer:**					

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION c - coarse, m - medium, f - fine S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				0-0.2 ft- Asphalt	
					0 ppm
2				0.2-2.0 ft- Angular gravel, grey sand, fill	
3				2.0-3.0 ft- Dark brown silty sand, some brick fragments, moist	Hit Refusal at 7.7 ft
4					
5				0-1.3 ft- Sandy clay, some rounded small gravel, loose	
				1.3-2.1 ft- Brown fine sand, saturated	
6				2.1-2.7 ft- Black sandy clay, moist	
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					

C&S COMPANIES	C&S Engineers, Inc. 141 Elm Street, Suite 100 Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454	**BORING LOG**	Boring No.	SB-06
			Sheet 1 of:	
			Project No.:	

Project Name:	Marine Drive Apartments - Parking Lot						**Surface Elev.:**		
Location:	90 Erie, Buffalo, NY						**Datum:**		
Client:	The Habitat Company						**Start Date:**	4/10/23	
Drilling Firm:	TREC						**Finish Date:**		
Groundwater	**Depth**	**Date & Time**	**Drill Rig:**				**Inspector:**		
While Drilling:		12:40:00 PM	**Casing:**		**Rock Core:**		**Undist:**		
Before Casing Removal:			**Sampler:**		**Other:**				
After Casing Removal:			**Hammer:**						

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION c - coarse, m - medium, f - fine S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				0-0.2 ft- Asphalt	
					0 ppm
2				0.2-2.0 ft- Coarse sand and small angular gravel, fill	
3				2.0-2.4 ft- Sand and brick fragments	
					Sample collected at 3-4 ft
4				2.4-2.9 ft- Dark brown silty clay	
5				0-0.6 ft- Brown coarse sand, some angular gravel, trace brick	
				0.6-2.7 ft- Black silt	
6					
7					
8					
9				0-2.0 ft- Black silt,some clay, saturated	
10				2.0-4.0 ft- grey silty clay	
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					

C&S COMPANIES	C&S Engineers, Inc. 141 Elm Street, Suite 100 Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454	**BORING LOG**	Boring No.	SB-07
			Sheet 1 of:	
			Project No.:	

Project Name:	Marine Drive Apartments - Parking Lot						**Surface Elev.:**		
Location:	90 Erie, Buffalo, NY						**Datum:**		
Client:	The Habitat Company						**Start Date:**	4/10/23	
Drilling Firm:	TREC						**Finish Date:**		
Groundwater	**Depth**	**Date & Time**	**Drill Rig:**				**Inspector:**		
While Drilling:		1:45:00 PM	**Casing:**		**Rock Core:**		**Undist:**		
Before Casing Removal:			**Sampler:**		**Other:**				
After Casing Removal:			**Hammer:**						

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	c - coarse m - medium f - fine **MATERIAL DESCRIPTION** S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey a - and - 35-50% s - some - 20-35% l - little - 10-20% t - trace - 0-10%	**COMMENTS** (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				0-0.2 ft- Asphalt	
					0 ppm
2				0.2-2.3 ft- Sand and angular gravel, fill	
3				Geotextile fabric layer at ~2.3 ft	
					Sample collected at 1-2 ft
4				2.3-3.4 ft- Coarse brown sand	
5				0-1.8 ft- Coarse brown sand	
6				1.8-2.1 ft White angular small gravel, possible concrete	
7				2.1-3.1 ft Dark brown, silty clay, gravel	
8					
9				0-1.4 ft- Coarse brown sand	
10				1.4-3.0 ft- Black silt, dense	
11					
12					
13				0-2.8 ft Grey silty clay, saturated	
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					

C&S COMPANIES	C&S Engineers, Inc. 141 Elm Street, Suite 100 Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454	**BORING LOG**	Boring No.	SB-08
			Sheet 1 of:	
			Project No.:	

Project Name:	Marine Drive Apartments - Parking Lot						**Surface Elev.:**		
Location:	90 Erie, Buffalo, NY						**Datum:**		
Client:	The Habitat Company						**Start Date:**	4/10/23	
Drilling Firm:	TREC						**Finish Date:**		
Groundwater	**Depth**	**Date & Time**	**Drill Rig:**				**Inspector:**		
While Drilling:		2:20:00 PM	**Casing:**		**Rock Core:**		**Undist:**		
Before Casing Removal:			**Sampler:**		**Other:**				
After Casing Removal:			**Hammer:**						

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	c - coarse m - medium f - fine **MATERIAL DESCRIPTION** S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey a - and - 35-50% s - some - 20-35% l - little - 10-20% t - trace - 0-10%	**COMMENTS** (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				0-0.2 ft- Asphalt	
					0 ppm
2				0.2-2.1 ft- Brown sand, angular gravel, fill	
3				Geotextile fabric layer at ~2.1 ft	
					Sample collected at 8-9 ft
4				2.1-3.0 ft- Dark brown sand, gravel, trace brick fragments	
5				0-0.9 ft- sand and brick fragments	
6				0.9-1.7 ft- Black sandy clay, moist	
7					
8					
9				0-0.9 ft- Black sandy clay, some brick fragments, moist	
10				0.9-3.0 ft- Grey sandy clay, saturated	
11					
12					
13				0-2.9 ft- small angular gravel and coarse sand, saturated	
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					

C&S Engineers, Inc.
141 Elm Street, Suite 100
Buffalo, New York 14203
Phone: 716-847-1630
Fax: 716-847-1454

BORING LOG

Boring No.	**SB-09**		
Sheet 1 of:			
Project No.:			
Project Name:	Marine Drive Apartments - Parking Lot	**Surface Elev.:**	
Location:	90 Erie, Buffalo, NY	**Datum:**	
Client:	The Habitat Company	**Start Date:**	4/11/23
Drilling Firm:	TREC	**Finish Date:**	
Groundwater	**Depth** / **Date & Time**	**Drill Rig:**	**Inspector:**
While Drilling:	09:20:00 AM	**Casing:**	**Rock Core:** / **Undist:**
Before Casing Removal:		**Sampler:**	**Other:**
After Casing Removal:		**Hammer:**	

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION (c - coarse, m - medium, f - fine; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%)	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				0-0.2 ft- Asphalt	
					0 ppm
2				0.2-0.4 ft- Dark brown fine sand	
				0.4-2.1 ft- Brown sand and angular gravel, fill	
3				2.1-2.8 ft- Dark brown/ black silty clay	
					Sample collected at 8-9 ft
4				2.8-3.3 ft- Angular gravel and brick fragments	
5				0-0.6 ft- Brick fragments	
6				0.6-1.0 ft- Light brown sand, little brick fragments	
7				1.0-1.4 ft- Sand and angular gravel	
8					
9				0-0.8 ft- Sand and angular gravel, trace brick	
10				0.8-1.2 ft- Black sand and gravel, moist	
11				1.2-1.8 ft- Brown coarse sand, moist	
12				1.8-2.4 ft- Angular gravel and grey sand, saturated	
13				0-3.0 ft- Angular gravel and grey sand, saturated	
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					

C&S COMPANIES	**C&S Engineers, Inc.** 141 Elm Street, Suite 100 Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454	**BORING LOG**	***Boring No.*** **SB-10** ***Sheet 1 of:*** ***Project No.:***

Project Name:	Marine Drive Apartments - Parking Lot							***Surface Elev.:***	
Location:	90 Erie, Buffalo, NY							***Datum:***	
Client:	The Habitat Company							***Start Date:***	4/11/23
Drilling Firm:	TREC							***Finish Date:***	
Groundwater		***Depth***	***Date & Time***	***Drill Rig:***				***Inspector:***	
While Drilling:			10:10:00 AM	***Casing:***		***Rock Core:***		***Undist:***	
Before Casing Removal:				***Sampler:***		***Other:***			
After Casing Removal:				***Hammer:***					

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	c - coarse m - medium f - fine **MATERIAL DESCRIPTION** S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey a - and - 35-50% s - some - 20-35% l - little - 10-20% t - trace - 0-10%	**COMMENTS** (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				0-0.2 ft- Asphalt	
					0 ppm
2				0.2-2.5 ft- Grey sand and angular gravel, fill	
3				2.5-3.6 ft- Dark brown silty sand and angular gravel	
					Sample collected at 8-9 ft
4					
5				0-0.1 ft- Brown sand and angular gravel	
6					
7				No Recovery	
8					
9				0-0.4 ft- Dark brown sand, some angular gravel, little brick fragments	
10				0.4-0.7 ft- Black silt 0.7-1.9 ft- Brown coarse sand, saturated	
11				1.9-3.0 ft- Grey silty clay and angular gravel, saturated	
12					
13				0-0.8 ft- Dark brown sand, some angular gravel, little brick fragments, saturated	
14				0.8-1.2 ft- Black silt	
15				1.2-3.4 ft- Grey silty clay and angular gravel	
16					
17					
18					
19					
20					
21					
22					
23					

C&S COMPANIES	C&S Engineers, Inc. 141 Elm Street, Suite 100 Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454	**BORING LOG**	Boring No.	SB-11
			Sheet 1 of:	
			Project No.:	

Project Name:	Marine Drive Apartments - Parking Lot						**Surface Elev.:**		
Location:	90 Erie, Buffalo, NY						**Datum:**		
Client:	The Habitat Company						**Start Date:**	4/11/23	
Drilling Firm:	TREC						**Finish Date:**		
Groundwater	**Depth**	**Date & Time**	**Drill Rig:**				**Inspector:**		
While Drilling:		11:00:00 AM	**Casing:**		**Rock Core:**		**Undist:**		
Before Casing Removal:			**Sampler:**		**Other:**				
After Casing Removal:			**Hammer:**						

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	c - coarse m - medium f - fine **MATERIAL DESCRIPTION** S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey a - and - 35-50% s - some - 20-35% l - little - 10-20% t - trace - 0-10%	**COMMENTS** (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				0-0.2 ft- Asphalt	
					0 ppm
2				0.2-2.0 ft- Brown sand and angular gravel, fill	
3				* Demarcation layer at ~2.0 ft	
					Sample collected at 1-2 ft
4				2.0-3.2 ft- Brown silty clay, trace angular gravel	
5				0-0.7 ft- Brown silty clay, trace angular gravel	
6				0.7-0.9 ft- Sand	
7				0.9-1.7 ft- Brown silty clay	
8					
9				0-0.8 ft- Brown silty clay, moist	
10				0.8-1.6 ft- Brown silty clay	
11					
12					
13				0-0.1 ft- Brown sand and angular gravel, saturated	
14					
15				No Recovery	
16					
17					
18					
19					
20					
21					
22					
23					

C&S Engineers, Inc.
141 Elm Street, Suite 100
Buffalo, New York 14203
Phone: 716-847-1630
Fax: 716-847-1454

BORING LOG

Boring No.	**SB-12**
Sheet 1 of:	
Project No.:	
Surface Elev.:	
Datum:	
Start Date:	4/11/23
Finish Date:	
Inspector:	

Project Name:	Marine Drive Apartments - Parking Lot							
Location:	90 Erie, Buffalo, NY							
Client:	The Habitat Company							
Drilling Firm:	TREC							
Groundwater	**Depth**	**Date & Time**	**Drill Rig:**					
While Drilling:		3:00:00 PM	**Casing:**		**Rock Core:**		**Undist:**	
Before Casing Removal:			**Sampler:**		**Other:**			
After Casing Removal:			**Hammer:**					

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

c - coarse
m - medium
f - fine

MATERIAL DESCRIPTION

S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey

a - and - 35-50%
s - some - 20-35%
l - little - 10-20%
t - trace - 0-10%

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				0-0.2 ft- Asphalt	
					0 ppm
2				0.2-2.1 ft- Brown sand and angular gravel, fill	
3				* Demarcation layer at ~2.1 ft	
					Sample collected at 4-5 ft
4				2.1-2.4 ft- Brown sand and brick fragments	
5				0-1.6 ft- Brick fragments and sand , some angular gravel	Temporary Monitoring
					Well Installed
6					
					Water Level: 8.3 feet bgs
7					
8					
9				0-0.5 ft- Brick fragments and sand	
10				0.5-1.9 ft- Black silt, dense	
11				1.9-2.8 ft- Black silty clay, moist	
12					
13				0-2.4 ft- Grey / brown silty sand, saturated	
14				2.4-4.0 ft- Grey / brown silty sand, moist	
15					
16					
17					
18					
19					
20					
21					
22					
23					

Appendix C
Laboratory Analytical Reports

ANALYTICAL REPORT

Lab Number:	L2319210
Client:	C&S Companies 141 Elm Street, Suite 100 Buffalo, NY 14203
ATTN:	Cody Martin
Phone:	(716) 847-1630
Project Name:	MARINE DRIVE PHASE I
Project Number:	Z31.001.002
Report Date:	04/18/23

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: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2319210-01	SB-01-5-6FT	SOIL	BUFFALO, NY	04/10/23 09:20	04/11/23
L2319210-02	SB-02-4-5FT	SOIL	BUFFALO, NY	04/10/23 10:00	04/11/23
L2319210-03	SB-03-4-5FT	SOIL	BUFFALO, NY	04/10/23 10:30	04/11/23
L2319210-04	SB-05-4-5FT	SOIL	BUFFALO, NY	04/10/23 12:40	04/11/23
L2319210-05	SB-05-7-8FT	SOIL	BUFFALO, NY	04/10/23 12:40	04/11/23
L2319210-06	SB-06-3-4FT	SOIL	BUFFALO, NY	04/10/23 13:15	04/11/23
L2319210-07	SB-07-1-2FT	SOIL	BUFFALO, NY	04/10/23 13:45	04/11/23
L2319210-08	SB-08-8-9FT	SOIL	BUFFALO, NY	04/10/23 14:20	04/11/23
L2319210-09	SB-09-8-9FT	SOIL	BUFFALO, NY	04/11/23 09:30	04/11/23
L2319210-10	SB-10-8-9FT	SOIL	BUFFALO, NY	04/11/23 10:10	04/11/23
L2319210-11	SB-11-1-2FT	SOIL	BUFFALO, NY	04/11/23 11:00	04/11/23
L2319210-12	SB-12-4-5FT	SOIL	BUFFALO, NY	04/10/23 15:00	04/11/23
L2319210-13	TMW-01	WATER	BUFFALO, NY	04/11/23 13:30	04/11/23
L2319210-14	TMW-02	WATER	BUFFALO, NY	04/11/23 14:30	04/11/23
L2319210-15	TRIP BLANK	WATER	BUFFALO, NY	04/11/23 00:00	04/11/23

Project Name:	MARINE DRIVE PHASE I	**Lab Number:**	L2319210
Project Number:	Z31.001.002	**Report Date:**	04/18/23

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:	MARINE DRIVE PHASE I	**Lab Number:**	L2319210
Project Number:	Z31.001.002	**Report Date:**	04/18/23

Case Narrative (continued)

Report Submission

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

Sample Receipt

L2319210-15: A sample identified as "TRIP BLANK" was received, but not listed on the Chain of Custody. This sample was analyzed.

Volatile Organics

Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

Semivolatile Organics

L2319210-11: The sample has elevated detection limits due to limited sample volume available for analysis.

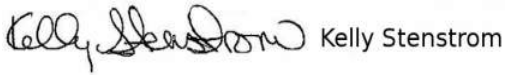
PCBs

L2319210-05: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

Total Metals

L2319210-01 through -13: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

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: 04/18/23

ORGANICS

VOLATILES

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-01
Client ID: SB-01-5-6FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 09:20
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/16/23 15:49
Analyst: AJK
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.12	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	ND		ug/kg	0.50	0.16	1
Toluene	ND		ug/kg	1.0	0.54	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	1.0	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-01 Date Collected: 04/10/23 09:20

Client ID: SB-01-5-6FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.17	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.91	1
Acetone	ND		ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.5	1
2-Butanone	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
Methyl Acetate	ND		ug/kg	4.0	0.95	1
Cyclohexane	ND		ug/kg	10	0.54	1
1,4-Dioxane	ND		ug/kg	80	35.	1
Freon-113	ND		ug/kg	4.0	0.69	1
Methyl cyclohexane	ND		ug/kg	4.0	0.60	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	102		70-130

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-02
Client ID: SB-02-4-5FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 10:00
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/16/23 16:15
Analyst: AJK
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.31	1
Tetrachloroethene	ND		ug/kg	0.57	0.22	1
Chlorobenzene	ND		ug/kg	0.57	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.80	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.57	0.19	1
Bromodichloromethane	ND		ug/kg	0.57	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.57	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.57	0.19	1
Benzene	ND		ug/kg	0.57	0.19	1
Toluene	ND		ug/kg	1.1	0.62	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.67	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-02 Date Collected: 04/10/23 10:00

Client ID: SB-02-4-5FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.5	1
Carbon disulfide	ND		ug/kg	11	5.2	1
2-Butanone	ND		ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.5	1
2-Hexanone	ND		ug/kg	11	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
Methyl Acetate	ND		ug/kg	4.6	1.1	1
Cyclohexane	ND		ug/kg	11	0.62	1
1,4-Dioxane	ND		ug/kg	92	40.	1
Freon-113	ND		ug/kg	4.6	0.79	1
Methyl cyclohexane	ND		ug/kg	4.6	0.69	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	103		70-130

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-03
Client ID: SB-03-4-5FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 10:30
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/16/23 16:40
Analyst: AJK
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.8	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.14	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.31	1
Tetrachloroethene	ND		ug/kg	0.58	0.23	1
Chlorobenzene	ND		ug/kg	0.58	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.81	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	0.19	1
Bromodichloromethane	ND		ug/kg	0.58	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.58	0.18	1
Bromoform	ND		ug/kg	4.6	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.58	0.19	1
Benzene	ND		ug/kg	0.58	0.19	1
Toluene	ND		ug/kg	1.2	0.63	1
Ethylbenzene	0.16	J	ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.68	1
Vinyl chloride	ND		ug/kg	1.2	0.39	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1
Trichloroethene	ND		ug/kg	0.58	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.17	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-03 Date Collected: 04/10/23 10:30

Client ID: SB-03-4-5FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.65	1
o-Xylene	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.6	1
Carbon disulfide	ND		ug/kg	12	5.3	1
2-Butanone	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.32	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.32	1
Methyl Acetate	ND		ug/kg	4.6	1.1	1
Cyclohexane	ND		ug/kg	12	0.63	1
1,4-Dioxane	ND		ug/kg	93	41.	1
Freon-113	ND		ug/kg	4.6	0.81	1
Methyl cyclohexane	ND		ug/kg	4.6	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-04
Client ID: SB-05-4-5FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 12:40
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/16/23 17:05
Analyst: AJK
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.57	0.22	1
Chlorobenzene	ND		ug/kg	0.57	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.79	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.57	0.19	1
Bromodichloromethane	ND		ug/kg	0.57	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.57	0.18	1
Bromoform	ND		ug/kg	4.5	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.57	0.19	1
Benzene	ND		ug/kg	0.57	0.19	1
Toluene	ND		ug/kg	1.1	0.62	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.3	0.66	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1
Trichloroethene	0.18	J	ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-04 Date Collected: 04/10/23 12:40

Client ID: SB-05-4-5FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.63	1
o-Xylene	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	6.0	J	ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.2	1
2-Butanone	ND		ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
Methyl Acetate	ND		ug/kg	4.5	1.1	1
Cyclohexane	ND		ug/kg	11	0.62	1
1,4-Dioxane	ND		ug/kg	91	40.	1
Freon-113	ND		ug/kg	4.5	0.78	1
Methyl cyclohexane	ND		ug/kg	4.5	0.68	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	103		70-130

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-05
Client ID: SB-05-7-8FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 12:40
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/16/23 17:31
Analyst: AJK
Percent Solids: 47%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	9.9	4.5	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.29	1
Chloroform	ND		ug/kg	3.0	0.28	1
Carbon tetrachloride	ND		ug/kg	2.0	0.45	1
1,2-Dichloropropane	ND		ug/kg	2.0	0.25	1
Dibromochloromethane	ND		ug/kg	2.0	0.28	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.53	1
Tetrachloroethene	ND		ug/kg	0.99	0.39	1
Chlorobenzene	ND		ug/kg	0.99	0.25	1
Trichlorofluoromethane	ND		ug/kg	7.9	1.4	1
1,2-Dichloroethane	ND		ug/kg	2.0	0.51	1
1,1,1-Trichloroethane	ND		ug/kg	0.99	0.33	1
Bromodichloromethane	ND		ug/kg	0.99	0.22	1
trans-1,3-Dichloropropene	ND		ug/kg	2.0	0.54	1
cis-1,3-Dichloropropene	ND		ug/kg	0.99	0.31	1
Bromoform	ND		ug/kg	7.9	0.48	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.99	0.33	1
Benzene	ND		ug/kg	0.99	0.33	1
Toluene	ND		ug/kg	2.0	1.1	1
Ethylbenzene	ND		ug/kg	2.0	0.28	1
Chloromethane	ND		ug/kg	7.9	1.8	1
Bromomethane	ND		ug/kg	3.9	1.1	1
Vinyl chloride	ND		ug/kg	2.0	0.66	1
Chloroethane	ND		ug/kg	3.9	0.89	1
1,1-Dichloroethene	ND		ug/kg	2.0	0.47	1
trans-1,2-Dichloroethene	ND		ug/kg	3.0	0.27	1
Trichloroethene	ND		ug/kg	0.99	0.27	1
1,2-Dichlorobenzene	ND		ug/kg	3.9	0.28	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-05 Date Collected: 04/10/23 12:40

Client ID: SB-05-7-8FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.9	0.29	1
1,4-Dichlorobenzene	ND		ug/kg	3.9	0.34	1
Methyl tert butyl ether	ND		ug/kg	3.9	0.40	1
p/m-Xylene	ND		ug/kg	3.9	1.1	1
o-Xylene	ND		ug/kg	2.0	0.57	1
cis-1,2-Dichloroethene	ND		ug/kg	2.0	0.34	1
Styrene	ND		ug/kg	2.0	0.39	1
Dichlorodifluoromethane	ND		ug/kg	20	1.8	1
Acetone	290		ug/kg	20	9.5	1
Carbon disulfide	ND		ug/kg	20	9.0	1
2-Butanone	70		ug/kg	20	4.4	1
4-Methyl-2-pentanone	ND		ug/kg	20	2.5	1
2-Hexanone	ND		ug/kg	20	2.3	1
Bromochloromethane	ND		ug/kg	3.9	0.40	1
1,2-Dibromoethane	ND		ug/kg	2.0	0.55	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.9	2.0	1
Isopropylbenzene	ND		ug/kg	2.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.9	0.64	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.9	0.54	1
Methyl Acetate	ND		ug/kg	7.9	1.9	1
Cyclohexane	ND		ug/kg	20	1.1	1
1,4-Dioxane	ND		ug/kg	160	69.	1
Freon-113	ND		ug/kg	7.9	1.4	1
Methyl cyclohexane	ND		ug/kg	7.9	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	106		70-130

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-06
Client ID: SB-06-3-4FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 13:15
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/16/23 17:56
Analyst: AJK
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	4.7	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.94	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.94	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.94	0.12	1
Dibromochloromethane	ND		ug/kg	0.94	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.94	0.25	1
Tetrachloroethene	ND		ug/kg	0.47	0.18	1
Chlorobenzene	ND		ug/kg	0.47	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.65	1
1,2-Dichloroethane	ND		ug/kg	0.94	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.47	0.16	1
Bromodichloromethane	ND		ug/kg	0.47	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.94	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.47	0.15	1
Bromoform	ND		ug/kg	3.8	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.47	0.16	1
Benzene	ND		ug/kg	0.47	0.16	1
Toluene	ND		ug/kg	0.94	0.51	1
Ethylbenzene	ND		ug/kg	0.94	0.13	1
Chloromethane	ND		ug/kg	3.8	0.88	1
Bromomethane	ND		ug/kg	1.9	0.54	1
Vinyl chloride	ND		ug/kg	0.94	0.31	1
Chloroethane	ND		ug/kg	1.9	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.94	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1
Trichloroethene	4.1		ug/kg	0.47	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-06 Date Collected: 04/10/23 13:15

Client ID: SB-06-3-4FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.52	1
o-Xylene	ND		ug/kg	0.94	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.94	0.16	1
Styrene	ND		ug/kg	0.94	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.4	0.86	1
Acetone	ND		ug/kg	9.4	4.5	1
Carbon disulfide	ND		ug/kg	9.4	4.3	1
2-Butanone	ND		ug/kg	9.4	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.4	1.2	1
2-Hexanone	ND		ug/kg	9.4	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.94	0.26	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.94	1
Isopropylbenzene	ND		ug/kg	0.94	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
Methyl Acetate	ND		ug/kg	3.8	0.89	1
Cyclohexane	ND		ug/kg	9.4	0.51	1
1,4-Dioxane	ND		ug/kg	75	33.	1
Freon-113	ND		ug/kg	3.8	0.65	1
Methyl cyclohexane	ND		ug/kg	3.8	0.57	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	101		70-130

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-07
Client ID: SB-07-1-2FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 13:45
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/16/23 18:22
Analyst: AJK
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.96	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.96	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.96	0.12	1
Dibromochloromethane	ND		ug/kg	0.96	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.96	0.26	1
Tetrachloroethene	ND		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.66	1
1,2-Dichloroethane	ND		ug/kg	0.96	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.96	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.8	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.96	0.52	1
Ethylbenzene	ND		ug/kg	0.96	0.14	1
Chloromethane	ND		ug/kg	3.8	0.89	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.96	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.96	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1
Trichloroethene	ND		ug/kg	0.48	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-07 Date Collected: 04/10/23 13:45

Client ID: SB-07-1-2FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.96	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.96	0.17	1
Styrene	ND		ug/kg	0.96	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.6	0.88	1
Acetone	ND		ug/kg	9.6	4.6	1
Carbon disulfide	ND		ug/kg	9.6	4.4	1
2-Butanone	ND		ug/kg	9.6	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.6	1.2	1
2-Hexanone	ND		ug/kg	9.6	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.96	0.27	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.96	1
Isopropylbenzene	ND		ug/kg	0.96	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
Methyl Acetate	ND		ug/kg	3.8	0.91	1
Cyclohexane	ND		ug/kg	9.6	0.52	1
1,4-Dioxane	ND		ug/kg	77	34.	1
Freon-113	ND		ug/kg	3.8	0.66	1
Methyl cyclohexane	ND		ug/kg	3.8	0.58	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-08
Client ID: SB-08-8-9FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 14:20
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/16/23 18:48
Analyst: AJK
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.12	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	ND		ug/kg	0.50	0.16	1
Toluene	ND		ug/kg	1.0	0.54	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	1.0	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-08 Date Collected: 04/10/23 14:20

Client ID: SB-08-8-9FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.17	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.91	1
Acetone	9.2	J	ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.5	1
2-Butanone	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
Methyl Acetate	ND		ug/kg	4.0	0.95	1
Cyclohexane	ND		ug/kg	10	0.54	1
1,4-Dioxane	ND		ug/kg	80	35.	1
Freon-113	ND		ug/kg	4.0	0.69	1
Methyl cyclohexane	ND		ug/kg	4.0	0.60	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	104		70-130

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-09
Client ID: SB-09-8-9FT
Sample Location: BUFFALO, NY

Date Collected: 04/11/23 09:30
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/16/23 19:15
Analyst: AJK
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.55	0.22	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.77	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1
Trichloroethene	ND		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-09 Date Collected: 04/11/23 09:30

Client ID: SB-09-8-9FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	5.3	J	ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
Methyl Acetate	ND		ug/kg	4.4	1.0	1
Cyclohexane	ND		ug/kg	11	0.60	1
1,4-Dioxane	ND		ug/kg	88	39.	1
Freon-113	ND		ug/kg	4.4	0.76	1
Methyl cyclohexane	ND		ug/kg	4.4	0.66	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	103		70-130

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-10
Client ID: SB-10-8-9FT
Sample Location: BUFFALO, NY

Date Collected: 04/11/23 10:10
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/16/23 19:41
Analyst: AJK
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	0.19	J	ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.96	1
Bromomethane	ND		ug/kg	2.0	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-10 Date Collected: 04/11/23 10:10

Client ID: SB-10-8-9FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.21	1
p/m-Xylene	ND		ug/kg	2.0	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.94	1
Acetone	16		ug/kg	10	5.0	1
Carbon disulfide	5.0	J	ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
Methyl Acetate	ND		ug/kg	4.1	0.98	1
Cyclohexane	ND		ug/kg	10	0.56	1
1,4-Dioxane	ND		ug/kg	82	36.	1
Freon-113	ND		ug/kg	4.1	0.71	1
Methyl cyclohexane	ND		ug/kg	4.1	0.62	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	104		70-130

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-11
Client ID: SB-11-1-2FT
Sample Location: BUFFALO, NY

Date Collected: 04/11/23 11:00
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/16/23 20:08
Analyst: AJK
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.28	1
Tetrachloroethene	ND		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.74	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Bromodichloromethane	ND		ug/kg	0.53	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	0.17	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	0.18	1
Benzene	0.29	J	ug/kg	0.53	0.18	1
Toluene	0.81	J	ug/kg	1.1	0.58	1
Ethylbenzene	0.19	J	ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	0.99	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1
Trichloroethene	ND		ug/kg	0.53	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-11 Date Collected: 04/11/23 11:00

Client ID: SB-11-1-2FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.60	1
o-Xylene	0.31	J	ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.98	1
Acetone	ND		ug/kg	11	5.1	1
Carbon disulfide	ND		ug/kg	11	4.8	1
2-Butanone	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
Methyl Acetate	ND		ug/kg	4.3	1.0	1
Cyclohexane	ND		ug/kg	11	0.58	1
1,4-Dioxane	ND		ug/kg	85	37.	1
Freon-113	ND		ug/kg	4.3	0.74	1
Methyl cyclohexane	ND		ug/kg	4.3	0.64	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-12
Client ID: SB-12-4-5FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 15:00
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/16/23 20:34
Analyst: AJK
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.73	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.97	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-12 Date Collected: 04/10/23 15:00

Client ID: SB-12-4-5FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
Methyl Acetate	ND		ug/kg	4.2	0.99	1
Cyclohexane	ND		ug/kg	10	0.57	1
1,4-Dioxane	ND		ug/kg	84	37.	1
Freon-113	ND		ug/kg	4.2	0.72	1
Methyl cyclohexane	ND		ug/kg	4.2	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	104		70-130

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-13
Client ID: TMW-01
Sample Location: BUFFALO, NY

Date Collected: 04/11/23 13:30
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/14/23 20:17
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-13 Date Collected: 04/11/23 13:30

Client ID: TMW-01 Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	116		70-130

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-14
Client ID: TMW-02
Sample Location: BUFFALO, NY

Date Collected: 04/11/23 14:30
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/14/23 10:59
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-14
Client ID: TMW-02
Sample Location: BUFFALO, NY
Date Collected: 04/11/23 14:30
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	117		70-130

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-15
Client ID: TRIP BLANK
Sample Location: BUFFALO, NY

Date Collected: 04/11/23 00:00
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/15/23 14:40
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-15 Date Collected: 04/11/23 00:00

Client ID: TRIP BLANK Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	116		70-130

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/15/23 12:37
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 15 Batch: WG1767502-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/15/23 12:37
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 15 Batch: WG1767502-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002
Lab Number: L2319210
Report Date: 04/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/15/23 12:37
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 15 Batch: WG1767502-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	114		70-130

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/14/23 19:52
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 13 Batch: WG1767526-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/14/23 19:52
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 13 Batch: WG1767526-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002
Lab Number: L2319210
Report Date: 04/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/14/23 19:52
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 13 Batch: WG1767526-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	116		70-130

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/14/23 08:33
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 14 Batch: WG1767529-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/14/23 08:33
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 14 Batch: WG1767529-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002
Lab Number: L2319210
Report Date: 04/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/14/23 08:33
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 14 Batch: WG1767529-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	114		70-130

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/16/23 14:05
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-12 Batch: WG1767667-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.63	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/16/23 14:05
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-12 Batch: WG1767667-5					
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
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
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
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002
Lab Number: L2319210
Report Date: 04/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/16/23 14:05
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-12 Batch: WG1767667-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 15 Batch: WG1767502-3 WG1767502-4								
Methylene chloride	96		94		70-130	2		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	97		95		70-130	2		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	99		98		70-130	1		20
Dibromochloromethane	83		84		63-130	1		20
1,1,2-Trichloroethane	77		78		70-130	1		20
Tetrachloroethene	89		90		70-130	1		20
Chlorobenzene	88		89		75-130	1		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	99		100		67-130	1		20
Bromodichloromethane	93		94		67-130	1		20
trans-1,3-Dichloropropene	73		74		70-130	1		20
cis-1,3-Dichloropropene	88		88		70-130	0		20
Bromoform	71		72		54-136	1		20
1,1,2,2-Tetrachloroethane	77		76		67-130	1		20
Benzene	95		93		70-130	2		20
Toluene	84		84		70-130	0		20
Ethylbenzene	83		84		70-130	1		20
Chloromethane	120		120		64-130	0		20
Bromomethane	84		83		39-139	1		20
Vinyl chloride	100		100		55-140	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 15 Batch: WG1767502-3 WG1767502-4								
Chloroethane	94		91		55-138	3		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	98		97		70-130	1		20
Trichloroethene	92		92		70-130	0		20
1,2-Dichlorobenzene	87		86		70-130	1		20
1,3-Dichlorobenzene	89		89		70-130	0		20
1,4-Dichlorobenzene	87		88		70-130	1		20
Methyl tert butyl ether	87		89		63-130	2		20
p/m-Xylene	85		85		70-130	0		20
o-Xylene	85		85		70-130	0		20
cis-1,2-Dichloroethene	98		100		70-130	2		20
Styrene	80		80		70-130	0		20
Dichlorodifluoromethane	100		100		36-147	0		20
Acetone	100		110		58-148	10		20
Carbon disulfide	99		99		51-130	0		20
2-Butanone	96		110		63-138	14		20
4-Methyl-2-pentanone	79		84		59-130	6		20
2-Hexanone	72		82		57-130	13		20
Bromochloromethane	100		100		70-130	0		20
1,2-Dibromoethane	80		82		70-130	2		20
1,2-Dibromo-3-chloropropane	77		76		41-144	1		20
Isopropylbenzene	87		87		70-130	0		20
1,2,3-Trichlorobenzene	92		94		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 15 Batch: WG1767502-3 WG1767502-4								
1,2,4-Trichlorobenzene	92		92		70-130	0		20
Methyl Acetate	100		100		70-130	0		20
Cyclohexane	110		110		70-130	0		20
1,4-Dioxane	84		78		56-162	7		20
Freon-113	110		110		70-130	0		20
Methyl cyclohexane	95		96		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		104		70-130
Toluene-d8	91		92		70-130
4-Bromofluorobenzene	92		92		70-130
Dibromofluoromethane	108		107		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13 Batch: WG1767526-3 WG1767526-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	110		100		70-130	10		20
Carbon tetrachloride	120		120		63-132	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	83		84		63-130	1		20
1,1,2-Trichloroethane	77		75		70-130	3		20
Tetrachloroethene	92		88		70-130	4		20
Chlorobenzene	93		93		75-130	0		20
Trichlorofluoromethane	110		120		62-150	9		20
1,2-Dichloroethane	110		100		70-130	10		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	95		96		67-130	1		20
trans-1,3-Dichloropropene	73		74		70-130	1		20
cis-1,3-Dichloropropene	88		90		70-130	2		20
Bromoform	70		72		54-136	3		20
1,1,2,2-Tetrachloroethane	75		77		67-130	3		20
Benzene	99		99		70-130	0		20
Toluene	87		86		70-130	1		20
Ethylbenzene	88		88		70-130	0		20
Chloromethane	130		130		64-130	0		20
Bromomethane	81		83		39-139	2		20
Vinyl chloride	100		100		55-140	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13 Batch: WG1767526-3 WG1767526-4								
Chloroethane	96		97		55-138	1		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	94		96		70-130	2		20
1,2-Dichlorobenzene	90		92		70-130	2		20
1,3-Dichlorobenzene	92		94		70-130	2		20
1,4-Dichlorobenzene	91		93		70-130	2		20
Methyl tert butyl ether	83		86		63-130	4		20
p/m-Xylene	90		90		70-130	0		20
o-Xylene	90		90		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Styrene	85		85		70-130	0		20
Dichlorodifluoromethane	110		110		36-147	0		20
Acetone	110		120		58-148	9		20
Carbon disulfide	100		110		51-130	10		20
2-Butanone	110		110		63-138	0		20
4-Methyl-2-pentanone	79		82		59-130	4		20
2-Hexanone	74		76		57-130	3		20
Bromochloromethane	110		110		70-130	0		20
1,2-Dibromoethane	80		82		70-130	2		20
1,2-Dibromo-3-chloropropane	74		81		41-144	9		20
Isopropylbenzene	92		93		70-130	1		20
1,2,3-Trichlorobenzene	94		94		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13 Batch: WG1767526-3 WG1767526-4								
1,2,4-Trichlorobenzene	96		96		70-130	0		20
Methyl Acetate	100		100		70-130	0		20
Cyclohexane	120		120		70-130	0		20
1,4-Dioxane	80		86		56-162	7		20
Freon-113	110		110		70-130	0		20
Methyl cyclohexane	96		98		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		102		70-130
Toluene-d8	91		91		70-130
4-Bromofluorobenzene	92		94		70-130
Dibromofluoromethane	109		110		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 14 Batch: WG1767529-3 WG1767529-4								
Methylene chloride	96		100		70-130	4		20
1,1-Dichloroethane	100		110		70-130	10		20
Chloroform	95		100		70-130	5		20
Carbon tetrachloride	110		120		63-132	9		20
1,2-Dichloropropane	100		110		70-130	10		20
Dibromochloromethane	89		91		63-130	2		20
1,1,2-Trichloroethane	81		84		70-130	4		20
Tetrachloroethene	94		94		70-130	0		20
Chlorobenzene	90		94		75-130	4		20
Trichlorofluoromethane	100		110		62-150	10		20
1,2-Dichloroethane	100		110		70-130	10		20
1,1,1-Trichloroethane	100		110		67-130	10		20
Bromodichloromethane	92		98		67-130	6		20
trans-1,3-Dichloropropene	78		81		70-130	4		20
cis-1,3-Dichloropropene	91		95		70-130	4		20
Bromoform	74		79		54-136	7		20
1,1,2,2-Tetrachloroethane	76		84		67-130	10		20
Benzene	98		100		70-130	2		20
Toluene	87		89		70-130	2		20
Ethylbenzene	85		89		70-130	5		20
Chloromethane	110		120		64-130	9		20
Bromomethane	68		72		39-139	6		20
Vinyl chloride	94		100		55-140	6		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 14 Batch: WG1767529-3 WG1767529-4								
Chloroethane	87		91		55-138	4		20
1,1-Dichloroethene	99		100		61-145	1		20
trans-1,2-Dichloroethene	97		100		70-130	3		20
Trichloroethene	94		98		70-130	4		20
1,2-Dichlorobenzene	87		93		70-130	7		20
1,3-Dichlorobenzene	89		95		70-130	7		20
1,4-Dichlorobenzene	88		94		70-130	7		20
Methyl tert butyl ether	91		97		63-130	6		20
p/m-Xylene	90		90		70-130	0		20
o-Xylene	85		90		70-130	6		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Styrene	80		85		70-130	6		20
Dichlorodifluoromethane	100		110		36-147	10		20
Acetone	98		100		58-148	2		20
Carbon disulfide	99		100		51-130	1		20
2-Butanone	95		100		63-138	5		20
4-Methyl-2-pentanone	81		90		59-130	11		20
2-Hexanone	74		81		57-130	9		20
Bromochloromethane	100		110		70-130	10		20
1,2-Dibromoethane	85		90		70-130	6		20
1,2-Dibromo-3-chloropropane	78		85		41-144	9		20
Isopropylbenzene	88		93		70-130	6		20
1,2,3-Trichlorobenzene	91		98		70-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 14 Batch: WG1767529-3 WG1767529-4								
1,2,4-Trichlorobenzene	94		99		70-130	5		20
Methyl Acetate	110		110		70-130	0		20
Cyclohexane	110		120		70-130	9		20
1,4-Dioxane	80		88		56-162	10		20
Freon-113	110		110		70-130	0		20
Methyl cyclohexane	96		100		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		102		70-130
Toluene-d8	93		91		70-130
4-Bromofluorobenzene	91		93		70-130
Dibromofluoromethane	104		106		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG1767667-3 WG1767667-4								
Methylene chloride	96		94		70-130	2		30
1,1-Dichloroethane	110		108		70-130	2		30
Chloroform	108		106		70-130	2		30
Carbon tetrachloride	114		111		70-130	3		30
1,2-Dichloropropane	106		105		70-130	1		30
Dibromochloromethane	104		102		70-130	2		30
1,1,2-Trichloroethane	106		106		70-130	0		30
Tetrachloroethene	114		111		70-130	3		30
Chlorobenzene	104		102		70-130	2		30
Trichlorofluoromethane	115		111		70-139	4		30
1,2-Dichloroethane	106		105		70-130	1		30
1,1,1-Trichloroethane	114		113		70-130	1		30
Bromodichloromethane	104		103		70-130	1		30
trans-1,3-Dichloropropene	105		104		70-130	1		30
cis-1,3-Dichloropropene	105		105		70-130	0		30
Bromoform	103		102		70-130	1		30
1,1,2,2-Tetrachloroethane	103		99		70-130	4		30
Benzene	106		104		70-130	2		30
Toluene	104		103		70-130	1		30
Ethylbenzene	107		104		70-130	3		30
Chloromethane	113		108		52-130	5		30
Bromomethane	106		104		57-147	2		30
Vinyl chloride	124		120		67-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG1767667-3 WG1767667-4								
Chloroethane	112		109		50-151	3		30
1,1-Dichloroethene	112		110		65-135	2		30
trans-1,2-Dichloroethene	108		106		70-130	2		30
Trichloroethene	112		112		70-130	0		30
1,2-Dichlorobenzene	101		100		70-130	1		30
1,3-Dichlorobenzene	102		101		70-130	1		30
1,4-Dichlorobenzene	101		101		70-130	0		30
Methyl tert butyl ether	103		102		66-130	1		30
p/m-Xylene	107		104		70-130	3		30
o-Xylene	104		102		70-130	2		30
cis-1,2-Dichloroethene	104		104		70-130	0		30
Styrene	105		103		70-130	2		30
Dichlorodifluoromethane	114		112		30-146	2		30
Acetone	104		103		54-140	1		30
Carbon disulfide	103		101		59-130	2		30
2-Butanone	103		102		70-130	1		30
4-Methyl-2-pentanone	108		106		70-130	2		30
2-Hexanone	108		104		70-130	4		30
Bromochloromethane	107		104		70-130	3		30
1,2-Dibromoethane	106		104		70-130	2		30
1,2-Dibromo-3-chloropropane	91		90		68-130	1		30
Isopropylbenzene	106		104		70-130	2		30
1,2,3-Trichlorobenzene	106		107		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG1767667-3 WG1767667-4								
1,2,4-Trichlorobenzene	105		105		70-130	0		30
Methyl Acetate	102		98		51-146	4		30
Cyclohexane	116		114		59-142	2		30
1,4-Dioxane	98		99		65-136	1		30
Freon-113	117		113		50-139	3		30
Methyl cyclohexane	115		112		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		103		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	96		95		70-130
Dibromofluoromethane	102		100		70-130

SEMIVOLATILES

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-01
Client ID: SB-01-5-6FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 09:20
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/17/23 00:09
Analyst: EK
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 04/15/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	ND		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-01 Date Collected: 04/10/23 09:20

Client ID: SB-01-5-6FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	24.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	900	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Carbazole	ND		ug/kg	190	18.	1
Atrazine	ND		ug/kg	150	66.	1
Benzaldehyde	ND		ug/kg	250	51.	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-01 Date Collected: 04/10/23 09:20

Client ID: SB-01-5-6FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	190	57.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	38.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	76		18-120

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002
Lab Number: L2319210
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-02
Client ID: SB-02-4-5FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 10:00
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/17/23 00:26
Analyst: EK
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 04/15/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	56	J	ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	1400		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	56	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	82	J	ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	660		ug/kg	120	22.	1
Benzo(a)pyrene	660		ug/kg	160	48.	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-02 Date Collected: 04/10/23 10:00

Client ID: SB-02-4-5FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	740		ug/kg	120	34.	1
Benzo(k)fluoranthene	280		ug/kg	120	32.	1
Chrysene	630		ug/kg	120	21.	1
Acenaphthylene	70	J	ug/kg	160	31.	1
Anthracene	200		ug/kg	120	39.	1
Benzo(ghi)perylene	380		ug/kg	160	23.	1
Fluorene	57	J	ug/kg	200	19.	1
Phenanthrene	800		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	100	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	330		ug/kg	160	28.	1
Pyrene	1200		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	26.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	38	J	ug/kg	200	19.	1
2-Methylnaphthalene	48	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	960	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	96.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Carbazole	100	J	ug/kg	200	19.	1
Atrazine	ND		ug/kg	160	70.	1
Benzaldehyde	ND		ug/kg	260	54.	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-02 Date Collected: 04/10/23 10:00

Client ID: SB-02-4-5FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	200	60.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	40.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	71		10-136
4-Terphenyl-d14	84		18-120

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-03 D2
Client ID: SB-03-4-5FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 10:30
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/18/23 07:49
Analyst: JG
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/15/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	190000		ug/kg	5800	1100	50
Phenanthrene	170000		ug/kg	5800	1200	50
Pyrene	160000		ug/kg	5800	960	50

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-03 D
Client ID: SB-03-4-5FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 10:30
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/17/23 00:43
Analyst: EK
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/15/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	13000		ug/kg	1500	200	10
Hexachlorobenzene	ND		ug/kg	1200	220	10
Bis(2-chloroethyl)ether	ND		ug/kg	1700	260	10
2-Chloronaphthalene	ND		ug/kg	1900	190	10
3,3'-Dichlorobenzidine	ND		ug/kg	1900	510	10
2,4-Dinitrotoluene	ND		ug/kg	1900	390	10
2,6-Dinitrotoluene	ND		ug/kg	1900	330	10
Fluoranthene	150000	E	ug/kg	1200	220	10
4-Chlorophenyl phenyl ether	ND		ug/kg	1900	210	10
4-Bromophenyl phenyl ether	ND		ug/kg	1900	300	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2300	330	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2100	190	10
Hexachlorobutadiene	ND		ug/kg	1900	280	10
Hexachlorocyclopentadiene	ND		ug/kg	5500	1800	10
Hexachloroethane	ND		ug/kg	1500	310	10
Isophorone	ND		ug/kg	1700	250	10
Naphthalene	4600		ug/kg	1900	240	10
Nitrobenzene	ND		ug/kg	1700	290	10
NDPA/DPA	ND		ug/kg	1500	220	10
n-Nitrosodi-n-propylamine	ND		ug/kg	1900	300	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1900	670	10
Butyl benzyl phthalate	ND		ug/kg	1900	490	10
Di-n-butylphthalate	ND		ug/kg	1900	370	10
Di-n-octylphthalate	ND		ug/kg	1900	660	10
Diethyl phthalate	ND		ug/kg	1900	180	10
Dimethyl phthalate	ND		ug/kg	1900	400	10
Benzo(a)anthracene	70000		ug/kg	1200	220	10
Benzo(a)pyrene	65000		ug/kg	1500	470	10

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-03 D Date Collected: 04/10/23 10:30
Client ID: SB-03-4-5FT Date Received: 04/11/23
Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	76000		ug/kg	1200	320	10
Benzo(k)fluoranthene	25000		ug/kg	1200	310	10
Chrysene	63000		ug/kg	1200	200	10
Acenaphthylene	2900		ug/kg	1500	300	10
Anthracene	36000		ug/kg	1200	380	10
Benzo(ghi)perylene	40000		ug/kg	1500	230	10
Fluorene	12000		ug/kg	1900	190	10
Phenanthrene	140000	E	ug/kg	1200	240	10
Dibenzo(a,h)anthracene	9400		ug/kg	1200	220	10
Indeno(1,2,3-cd)pyrene	36000		ug/kg	1500	270	10
Pyrene	130000	E	ug/kg	1200	190	10
Biphenyl	880	J	ug/kg	4400	250	10
4-Chloroaniline	ND		ug/kg	1900	350	10
2-Nitroaniline	ND		ug/kg	1900	370	10
3-Nitroaniline	ND		ug/kg	1900	360	10
4-Nitroaniline	ND		ug/kg	1900	800	10
Dibenzofuran	7600		ug/kg	1900	180	10
2-Methylnaphthalene	2600		ug/kg	2300	230	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1900	200	10
Acetophenone	ND		ug/kg	1900	240	10
2,4,6-Trichlorophenol	ND		ug/kg	1200	370	10
p-Chloro-m-cresol	ND		ug/kg	1900	290	10
2-Chlorophenol	ND		ug/kg	1900	230	10
2,4-Dichlorophenol	ND		ug/kg	1700	310	10
2,4-Dimethylphenol	ND		ug/kg	1900	640	10
2-Nitrophenol	ND		ug/kg	4200	730	10
4-Nitrophenol	ND		ug/kg	2700	790	10
2,4-Dinitrophenol	ND		ug/kg	9300	900	10
4,6-Dinitro-o-cresol	ND		ug/kg	5000	930	10
Pentachlorophenol	ND		ug/kg	1500	420	10
Phenol	ND		ug/kg	1900	290	10
2-Methylphenol	ND		ug/kg	1900	300	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	2800	300	10
2,4,5-Trichlorophenol	ND		ug/kg	1900	370	10
Carbazole	18000		ug/kg	1900	190	10
Atrazine	ND		ug/kg	1500	680	10
Benzaldehyde	ND		ug/kg	2600	520	10

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-03 D
Client ID: SB-03-4-5FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 10:30
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	1900	590	10
2,3,4,6-Tetrachlorophenol	ND		ug/kg	1900	390	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	89		18-120

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-04
Client ID: SB-05-4-5FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 12:40
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/17/23 01:00
Analyst: EK
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 04/15/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	93	J	ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-04 Date Collected: 04/10/23 12:40
Client ID: SB-05-4-5FT Date Received: 04/11/23
Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	42	J	ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	38	J	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	26.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	950	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	95.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Carbazole	ND		ug/kg	200	19.	1
Atrazine	ND		ug/kg	160	70.	1
Benzaldehyde	ND		ug/kg	260	54.	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-04 Date Collected: 04/10/23 12:40

Client ID: SB-05-4-5FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	200	60.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	40.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	61		10-136
4-Terphenyl-d14	65		18-120

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002
Lab Number: L2319210
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-05
Client ID: SB-05-7-8FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 12:40
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/17/23 01:17
Analyst: EK
Percent Solids: 47%

Extraction Method: EPA 3546
Extraction Date: 04/15/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	280	36.	1
Hexachlorobenzene	ND		ug/kg	210	40.	1
Bis(2-chloroethyl)ether	ND		ug/kg	320	48.	1
2-Chloronaphthalene	ND		ug/kg	350	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	350	94.	1
2,4-Dinitrotoluene	ND		ug/kg	350	71.	1
2,6-Dinitrotoluene	ND		ug/kg	350	60.	1
Fluoranthene	ND		ug/kg	210	40.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	350	38.	1
4-Bromophenyl phenyl ether	ND		ug/kg	350	54.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	420	60.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	380	35.	1
Hexachlorobutadiene	ND		ug/kg	350	52.	1
Hexachlorocyclopentadiene	ND		ug/kg	1000	320	1
Hexachloroethane	ND		ug/kg	280	57.	1
Isophorone	ND		ug/kg	320	46.	1
Naphthalene	ND		ug/kg	350	43.	1
Nitrobenzene	ND		ug/kg	320	52.	1
NDPA/DPA	ND		ug/kg	280	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	350	54.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	350	120	1
Butyl benzyl phthalate	ND		ug/kg	350	89.	1
Di-n-butylphthalate	ND		ug/kg	350	67.	1
Di-n-octylphthalate	ND		ug/kg	350	120	1
Diethyl phthalate	ND		ug/kg	350	33.	1
Dimethyl phthalate	ND		ug/kg	350	74.	1
Benzo(a)anthracene	ND		ug/kg	210	40.	1
Benzo(a)pyrene	ND		ug/kg	280	86.	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-05 Date Collected: 04/10/23 12:40
Client ID: SB-05-7-8FT Date Received: 04/11/23
Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	210	59.	1
Benzo(k)fluoranthene	ND		ug/kg	210	56.	1
Chrysene	ND		ug/kg	210	37.	1
Acenaphthylene	ND		ug/kg	280	54.	1
Anthracene	ND		ug/kg	210	69.	1
Benzo(ghi)perylene	ND		ug/kg	280	42.	1
Fluorene	ND		ug/kg	350	34.	1
Phenanthrene	46	J	ug/kg	210	43.	1
Dibenzo(a,h)anthracene	ND		ug/kg	210	41.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	280	49.	1
Pyrene	ND		ug/kg	210	35.	1
Biphenyl	ND		ug/kg	800	46.	1
4-Chloroaniline	ND		ug/kg	350	64.	1
2-Nitroaniline	ND		ug/kg	350	68.	1
3-Nitroaniline	ND		ug/kg	350	66.	1
4-Nitroaniline	ND		ug/kg	350	150	1
Dibenzofuran	ND		ug/kg	350	33.	1
2-Methylnaphthalene	ND		ug/kg	420	43.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	350	37.	1
Acetophenone	ND		ug/kg	350	44.	1
2,4,6-Trichlorophenol	ND		ug/kg	210	67.	1
p-Chloro-m-cresol	ND		ug/kg	350	53.	1
2-Chlorophenol	ND		ug/kg	350	42.	1
2,4-Dichlorophenol	ND		ug/kg	320	57.	1
2,4-Dimethylphenol	ND		ug/kg	350	120	1
2-Nitrophenol	ND		ug/kg	760	130	1
4-Nitrophenol	ND		ug/kg	490	140	1
2,4-Dinitrophenol	ND		ug/kg	1700	160	1
4,6-Dinitro-o-cresol	ND		ug/kg	920	170	1
Pentachlorophenol	ND		ug/kg	280	78.	1
Phenol	ND		ug/kg	350	53.	1
2-Methylphenol	ND		ug/kg	350	55.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	510	55.	1
2,4,5-Trichlorophenol	ND		ug/kg	350	68.	1
Carbazole	ND		ug/kg	350	34.	1
Atrazine	ND		ug/kg	280	120	1
Benzaldehyde	ND		ug/kg	470	95.	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-05 Date Collected: 04/10/23 12:40

Client ID: SB-05-7-8FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	350	110	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	350	71.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	64		18-120

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-06
Client ID: SB-06-3-4FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 13:15
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/18/23 12:18
Analyst: IM
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/17/23 18:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	170		ug/kg	150	20.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	4700		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	84	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	2100		ug/kg	110	21.	1
Benzo(a)pyrene	2700		ug/kg	150	46.	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-06 Date Collected: 04/10/23 13:15

Client ID: SB-06-3-4FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	3500		ug/kg	110	32.	1
Benzo(k)fluoranthene	1000		ug/kg	110	30.	1
Chrysene	2300		ug/kg	110	20.	1
Acenaphthylene	77	J	ug/kg	150	29.	1
Anthracene	630		ug/kg	110	37.	1
Benzo(ghi)perylene	2500		ug/kg	150	22.	1
Fluorene	180	J	ug/kg	190	18.	1
Phenanthrene	2700		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	620		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	2300		ug/kg	150	26.	1
Pyrene	3500		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	25.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	110	J	ug/kg	190	18.	1
2-Methylnaphthalene	47	J	ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	910	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Carbazole	700		ug/kg	190	18.	1
Atrazine	ND		ug/kg	150	66.	1
Benzaldehyde	ND		ug/kg	250	51.	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-06 Date Collected: 04/10/23 13:15

Client ID: SB-06-3-4FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	190	58.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	38.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**24**	Q	25-120
Phenol-d6	46		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	20		10-136
4-Terphenyl-d14	64		18-120

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-07
Client ID: SB-07-1-2FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 13:45
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/17/23 01:50
Analyst: EK
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 04/15/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	37	J	ug/kg	150	19.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	860		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	26	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	35.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	410		ug/kg	110	21.	1
Benzo(a)pyrene	400		ug/kg	150	46.	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-07 Date Collected: 04/10/23 13:45

Client ID: SB-07-1-2FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	470		ug/kg	110	31.	1
Benzo(k)fluoranthene	170		ug/kg	110	30.	1
Chrysene	370		ug/kg	110	19.	1
Acenaphthylene	36	J	ug/kg	150	29.	1
Anthracene	140		ug/kg	110	36.	1
Benzo(ghi)perylene	230		ug/kg	150	22.	1
Fluorene	41	J	ug/kg	190	18.	1
Phenanthrene	550		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	67	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	220		ug/kg	150	26.	1
Pyrene	720		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	430	24.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	77.	1
Dibenzofuran	29	J	ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	900	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Carbazole	48	J	ug/kg	190	18.	1
Atrazine	ND		ug/kg	150	65.	1
Benzaldehyde	ND		ug/kg	250	50.	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-07 Date Collected: 04/10/23 13:45

Client ID: SB-07-1-2FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	190	57.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	38.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**22**	Q	25-120
Phenol-d6	56		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	15		10-136
4-Terphenyl-d14	76		18-120

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002
Lab Number: L2319210
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-08
Client ID: SB-08-8-9FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 14:20
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/17/23 02:07
Analyst: EK
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 04/15/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	540		ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	9000	E	ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	300		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	4500		ug/kg	120	22.	1
Benzo(a)pyrene	3900		ug/kg	160	49.	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-08 Date Collected: 04/10/23 14:20
Client ID: SB-08-8-9FT Date Received: 04/11/23
Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	4800		ug/kg	120	34.	1
Benzo(k)fluoranthene	1500		ug/kg	120	32.	1
Chrysene	3900		ug/kg	120	21.	1
Acenaphthylene	490		ug/kg	160	31.	1
Anthracene	1600		ug/kg	120	39.	1
Benzo(ghi)perylene	1900		ug/kg	160	24.	1
Fluorene	570		ug/kg	200	19.	1
Phenanthrene	5100		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	560		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	1900		ug/kg	160	28.	1
Pyrene	7600		ug/kg	120	20.	1
Biphenyl	50	J	ug/kg	460	26.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	83.	1
Dibenzofuran	370		ug/kg	200	19.	1
2-Methylnaphthalene	200	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	960	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	96.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	49	J	ug/kg	290	31.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Carbazole	550		ug/kg	200	19.	1
Atrazine	ND		ug/kg	160	70.	1
Benzaldehyde	ND		ug/kg	260	54.	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-08 Date Collected: 04/10/23 14:20

Client ID: SB-08-8-9FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	200	61.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	40.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	41		10-136
4-Terphenyl-d14	86		18-120

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-08 D
Client ID: SB-08-8-9FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 14:20
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/18/23 04:50
Analyst: JG
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 04/15/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	10000		ug/kg	600	110	5

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-09
Client ID: SB-09-8-9FT
Sample Location: BUFFALO, NY

Date Collected: 04/11/23 09:30
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/17/23 02:24
Analyst: JG
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/15/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	6100		ug/kg	150	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	28000	E	ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	180	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	4700		ug/kg	190	24.	1
Nitrobenzene	ND		ug/kg	170	29.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	41.	1
Benzo(a)anthracene	20000	E	ug/kg	120	22.	1
Benzo(a)pyrene	17000	E	ug/kg	150	47.	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-09 Date Collected: 04/11/23 09:30

Client ID: SB-09-8-9FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	23000	E	ug/kg	120	32.	1
Chrysene	16000	E	ug/kg	120	20.	1
Acenaphthylene	1700		ug/kg	150	30.	1
Anthracene	13000	E	ug/kg	120	38.	1
Benzo(ghi)perylene	8800	E	ug/kg	150	23.	1
Fluorene	7400		ug/kg	190	19.	1
Phenanthrene	29000	E	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	3500		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	8400	E	ug/kg	150	27.	1
Pyrene	26000	E	ug/kg	120	19.	1
Biphenyl	690		ug/kg	440	25.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	5600		ug/kg	190	18.	1
2-Methylnaphthalene	2700		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	110	J	ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	930	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	93.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	160	J	ug/kg	190	29.	1
2-Methylphenol	110	J	ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	310		ug/kg	280	30.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Carbazole	6700		ug/kg	190	19.	1
Atrazine	ND		ug/kg	150	68.	1
Benzaldehyde	ND		ug/kg	260	52.	1
Caprolactam	ND		ug/kg	190	59.	1

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-09
Client ID: SB-09-8-9FT
Sample Location: BUFFALO, NY
Date Collected: 04/11/23 09:30
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	39.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	74		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	97		10-136
4-Terphenyl-d14	81		18-120

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-09 D
Client ID: SB-09-8-9FT
Sample Location: BUFFALO, NY

Date Collected: 04/11/23 09:30
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/18/23 17:14
Analyst: JG
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/15/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	44000		ug/kg	1200	220	10
Benzo(a)anthracene	20000		ug/kg	1200	220	10
Benzo(a)pyrene	15000		ug/kg	1500	470	10
Benzo(b)fluoranthene	18000		ug/kg	1200	320	10
Benzo(k)fluoranthene	6500		ug/kg	1200	310	10
Chrysene	18000		ug/kg	1200	200	10
Anthracene	14000		ug/kg	1200	380	10
Benzo(ghi)perylene	7500		ug/kg	1500	230	10
Phenanthrene	54000		ug/kg	1200	240	10
Indeno(1,2,3-cd)pyrene	8900		ug/kg	1500	270	10
Pyrene	35000		ug/kg	1200	190	10

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-10
Client ID: SB-10-8-9FT
Sample Location: BUFFALO, NY

Date Collected: 04/11/23 10:10
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/17/23 02:41
Analyst: EK
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 04/15/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	86	J	ug/kg	140	18.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	980		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	53	J	ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	210		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	450		ug/kg	100	20.	1
Benzo(a)pyrene	420		ug/kg	140	43.	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-10 Date Collected: 04/11/23 10:10

Client ID: SB-10-8-9FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	490		ug/kg	100	30.	1
Benzo(k)fluoranthene	140		ug/kg	100	28.	1
Chrysene	400		ug/kg	100	18.	1
Acenaphthylene	66	J	ug/kg	140	27.	1
Anthracene	250		ug/kg	100	34.	1
Benzo(ghi)perylene	420		ug/kg	140	21.	1
Fluorene	130	J	ug/kg	180	17.	1
Phenanthrene	840		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	68	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	250		ug/kg	140	24.	1
Pyrene	830		ug/kg	100	18.	1
Biphenyl	ND		ug/kg	400	23.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	75	J	ug/kg	180	17.	1
2-Methylnaphthalene	37	J	ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	84.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	28.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Carbazole	130	J	ug/kg	180	17.	1
Atrazine	ND		ug/kg	140	62.	1
Benzaldehyde	ND		ug/kg	230	48.	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-10 Date Collected: 04/11/23 10:10

Client ID: SB-10-8-9FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	54.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	36.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	35		10-136
4-Terphenyl-d14	76		18-120

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-11
Client ID: SB-11-1-2FT
Sample Location: BUFFALO, NY

Date Collected: 04/11/23 11:00
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/17/23 02:58
Analyst: EK
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 04/15/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	380	J	ug/kg	430	56.	1
Hexachlorobenzene	ND		ug/kg	320	61.	1
Bis(2-chloroethyl)ether	ND		ug/kg	490	73.	1
2-Chloronaphthalene	ND		ug/kg	540	54.	1
3,3'-Dichlorobenzidine	ND		ug/kg	540	140	1
2,4-Dinitrotoluene	ND		ug/kg	540	110	1
2,6-Dinitrotoluene	ND		ug/kg	540	93.	1
Fluoranthene	5200		ug/kg	320	62.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	540	58.	1
4-Bromophenyl phenyl ether	ND		ug/kg	540	83.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	650	92.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	580	54.	1
Hexachlorobutadiene	ND		ug/kg	540	79.	1
Hexachlorocyclopentadiene	ND		ug/kg	1500	490	1
Hexachloroethane	ND		ug/kg	430	88.	1
Isophorone	ND		ug/kg	490	70.	1
Naphthalene	280	J	ug/kg	540	66.	1
Nitrobenzene	ND		ug/kg	490	80.	1
NDPA/DPA	ND		ug/kg	430	62.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	540	84.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	540	190	1
Butyl benzyl phthalate	ND		ug/kg	540	140	1
Di-n-butylphthalate	ND		ug/kg	540	100	1
Di-n-octylphthalate	ND		ug/kg	540	180	1
Diethyl phthalate	ND		ug/kg	540	50.	1
Dimethyl phthalate	ND		ug/kg	540	110	1
Benzo(a)anthracene	2000		ug/kg	320	61.	1
Benzo(a)pyrene	1700		ug/kg	430	130	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-11 Date Collected: 04/11/23 11:00

Client ID: SB-11-1-2FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	2000		ug/kg	320	91.	1
Benzo(k)fluoranthene	660		ug/kg	320	87.	1
Chrysene	1800		ug/kg	320	56.	1
Acenaphthylene	110	J	ug/kg	430	84.	1
Anthracene	1600		ug/kg	320	100	1
Benzo(ghi)perylene	930		ug/kg	430	64.	1
Fluorene	510	J	ug/kg	540	53.	1
Phenanthrene	5600		ug/kg	320	66.	1
Dibenzo(a,h)anthracene	240	J	ug/kg	320	62.	1
Indeno(1,2,3-cd)pyrene	850		ug/kg	430	75.	1
Pyrene	4000		ug/kg	320	54.	1
Biphenyl	77	J	ug/kg	1200	70.	1
4-Chloroaniline	ND		ug/kg	540	98.	1
2-Nitroaniline	ND		ug/kg	540	100	1
3-Nitroaniline	ND		ug/kg	540	100	1
4-Nitroaniline	ND		ug/kg	540	220	1
Dibenzofuran	560		ug/kg	540	51.	1
2-Methylnaphthalene	230	J	ug/kg	650	65.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	540	56.	1
Acetophenone	ND		ug/kg	540	67.	1
2,4,6-Trichlorophenol	ND		ug/kg	320	100	1
p-Chloro-m-cresol	ND		ug/kg	540	81.	1
2-Chlorophenol	ND		ug/kg	540	64.	1
2,4-Dichlorophenol	ND		ug/kg	490	87.	1
2,4-Dimethylphenol	ND		ug/kg	540	180	1
2-Nitrophenol	ND		ug/kg	1200	200	1
4-Nitrophenol	ND		ug/kg	760	220	1
2,4-Dinitrophenol	ND		ug/kg	2600	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	1400	260	1
Pentachlorophenol	ND		ug/kg	430	120	1
Phenol	ND		ug/kg	540	82.	1
2-Methylphenol	ND		ug/kg	540	84.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	780	85.	1
2,4,5-Trichlorophenol	ND		ug/kg	540	100	1
Carbazole	570		ug/kg	540	53.	1
Atrazine	ND		ug/kg	430	190	1
Benzaldehyde	ND		ug/kg	710	150	1

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-11
Client ID: SB-11-1-2FT
Sample Location: BUFFALO, NY
Date Collected: 04/11/23 11:00
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	540	160	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	540	110	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	79		18-120

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002
Lab Number: L2319210
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-12
Client ID: SB-12-4-5FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 15:00
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 04/17/23 03:15
Analyst: EK
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 04/15/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	27	J	ug/kg	150	19.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	420		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	160		ug/kg	110	21.	1
Benzo(a)pyrene	160		ug/kg	150	46.	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-12 Date Collected: 04/10/23 15:00

Client ID: SB-12-4-5FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	170		ug/kg	110	32.	1
Benzo(k)fluoranthene	76	J	ug/kg	110	30.	1
Chrysene	150		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	86	J	ug/kg	110	36.	1
Benzo(ghi)perylene	110	J	ug/kg	150	22.	1
Fluorene	43	J	ug/kg	190	18.	1
Phenanthrene	340		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	95	J	ug/kg	150	26.	1
Pyrene	340		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	24.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	22	J	ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	900	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Carbazole	40	J	ug/kg	190	18.	1
Atrazine	ND		ug/kg	150	66.	1
Benzaldehyde	ND		ug/kg	250	51.	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-12 Date Collected: 04/10/23 15:00

Client ID: SB-12-4-5FT Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	190	57.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	38.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	87		18-120

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-13
Client ID: TMW-01
Sample Location: BUFFALO, NY

Date Collected: 04/11/23 13:30
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 04/14/23 01:36
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 04/13/23 00:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-13 Date Collected: 04/11/23 13:30

Client ID: TMW-01 Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	89		10-120
4-Terphenyl-d14	71		41-149

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-13
Client ID: TMW-01
Sample Location: BUFFALO, NY

Date Collected: 04/11/23 13:30
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 04/13/23 16:19
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 04/13/23 01:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.05	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.04	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.02	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.03	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Chrysene	0.02	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.02	J	ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.04	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.02	J	ug/l	0.10	0.01	1
Pyrene	0.04	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-13 Date Collected: 04/11/23 13:30

Client ID: TMW-01 Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		21-120
Phenol-d6	68		10-120
Nitrobenzene-d5	119		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	89		10-120
4-Terphenyl-d14	96		41-149

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-14
Client ID: TMW-02
Sample Location: BUFFALO, NY

Date Collected: 04/11/23 14:30
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 04/14/23 01:10
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 04/13/23 00:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-14 Date Collected: 04/11/23 14:30

Client ID: TMW-02 Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	94		10-120
4-Terphenyl-d14	69		41-149

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-14
Client ID: TMW-02
Sample Location: BUFFALO, NY

Date Collected: 04/11/23 14:30
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 04/13/23 16:35
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 04/13/23 01:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.02	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.04	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.01	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-14 Date Collected: 04/11/23 14:30

Client ID: TMW-02 Date Received: 04/11/23

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		21-120
Phenol-d6	66		10-120
Nitrobenzene-d5	112		23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	91		10-120
4-Terphenyl-d14	92		41-149

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002
Lab Number: L2319210
Report Date: 04/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/12/23 21:55
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 04/12/23 08:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 13-14 Batch: WG1765706-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002
Lab Number: L2319210
Report Date: 04/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/12/23 21:55
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 04/12/23 08:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 13-14 Batch: WG1765706-1					
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Carbazole	ND		ug/l	2.0	0.49
Atrazine	ND		ug/l	10	0.76
Benzaldehyde	ND		ug/l	5.0	0.53
Caprolactam	ND		ug/l	10	3.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	58		15-120
2,4,6-Tribromophenol	70		10-120
4-Terphenyl-d14	61		41-149

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002
Lab Number: L2319210
Report Date: 04/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 04/13/23 07:52
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 04/12/23 08:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 13-14 Batch: WG1765707-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	0.14	J	ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002
Lab Number: L2319210
Report Date: 04/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 04/13/23 07:52
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 04/12/23 08:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 13-14 Batch: WG1765707-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	87		10-120
4-Terphenyl-d14	77		41-149

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002
Lab Number: L2319210
Report Date: 04/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/16/23 17:41
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 04/15/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05,07-12 Batch: WG1767258-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002
Lab Number: L2319210
Report Date: 04/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/16/23 17:41
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 04/15/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05,07-12 Batch: WG1767258-1					
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002
Lab Number: L2319210
Report Date: 04/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/16/23 17:41
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 04/15/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05,07-12 Batch: WG1767258-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	57.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	81		18-120

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002
Lab Number: L2319210
Report Date: 04/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/18/23 14:41
Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 04/17/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1767814-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002
Lab Number: L2319210
Report Date: 04/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/18/23 14:41
Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 04/17/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1767814-1					
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002
Lab Number: L2319210
Report Date: 04/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 04/18/23 14:41
Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 04/17/23 17:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1767814-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	57.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	60		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	55		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	53		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 13-14 Batch: WG1765706-2 WG1765706-3								
Bis(2-chloroethyl)ether	78		80		40-140	3		30
3,3'-Dichlorobenzidine	**32**	Q	40		40-140	22		30
2,4-Dinitrotoluene	83		95		48-143	13		30
2,6-Dinitrotoluene	75		86		40-140	14		30
4-Chlorophenyl phenyl ether	69		76		40-140	10		30
4-Bromophenyl phenyl ether	72		76		40-140	5		30
Bis(2-chloroisopropyl)ether	81		82		40-140	1		30
Bis(2-chloroethoxy)methane	78		83		40-140	6		30
Hexachlorocyclopentadiene	40		43		40-140	7		30
Isophorone	72		74		40-140	3		30
Nitrobenzene	84		89		40-140	6		30
NDPA/DPA	72		83		40-140	14		30
n-Nitrosodi-n-propylamine	76		79		29-132	4		30
Bis(2-ethylhexyl)phthalate	83		84		40-140	1		30
Butyl benzyl phthalate	87		88		40-140	1		30
Di-n-butylphthalate	78		80		40-140	3		30
Di-n-octylphthalate	82		89		40-140	8		30
Diethyl phthalate	77		82		40-140	6		30
Dimethyl phthalate	73		76		40-140	4		30
Biphenyl	65		68		40-140	5		30
4-Chloroaniline	48		52		40-140	8		30
2-Nitroaniline	83		88		52-143	6		30
3-Nitroaniline	64		73		25-145	13		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002
Lab Number: L2319210
Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 13-14 Batch: WG1765706-2 WG1765706-3								
4-Nitroaniline	82		87		51-143	6		30
Dibenzofuran	73		83		40-140	13		30
1,2,4,5-Tetrachlorobenzene	58		66		2-134	13		30
Acetophenone	67		69		39-129	3		30
2,4,6-Trichlorophenol	75		73		30-130	3		30
p-Chloro-m-cresol	79		88		23-97	11		30
2-Chlorophenol	74		77		27-123	4		30
2,4-Dichlorophenol	72		76		30-130	5		30
2,4-Dimethylphenol	59		41		30-130	**36**	Q	30
2-Nitrophenol	79		77		30-130	3		30
4-Nitrophenol	**95**	Q	**96**	Q	10-80	1		30
2,4-Dinitrophenol	75		79		20-130	5		30
4,6-Dinitro-o-cresol	81		102		20-164	23		30
Phenol	61		61		12-110	0		30
2-Methylphenol	75		71		30-130	5		30
3-Methylphenol/4-Methylphenol	73		78		30-130	7		30
2,4,5-Trichlorophenol	71		73		30-130	3		30
Carbazole	79		86		55-144	8		30
Atrazine	72		80		40-140	11		30
Benzaldehyde	67		71		40-140	6		30
Caprolactam	47		44		10-130	7		30
2,3,4,6-Tetrachlorophenol	79		89		40-140	12		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 13-14 Batch: WG1765706-2 WG1765706-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	67		68		21-120
Phenol-d6	60		62		10-120
Nitrobenzene-d5	80		88		23-120
2-Fluorobiphenyl	67		71		15-120
2,4,6-Tribromophenol	74		91		10-120
4-Terphenyl-d14	71		76		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 13-14 Batch: WG1765707-2 WG1765707-3								
Acenaphthene	76		80		40-140	5		40
2-Chloronaphthalene	74		78		40-140	5		40
Fluoranthene	85		87		40-140	2		40
Hexachlorobutadiene	60		63		40-140	5		40
Naphthalene	70		74		40-140	6		40
Benzo(a)anthracene	94		95		40-140	1		40
Benzo(a)pyrene	87		88		40-140	1		40
Benzo(b)fluoranthene	88		88		40-140	0		40
Benzo(k)fluoranthene	88		89		40-140	1		40
Chrysene	85		86		40-140	1		40
Acenaphthylene	81		86		40-140	6		40
Anthracene	84		88		40-140	5		40
Benzo(ghi)perylene	91		92		40-140	1		40
Fluorene	81		84		40-140	4		40
Phenanthrene	79		81		40-140	3		40
Dibenzo(a,h)anthracene	92		93		40-140	1		40
Indeno(1,2,3-cd)pyrene	98		99		40-140	1		40
Pyrene	83		84		40-140	1		40
2-Methylnaphthalene	72		76		40-140	5		40
Pentachlorophenol	88		92		40-140	4		40
Hexachlorobenzene	66		68		40-140	3		40
Hexachloroethane	65		70		40-140	7		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 13-14 Batch: WG1765707-2 WG1765707-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	72		75		21-120
Phenol-d6	65		67		10-120
Nitrobenzene-d5	88		95		23-120
2-Fluorobiphenyl	72		77		15-120
2,4,6-Tribromophenol	103		104		10-120
4-Terphenyl-d14	74		76		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,07-12 Batch: WG1767258-2 WG1767258-3								
Acenaphthene	72		70		31-137	3		50
Hexachlorobenzene	78		78		40-140	0		50
Bis(2-chloroethyl)ether	67		63		40-140	6		50
2-Chloronaphthalene	72		71		40-140	1		50
3,3'-Dichlorobenzidine	61		72		40-140	17		50
2,4-Dinitrotoluene	76		74		40-132	3		50
2,6-Dinitrotoluene	72		66		40-140	9		50
Fluoranthene	72		72		40-140	0		50
4-Chlorophenyl phenyl ether	73		74		40-140	1		50
4-Bromophenyl phenyl ether	79		77		40-140	3		50
Bis(2-chloroisopropyl)ether	63		61		40-140	3		50
Bis(2-chloroethoxy)methane	68		67		40-117	1		50
Hexachlorobutadiene	73		68		40-140	7		50
Hexachlorocyclopentadiene	**174**	Q	**173**	Q	40-140	1		50
Hexachloroethane	61		58		40-140	5		50
Isophorone	64		64		40-140	0		50
Naphthalene	66		65		40-140	2		50
Nitrobenzene	65		63		40-140	3		50
NDPA/DPA	76		76		36-157	0		50
n-Nitrosodi-n-propylamine	67		67		32-121	0		50
Bis(2-ethylhexyl)phthalate	73		69		40-140	6		50
Butyl benzyl phthalate	71		68		40-140	4		50
Di-n-butylphthalate	71		69		40-140	3		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,07-12 Batch: WG1767258-2 WG1767258-3								
Di-n-octylphthalate	76		71		40-140	7		50
Diethyl phthalate	72		70		40-140	3		50
Dimethyl phthalate	72		68		40-140	6		50
Benzo(a)anthracene	75		76		40-140	1		50
Benzo(a)pyrene	80		92		40-140	14		50
Benzo(b)fluoranthene	75		88		40-140	16		50
Benzo(k)fluoranthene	78		78		40-140	0		50
Chrysene	74		75		40-140	1		50
Acenaphthylene	77		75		40-140	3		50
Anthracene	73		74		40-140	1		50
Benzo(ghi)perylene	80		85		40-140	6		50
Fluorene	72		72		40-140	0		50
Phenanthrene	72		73		40-140	1		50
Dibenzo(a,h)anthracene	76		82		40-140	8		50
Indeno(1,2,3-cd)pyrene	79		84		40-140	6		50
Pyrene	73		72		35-142	1		50
Biphenyl	75		73		37-127	3		50
4-Chloroaniline	49		58		40-140	17		50
2-Nitroaniline	73		70		47-134	4		50
3-Nitroaniline	50		63		26-129	23		50
4-Nitroaniline	78		74		41-125	5		50
Dibenzofuran	74		75		40-140	1		50
2-Methylnaphthalene	74		72		40-140	3		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,07-12 Batch: WG1767258-2 WG1767258-3								
1,2,4,5-Tetrachlorobenzene	74		71		40-117	4		50
Acetophenone	75		73		14-144	3		50
2,4,6-Trichlorophenol	83		82		30-130	1		50
p-Chloro-m-cresol	70		70		26-103	0		50
2-Chlorophenol	70		68		25-102	3		50
2,4-Dichlorophenol	75		74		30-130	1		50
2,4-Dimethylphenol	68		69		30-130	1		50
2-Nitrophenol	71		72		30-130	1		50
4-Nitrophenol	89		85		11-114	5		50
2,4-Dinitrophenol	78		71		4-130	9		50
4,6-Dinitro-o-cresol	82		74		10-130	10		50
Pentachlorophenol	94		92		17-109	2		50
Phenol	69		70		26-90	1		50
2-Methylphenol	67		67		30-130.	0		50
3-Methylphenol/4-Methylphenol	72		69		30-130	4		50
2,4,5-Trichlorophenol	78		75		30-130	4		50
Carbazole	74		74		54-128	0		50
Atrazine	76		70		40-140	8		50
Benzaldehyde	66		66		40-140	0		50
Caprolactam	76		78		15-130	3		50
2,3,4,6-Tetrachlorophenol	78		76		40-140	3		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,07-12 Batch: WG1767258-2 WG1767258-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	76		73		25-120
Phenol-d6	73		72		10-120
Nitrobenzene-d5	66		63		23-120
2-Fluorobiphenyl	76		74		30-120
2,4,6-Tribromophenol	88		86		10-136
4-Terphenyl-d14	80		75		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1767814-2 WG1767814-3								
Acenaphthene	89		83		31-137	7		50
Hexachlorobenzene	106		98		40-140	8		50
Bis(2-chloroethyl)ether	81		74		40-140	9		50
2-Chloronaphthalene	92		84		40-140	9		50
3,3'-Dichlorobenzidine	89		83		40-140	7		50
2,4-Dinitrotoluene	99		90		40-132	10		50
2,6-Dinitrotoluene	93		88		40-140	6		50
Fluoranthene	97		89		40-140	9		50
4-Chlorophenyl phenyl ether	96		89		40-140	8		50
4-Bromophenyl phenyl ether	106		95		40-140	11		50
Bis(2-chloroisopropyl)ether	80		74		40-140	8		50
Bis(2-chloroethoxy)methane	86		80		40-117	7		50
Hexachlorobutadiene	88		82		40-140	7		50
Hexachlorocyclopentadiene	**205**	Q	**196**	Q	40-140	4		50
Hexachloroethane	75		69		40-140	8		50
Isophorone	83		77		40-140	8		50
Naphthalene	82		76		40-140	8		50
Nitrobenzene	82		76		40-140	8		50
NDPA/DPA	99		89		36-157	11		50
n-Nitrosodi-n-propylamine	89		82		32-121	8		50
Bis(2-ethylhexyl)phthalate	97		95		40-140	2		50
Butyl benzyl phthalate	96		91		40-140	5		50
Di-n-butylphthalate	94		92		40-140	2		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1767814-2 WG1767814-3								
Di-n-octylphthalate	99		93		40-140	6		50
Diethyl phthalate	96		89		40-140	8		50
Dimethyl phthalate	94		88		40-140	7		50
Benzo(a)anthracene	100		90		40-140	11		50
Benzo(a)pyrene	110		98		40-140	12		50
Benzo(b)fluoranthene	102		90		40-140	13		50
Benzo(k)fluoranthene	100		96		40-140	4		50
Chrysene	97		90		40-140	7		50
Acenaphthylene	98		93		40-140	5		50
Anthracene	95		88		40-140	8		50
Benzo(ghi)perylene	101		90		40-140	12		50
Fluorene	94		85		40-140	10		50
Phenanthrene	94		86		40-140	9		50
Dibenzo(a,h)anthracene	100		91		40-140	9		50
Indeno(1,2,3-cd)pyrene	102		92		40-140	10		50
Pyrene	97		91		35-142	6		50
Biphenyl	96		90		37-127	6		50
4-Chloroaniline	68		62		40-140	9		50
2-Nitroaniline	97		92		47-134	5		50
3-Nitroaniline	74		71		26-129	4		50
4-Nitroaniline	100		89		41-125	12		50
Dibenzofuran	95		88		40-140	8		50
2-Methylnaphthalene	92		87		40-140	6		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1767814-2 WG1767814-3								
1,2,4,5-Tetrachlorobenzene	97		88		40-117	10		50
Acetophenone	95		86		14-144	10		50
2,4,6-Trichlorophenol	109		100		30-130	9		50
p-Chloro-m-cresol	94		90		26-103	4		50
2-Chlorophenol	86		78		25-102	10		50
2,4-Dichlorophenol	96		91		30-130	5		50
2,4-Dimethylphenol	89		84		30-130	6		50
2-Nitrophenol	94		85		30-130	10		50
4-Nitrophenol	**122**	Q	104		11-114	16		50
2,4-Dinitrophenol	37		36		4-130	3		50
4,6-Dinitro-o-cresol	98		90		10-130	9		50
Pentachlorophenol	102		92		17-109	10		50
Phenol	88		79		26-90	11		50
2-Methylphenol	85		77		30-130.	10		50
3-Methylphenol/4-Methylphenol	88		84		30-130	5		50
2,4,5-Trichlorophenol	103		102		30-130	1		50
Carbazole	97		88		54-128	10		50
Atrazine	97		91		40-140	6		50
Benzaldehyde	80		73		40-140	9		50
Caprolactam	108		100		15-130	8		50
2,3,4,6-Tetrachlorophenol	101		89		40-140	13		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

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

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1767814-2 WG1767814-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	92		88		25-120
Phenol-d6	91		86		10-120
Nitrobenzene-d5	86		79		23-120
2-Fluorobiphenyl	95		91		30-120
2,4,6-Tribromophenol	124		110		10-136
4-Terphenyl-d14	105		99		18-120

PCBS

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-01
Client ID: SB-01-5-6FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 09:20
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/17/23 10:01
Analyst: JM
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 04/16/23 08:54
Cleanup Method: EPA 3665A
Cleanup Date: 04/16/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/17/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.3	3.22	1	A
Aroclor 1221	ND		ug/kg	36.3	3.63	1	A
Aroclor 1232	ND		ug/kg	36.3	7.69	1	A
Aroclor 1242	ND		ug/kg	36.3	4.89	1	A
Aroclor 1248	ND		ug/kg	36.3	5.44	1	A
Aroclor 1254	ND		ug/kg	36.3	3.97	1	A
Aroclor 1260	ND		ug/kg	36.3	6.70	1	A
Aroclor 1262	ND		ug/kg	36.3	4.60	1	A
Aroclor 1268	ND		ug/kg	36.3	3.76	1	A
PCBs, Total	ND		ug/kg	36.3	3.22	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	46		30-150	A
Decachlorobiphenyl	33		30-150	A
2,4,5,6-Tetrachloro-m-xylene	43		30-150	B
Decachlorobiphenyl	40		30-150	B

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-02
Client ID: SB-02-4-5FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 10:00
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/17/23 10:14
Analyst: JM
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 04/16/23 08:54
Cleanup Method: EPA 3665A
Cleanup Date: 04/16/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/17/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.5	3.51	1	A
Aroclor 1221	ND		ug/kg	39.5	3.96	1	A
Aroclor 1232	ND		ug/kg	39.5	8.37	1	A
Aroclor 1242	ND		ug/kg	39.5	5.32	1	A
Aroclor 1248	ND		ug/kg	39.5	5.92	1	A
Aroclor 1254	ND		ug/kg	39.5	4.32	1	A
Aroclor 1260	ND		ug/kg	39.5	7.30	1	A
Aroclor 1262	ND		ug/kg	39.5	5.02	1	A
Aroclor 1268	ND		ug/kg	39.5	4.09	1	A
PCBs, Total	ND		ug/kg	39.5	3.51	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	42		30-150	A
Decachlorobiphenyl	37		30-150	A
2,4,5,6-Tetrachloro-m-xylene	38		30-150	B
Decachlorobiphenyl	42		30-150	B

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-03
Client ID: SB-03-4-5FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 10:30
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/17/23 10:27
Analyst: JM
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/16/23 08:54
Cleanup Method: EPA 3665A
Cleanup Date: 04/16/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/17/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.8	3.45	1	A
Aroclor 1221	ND		ug/kg	38.8	3.89	1	A
Aroclor 1232	ND		ug/kg	38.8	8.23	1	A
Aroclor 1242	ND		ug/kg	38.8	5.23	1	A
Aroclor 1248	ND		ug/kg	38.8	5.82	1	A
Aroclor 1254	ND		ug/kg	38.8	4.25	1	A
Aroclor 1260	ND		ug/kg	38.8	7.18	1	A
Aroclor 1262	ND		ug/kg	38.8	4.93	1	A
Aroclor 1268	ND		ug/kg	38.8	4.02	1	A
PCBs, Total	ND		ug/kg	38.8	3.45	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	46		30-150	A
Decachlorobiphenyl	41		30-150	A
2,4,5,6-Tetrachloro-m-xylene	42		30-150	B
Decachlorobiphenyl	41		30-150	B

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-04
Client ID: SB-05-4-5FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 12:40
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/17/23 10:40
Analyst: JM
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 04/16/23 08:54
Cleanup Method: EPA 3665A
Cleanup Date: 04/16/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/17/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.2	3.48	1	A
Aroclor 1221	ND		ug/kg	39.2	3.93	1	A
Aroclor 1232	ND		ug/kg	39.2	8.32	1	A
Aroclor 1242	ND		ug/kg	39.2	5.29	1	A
Aroclor 1248	ND		ug/kg	39.2	5.88	1	A
Aroclor 1254	ND		ug/kg	39.2	4.29	1	A
Aroclor 1260	ND		ug/kg	39.2	7.25	1	A
Aroclor 1262	ND		ug/kg	39.2	4.98	1	A
Aroclor 1268	ND		ug/kg	39.2	4.06	1	A
PCBs, Total	ND		ug/kg	39.2	3.48	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	42		30-150	A
Decachlorobiphenyl	34		30-150	A
2,4,5,6-Tetrachloro-m-xylene	42		30-150	B
Decachlorobiphenyl	40		30-150	B

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-05
Client ID: SB-05-7-8FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 12:40
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/17/23 10:53
Analyst: JM
Percent Solids: 47%

Extraction Method: EPA 3546
Extraction Date: 04/16/23 08:54
Cleanup Method: EPA 3665A
Cleanup Date: 04/16/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/17/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	191	17.0	1	A
Aroclor 1221	ND		ug/kg	191	19.2	1	A
Aroclor 1232	ND		ug/kg	191	40.5	1	A
Aroclor 1242	ND		ug/kg	191	25.8	1	A
Aroclor 1248	ND		ug/kg	191	28.7	1	A
Aroclor 1254	ND		ug/kg	191	20.9	1	A
Aroclor 1260	ND		ug/kg	191	35.3	1	A
Aroclor 1262	ND		ug/kg	191	24.3	1	A
Aroclor 1268	ND		ug/kg	191	19.8	1	A
PCBs, Total	ND		ug/kg	191	17.0	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	39		30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	45		30-150	B

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-06
Client ID: SB-06-3-4FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 13:15
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/17/23 13:08
Analyst: MEO
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/16/23 08:54
Cleanup Method: EPA 3665A
Cleanup Date: 04/16/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/17/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.0	3.38	1	A
Aroclor 1221	ND		ug/kg	38.0	3.81	1	A
Aroclor 1232	ND		ug/kg	38.0	8.06	1	A
Aroclor 1242	ND		ug/kg	38.0	5.12	1	A
Aroclor 1248	ND		ug/kg	38.0	5.70	1	A
Aroclor 1254	4.61	J	ug/kg	38.0	4.16	1	B
Aroclor 1260	ND		ug/kg	38.0	7.02	1	A
Aroclor 1262	ND		ug/kg	38.0	4.83	1	A
Aroclor 1268	ND		ug/kg	38.0	3.94	1	A
PCBs, Total	4.61	J	ug/kg	38.0	3.38	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	32		30-150	A
Decachlorobiphenyl	33		30-150	A
2,4,5,6-Tetrachloro-m-xylene	31		30-150	B
Decachlorobiphenyl	34		30-150	B

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-07
Client ID: SB-07-1-2FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 13:45
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/17/23 11:18
Analyst: JM
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 04/16/23 08:54
Cleanup Method: EPA 3665A
Cleanup Date: 04/16/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/17/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.6	3.33	1	A
Aroclor 1221	ND		ug/kg	37.6	3.76	1	A
Aroclor 1232	ND		ug/kg	37.6	7.96	1	A
Aroclor 1242	ND		ug/kg	37.6	5.06	1	A
Aroclor 1248	ND		ug/kg	37.6	5.63	1	A
Aroclor 1254	ND		ug/kg	37.6	4.11	1	B
Aroclor 1260	ND		ug/kg	37.6	6.94	1	A
Aroclor 1262	ND		ug/kg	37.6	4.77	1	A
Aroclor 1268	ND		ug/kg	37.6	3.89	1	A
PCBs, Total	ND		ug/kg	37.6	3.33	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-08
Client ID: SB-08-8-9FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 14:20
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/17/23 11:31
Analyst: JM
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 04/16/23 08:54
Cleanup Method: EPA 3665A
Cleanup Date: 04/16/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/17/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.2	3.48	1	A
Aroclor 1221	ND		ug/kg	39.2	3.93	1	A
Aroclor 1232	ND		ug/kg	39.2	8.32	1	A
Aroclor 1242	ND		ug/kg	39.2	5.29	1	A
Aroclor 1248	ND		ug/kg	39.2	5.88	1	A
Aroclor 1254	ND		ug/kg	39.2	4.29	1	A
Aroclor 1260	ND		ug/kg	39.2	7.25	1	A
Aroclor 1262	ND		ug/kg	39.2	4.98	1	A
Aroclor 1268	ND		ug/kg	39.2	4.06	1	A
PCBs, Total	ND		ug/kg	39.2	3.48	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		30-150	A
Decachlorobiphenyl	44		30-150	A
2,4,5,6-Tetrachloro-m-xylene	44		30-150	B
Decachlorobiphenyl	48		30-150	B

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-09
Client ID: SB-09-8-9FT
Sample Location: BUFFALO, NY

Date Collected: 04/11/23 09:30
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/17/23 11:44
Analyst: JM
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/16/23 08:54
Cleanup Method: EPA 3665A
Cleanup Date: 04/16/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/17/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.3	3.40	1	A
Aroclor 1221	ND		ug/kg	38.3	3.84	1	A
Aroclor 1232	ND		ug/kg	38.3	8.12	1	A
Aroclor 1242	ND		ug/kg	38.3	5.16	1	A
Aroclor 1248	ND		ug/kg	38.3	5.75	1	A
Aroclor 1254	ND		ug/kg	38.3	4.19	1	A
Aroclor 1260	ND		ug/kg	38.3	7.08	1	A
Aroclor 1262	ND		ug/kg	38.3	4.87	1	A
Aroclor 1268	ND		ug/kg	38.3	3.97	1	A
PCBs, Total	ND		ug/kg	38.3	3.40	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	48		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-10
Client ID: SB-10-8-9FT
Sample Location: BUFFALO, NY

Date Collected: 04/11/23 10:10
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/17/23 11:57
Analyst: JM
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 04/16/23 08:54
Cleanup Method: EPA 3665A
Cleanup Date: 04/16/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/17/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.5	3.06	1	A
Aroclor 1221	ND		ug/kg	34.5	3.45	1	A
Aroclor 1232	ND		ug/kg	34.5	7.31	1	A
Aroclor 1242	ND		ug/kg	34.5	4.65	1	A
Aroclor 1248	ND		ug/kg	34.5	5.17	1	A
Aroclor 1254	ND		ug/kg	34.5	3.77	1	A
Aroclor 1260	ND		ug/kg	34.5	6.37	1	A
Aroclor 1262	ND		ug/kg	34.5	4.38	1	A
Aroclor 1268	ND		ug/kg	34.5	3.57	1	A
PCBs, Total	ND		ug/kg	34.5	3.06	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		30-150	A
Decachlorobiphenyl	36		30-150	A
2,4,5,6-Tetrachloro-m-xylene	44		30-150	B
Decachlorobiphenyl	39		30-150	B

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-11
Client ID: SB-11-1-2FT
Sample Location: BUFFALO, NY

Date Collected: 04/11/23 11:00
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/17/23 12:10
Analyst: JM
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 04/16/23 08:54
Cleanup Method: EPA 3665A
Cleanup Date: 04/16/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/17/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.2	3.30	1	A
Aroclor 1221	ND		ug/kg	37.2	3.73	1	A
Aroclor 1232	ND		ug/kg	37.2	7.89	1	A
Aroclor 1242	ND		ug/kg	37.2	5.02	1	A
Aroclor 1248	ND		ug/kg	37.2	5.58	1	A
Aroclor 1254	ND		ug/kg	37.2	4.07	1	A
Aroclor 1260	ND		ug/kg	37.2	6.88	1	A
Aroclor 1262	ND		ug/kg	37.2	4.73	1	A
Aroclor 1268	ND		ug/kg	37.2	3.86	1	A
PCBs, Total	ND		ug/kg	37.2	3.30	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	45		30-150	A
Decachlorobiphenyl	32		30-150	A
2,4,5,6-Tetrachloro-m-xylene	42		30-150	B
Decachlorobiphenyl	36		30-150	B

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-12
Client ID: SB-12-4-5FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 15:00
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/17/23 15:03
Analyst: ER
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 04/16/23 08:54
Cleanup Method: EPA 3665A
Cleanup Date: 04/16/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/17/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.4	3.23	1	A
Aroclor 1221	ND		ug/kg	36.4	3.65	1	A
Aroclor 1232	ND		ug/kg	36.4	7.72	1	A
Aroclor 1242	ND		ug/kg	36.4	4.91	1	A
Aroclor 1248	ND		ug/kg	36.4	5.46	1	A
Aroclor 1254	ND		ug/kg	36.4	3.98	1	A
Aroclor 1260	ND		ug/kg	36.4	6.73	1	A
Aroclor 1262	ND		ug/kg	36.4	4.62	1	A
Aroclor 1268	ND		ug/kg	36.4	3.77	1	A
PCBs, Total	ND		ug/kg	36.4	3.23	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	47		30-150	B

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002
Lab Number: L2319210
Report Date: 04/18/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 04/17/23 08:06
Analyst: JM

Extraction Method: EPA 3546
Extraction Date: 04/16/23 08:54
Cleanup Method: EPA 3665A
Cleanup Date: 04/16/23
Cleanup Method: EPA 3660B
Cleanup Date: 04/17/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-12 Batch: WG1767301-1						
Aroclor 1016	ND		ug/kg	32.3	2.87	A
Aroclor 1221	ND		ug/kg	32.3	3.24	A
Aroclor 1232	ND		ug/kg	32.3	6.85	A
Aroclor 1242	ND		ug/kg	32.3	4.35	A
Aroclor 1248	ND		ug/kg	32.3	4.84	A
Aroclor 1254	ND		ug/kg	32.3	3.53	A
Aroclor 1260	ND		ug/kg	32.3	5.97	A
Aroclor 1262	ND		ug/kg	32.3	4.10	A
Aroclor 1268	ND		ug/kg	32.3	3.35	A
PCBs, Total	ND		ug/kg	32.3	2.87	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	71		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-12 Batch: WG1767301-2 WG1767301-3									
Aroclor 1016	70		68		40-140	3		50	A
Aroclor 1260	70		69		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		68		30-150	A
Decachlorobiphenyl	77		75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		64		30-150	B
Decachlorobiphenyl	76		74		30-150	B

METALS

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-01
Client ID: SB-01-5-6FT
Sample Location: BUFFALO, NY
Date Collected: 04/10/23 09:20
Date Received: 04/11/23
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											
Aluminum, Total	3260		mg/kg	8.78	2.37	2	04/15/23 08:50	04/17/23 10:27	EPA 3050B	1,6010D	DMB
Antimony, Total	0.577	J	mg/kg	4.39	0.334	2	04/15/23 08:50	04/17/23 10:27	EPA 3050B	1,6010D	DMB
Arsenic, Total	4.16		mg/kg	0.878	0.183	2	04/15/23 08:50	04/17/23 10:27	EPA 3050B	1,6010D	DMB
Barium, Total	56.5		mg/kg	0.878	0.153	2	04/15/23 08:50	04/17/23 10:27	EPA 3050B	1,6010D	DMB
Beryllium, Total	0.184	J	mg/kg	0.439	0.029	2	04/15/23 08:50	04/17/23 10:27	EPA 3050B	1,6010D	DMB
Cadmium, Total	ND		mg/kg	0.878	0.086	2	04/15/23 08:50	04/17/23 10:27	EPA 3050B	1,6010D	DMB
Calcium, Total	30700		mg/kg	8.78	3.07	2	04/15/23 08:50	04/17/23 10:27	EPA 3050B	1,6010D	DMB
Chromium, Total	4.34		mg/kg	0.878	0.084	2	04/15/23 08:50	04/17/23 10:27	EPA 3050B	1,6010D	DMB
Cobalt, Total	2.55		mg/kg	1.76	0.146	2	04/15/23 08:50	04/17/23 10:27	EPA 3050B	1,6010D	DMB
Copper, Total	24.4		mg/kg	0.878	0.227	2	04/15/23 08:50	04/17/23 10:27	EPA 3050B	1,6010D	DMB
Iron, Total	6280		mg/kg	4.39	0.793	2	04/15/23 08:50	04/17/23 10:27	EPA 3050B	1,6010D	DMB
Lead, Total	132		mg/kg	4.39	0.235	2	04/15/23 08:50	04/17/23 10:27	EPA 3050B	1,6010D	DMB
Magnesium, Total	7980		mg/kg	8.78	1.35	2	04/15/23 08:50	04/17/23 10:27	EPA 3050B	1,6010D	DMB
Manganese, Total	188		mg/kg	0.878	0.140	2	04/15/23 08:50	04/17/23 10:27	EPA 3050B	1,6010D	DMB
Mercury, Total	1.29		mg/kg	0.071	0.046	1	04/15/23 09:30	04/15/23 13:40	EPA 7471B	1,7471B	DJR
Nickel, Total	6.30		mg/kg	2.20	0.213	2	04/15/23 08:50	04/17/23 10:27	EPA 3050B	1,6010D	DMB
Potassium, Total	434		mg/kg	220	12.6	2	04/15/23 08:50	04/17/23 10:27	EPA 3050B	1,6010D	DMB
Selenium, Total	0.243	J	mg/kg	1.76	0.227	2	04/15/23 08:50	04/17/23 10:27	EPA 3050B	1,6010D	DMB
Silver, Total	ND		mg/kg	0.439	0.249	2	04/15/23 08:50	04/17/23 10:27	EPA 3050B	1,6010D	DMB
Sodium, Total	1200		mg/kg	176	2.77	2	04/15/23 08:50	04/17/23 10:27	EPA 3050B	1,6010D	DMB
Thallium, Total	ND		mg/kg	1.76	0.277	2	04/15/23 08:50	04/17/23 10:27	EPA 3050B	1,6010D	DMB
Vanadium, Total	7.51		mg/kg	0.878	0.178	2	04/15/23 08:50	04/17/23 10:27	EPA 3050B	1,6010D	DMB
Zinc, Total	53.5		mg/kg	4.39	0.257	2	04/15/23 08:50	04/17/23 10:27	EPA 3050B	1,6010D	DMB

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-02
Client ID: SB-02-4-5FT
Sample Location: BUFFALO, NY
Date Collected: 04/10/23 10:00
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	36200		mg/kg	9.37	2.53	2	04/15/23 08:50	04/17/23 10:31	EPA 3050B	1,6010D	DMB
Antimony, Total	1.44	J	mg/kg	4.68	0.356	2	04/15/23 08:50	04/17/23 10:31	EPA 3050B	1,6010D	DMB
Arsenic, Total	3.52		mg/kg	0.937	0.195	2	04/15/23 08:50	04/17/23 10:31	EPA 3050B	1,6010D	DMB
Barium, Total	269		mg/kg	0.937	0.163	2	04/15/23 08:50	04/17/23 10:31	EPA 3050B	1,6010D	DMB
Beryllium, Total	4.66		mg/kg	0.468	0.031	2	04/15/23 08:50	04/17/23 10:31	EPA 3050B	1,6010D	DMB
Cadmium, Total	ND		mg/kg	0.937	0.092	2	04/15/23 08:50	04/17/23 10:31	EPA 3050B	1,6010D	DMB
Calcium, Total	205000		mg/kg	46.8	16.4	10	04/15/23 08:50	04/17/23 12:39	EPA 3050B	1,6010D	DMB
Chromium, Total	8.44		mg/kg	0.937	0.090	2	04/15/23 08:50	04/17/23 10:31	EPA 3050B	1,6010D	DMB
Cobalt, Total	ND		mg/kg	1.87	0.156	2	04/15/23 08:50	04/17/23 10:31	EPA 3050B	1,6010D	DMB
Copper, Total	5.48		mg/kg	0.937	0.242	2	04/15/23 08:50	04/17/23 10:31	EPA 3050B	1,6010D	DMB
Iron, Total	19300		mg/kg	4.68	0.846	2	04/15/23 08:50	04/17/23 10:31	EPA 3050B	1,6010D	DMB
Lead, Total	7.61		mg/kg	4.68	0.251	2	04/15/23 08:50	04/17/23 10:31	EPA 3050B	1,6010D	DMB
Magnesium, Total	11400		mg/kg	9.37	1.44	2	04/15/23 08:50	04/17/23 10:31	EPA 3050B	1,6010D	DMB
Manganese, Total	5500		mg/kg	0.937	0.149	2	04/15/23 08:50	04/17/23 10:31	EPA 3050B	1,6010D	DMB
Mercury, Total	ND		mg/kg	0.077	0.050	1	04/15/23 09:30	04/15/23 13:43	EPA 7471B	1,7471B	DJR
Nickel, Total	1.09	J	mg/kg	2.34	0.227	2	04/15/23 08:50	04/17/23 10:31	EPA 3050B	1,6010D	DMB
Potassium, Total	2060		mg/kg	234	13.5	2	04/15/23 08:50	04/17/23 10:31	EPA 3050B	1,6010D	DMB
Selenium, Total	1.54	J	mg/kg	1.87	0.242	2	04/15/23 08:50	04/17/23 10:31	EPA 3050B	1,6010D	DMB
Silver, Total	ND		mg/kg	0.468	0.265	2	04/15/23 08:50	04/17/23 10:31	EPA 3050B	1,6010D	DMB
Sodium, Total	1390		mg/kg	187	2.95	2	04/15/23 08:50	04/17/23 10:31	EPA 3050B	1,6010D	DMB
Thallium, Total	ND		mg/kg	1.87	0.295	2	04/15/23 08:50	04/17/23 10:31	EPA 3050B	1,6010D	DMB
Vanadium, Total	8.58		mg/kg	0.937	0.190	2	04/15/23 08:50	04/17/23 10:31	EPA 3050B	1,6010D	DMB
Zinc, Total	2.24	J	mg/kg	4.68	0.274	2	04/15/23 08:50	04/17/23 10:31	EPA 3050B	1,6010D	DMB

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-03
Client ID: SB-03-4-5FT
Sample Location: BUFFALO, NY
Date Collected: 04/10/23 10:30
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	17200		mg/kg	9.18	2.48	2	04/15/23 08:50	04/17/23 10:37	EPA 3050B	1,6010D	DMB
Antimony, Total	0.464	J	mg/kg	4.59	0.349	2	04/15/23 08:50	04/17/23 10:37	EPA 3050B	1,6010D	DMB
Arsenic, Total	8.39		mg/kg	0.918	0.191	2	04/15/23 08:50	04/17/23 10:37	EPA 3050B	1,6010D	DMB
Barium, Total	248		mg/kg	0.918	0.160	2	04/15/23 08:50	04/17/23 10:37	EPA 3050B	1,6010D	DMB
Beryllium, Total	1.92		mg/kg	0.459	0.030	2	04/15/23 08:50	04/17/23 10:37	EPA 3050B	1,6010D	DMB
Cadmium, Total	0.197	J	mg/kg	0.918	0.090	2	04/15/23 08:50	04/17/23 10:37	EPA 3050B	1,6010D	DMB
Calcium, Total	148000		mg/kg	45.9	16.1	10	04/15/23 08:50	04/17/23 12:44	EPA 3050B	1,6010D	DMB
Chromium, Total	27.7		mg/kg	0.918	0.088	2	04/15/23 08:50	04/17/23 10:37	EPA 3050B	1,6010D	DMB
Cobalt, Total	2.43		mg/kg	1.84	0.152	2	04/15/23 08:50	04/17/23 10:37	EPA 3050B	1,6010D	DMB
Copper, Total	16.6		mg/kg	0.918	0.237	2	04/15/23 08:50	04/17/23 10:37	EPA 3050B	1,6010D	DMB
Iron, Total	24900		mg/kg	4.59	0.829	2	04/15/23 08:50	04/17/23 10:37	EPA 3050B	1,6010D	DMB
Lead, Total	456		mg/kg	4.59	0.246	2	04/15/23 08:50	04/17/23 10:37	EPA 3050B	1,6010D	DMB
Magnesium, Total	11500		mg/kg	9.18	1.41	2	04/15/23 08:50	04/17/23 10:37	EPA 3050B	1,6010D	DMB
Manganese, Total	2370		mg/kg	0.918	0.146	2	04/15/23 08:50	04/17/23 10:37	EPA 3050B	1,6010D	DMB
Mercury, Total	0.085		mg/kg	0.074	0.048	1	04/15/23 09:30	04/15/23 13:53	EPA 7471B	1,7471B	DJR
Nickel, Total	18.7		mg/kg	2.29	0.222	2	04/15/23 08:50	04/17/23 10:37	EPA 3050B	1,6010D	DMB
Potassium, Total	1440		mg/kg	229	13.2	2	04/15/23 08:50	04/17/23 10:37	EPA 3050B	1,6010D	DMB
Selenium, Total	0.709	J	mg/kg	1.84	0.237	2	04/15/23 08:50	04/17/23 10:37	EPA 3050B	1,6010D	DMB
Silver, Total	ND		mg/kg	0.459	0.260	2	04/15/23 08:50	04/17/23 10:37	EPA 3050B	1,6010D	DMB
Sodium, Total	1390		mg/kg	184	2.89	2	04/15/23 08:50	04/17/23 10:37	EPA 3050B	1,6010D	DMB
Thallium, Total	ND		mg/kg	1.84	0.289	2	04/15/23 08:50	04/17/23 10:37	EPA 3050B	1,6010D	DMB
Vanadium, Total	17.8		mg/kg	0.918	0.186	2	04/15/23 08:50	04/17/23 10:37	EPA 3050B	1,6010D	DMB
Zinc, Total	231		mg/kg	4.59	0.269	2	04/15/23 08:50	04/17/23 10:37	EPA 3050B	1,6010D	DMB

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-04
Client ID: SB-05-4-5FT
Sample Location: BUFFALO, NY
Date Collected: 04/10/23 12:40
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4630		mg/kg	9.42	2.54	2	04/15/23 08:50	04/17/23 10:43	EPA 3050B	1,6010D	DMB
Antimony, Total	ND		mg/kg	4.71	0.358	2	04/15/23 08:50	04/17/23 10:43	EPA 3050B	1,6010D	DMB
Arsenic, Total	3.53		mg/kg	0.942	0.196	2	04/15/23 08:50	04/17/23 10:43	EPA 3050B	1,6010D	DMB
Barium, Total	35.4		mg/kg	0.942	0.164	2	04/15/23 08:50	04/17/23 10:43	EPA 3050B	1,6010D	DMB
Beryllium, Total	0.269	J	mg/kg	0.471	0.031	2	04/15/23 08:50	04/17/23 10:43	EPA 3050B	1,6010D	DMB
Cadmium, Total	ND		mg/kg	0.942	0.092	2	04/15/23 08:50	04/17/23 10:43	EPA 3050B	1,6010D	DMB
Calcium, Total	72600		mg/kg	47.1	16.5	10	04/15/23 08:50	04/17/23 12:48	EPA 3050B	1,6010D	DMB
Chromium, Total	6.12		mg/kg	0.942	0.090	2	04/15/23 08:50	04/17/23 10:43	EPA 3050B	1,6010D	DMB
Cobalt, Total	3.16		mg/kg	1.88	0.156	2	04/15/23 08:50	04/17/23 10:43	EPA 3050B	1,6010D	DMB
Copper, Total	16.7		mg/kg	0.942	0.243	2	04/15/23 08:50	04/17/23 10:43	EPA 3050B	1,6010D	DMB
Iron, Total	7250		mg/kg	4.71	0.850	2	04/15/23 08:50	04/17/23 10:43	EPA 3050B	1,6010D	DMB
Lead, Total	85.0		mg/kg	4.71	0.252	2	04/15/23 08:50	04/17/23 10:43	EPA 3050B	1,6010D	DMB
Magnesium, Total	25600		mg/kg	9.42	1.45	2	04/15/23 08:50	04/17/23 10:43	EPA 3050B	1,6010D	DMB
Manganese, Total	273		mg/kg	0.942	0.150	2	04/15/23 08:50	04/17/23 10:43	EPA 3050B	1,6010D	DMB
Mercury, Total	0.311		mg/kg	0.077	0.050	1	04/15/23 09:30	04/15/23 13:56	EPA 7471B	1,7471B	DJR
Nickel, Total	8.44		mg/kg	2.35	0.228	2	04/15/23 08:50	04/17/23 10:43	EPA 3050B	1,6010D	DMB
Potassium, Total	722		mg/kg	235	13.6	2	04/15/23 08:50	04/17/23 10:43	EPA 3050B	1,6010D	DMB
Selenium, Total	ND		mg/kg	1.88	0.243	2	04/15/23 08:50	04/17/23 10:43	EPA 3050B	1,6010D	DMB
Silver, Total	ND		mg/kg	0.471	0.266	2	04/15/23 08:50	04/17/23 10:43	EPA 3050B	1,6010D	DMB
Sodium, Total	693		mg/kg	188	2.97	2	04/15/23 08:50	04/17/23 10:43	EPA 3050B	1,6010D	DMB
Thallium, Total	ND		mg/kg	1.88	0.297	2	04/15/23 08:50	04/17/23 10:43	EPA 3050B	1,6010D	DMB
Vanadium, Total	8.53		mg/kg	0.942	0.191	2	04/15/23 08:50	04/17/23 10:43	EPA 3050B	1,6010D	DMB
Zinc, Total	41.4		mg/kg	4.71	0.276	2	04/15/23 08:50	04/17/23 10:43	EPA 3050B	1,6010D	DMB

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-05
Client ID: SB-05-7-8FT
Sample Location: BUFFALO, NY
Date Collected: 04/10/23 12:40
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 47%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2880		mg/kg	16.3	4.40	2	04/15/23 08:50	04/17/23 10:48	EPA 3050B	1,6010D	DMB
Antimony, Total	ND		mg/kg	8.15	0.619	2	04/15/23 08:50	04/17/23 10:48	EPA 3050B	1,6010D	DMB
Arsenic, Total	4.32		mg/kg	1.63	0.339	2	04/15/23 08:50	04/17/23 10:48	EPA 3050B	1,6010D	DMB
Barium, Total	79.3		mg/kg	1.63	0.284	2	04/15/23 08:50	04/17/23 10:48	EPA 3050B	1,6010D	DMB
Beryllium, Total	0.152	J	mg/kg	0.815	0.054	2	04/15/23 08:50	04/17/23 10:48	EPA 3050B	1,6010D	DMB
Cadmium, Total	ND		mg/kg	1.63	0.160	2	04/15/23 08:50	04/17/23 10:48	EPA 3050B	1,6010D	DMB
Calcium, Total	65300		mg/kg	16.3	5.70	2	04/15/23 08:50	04/17/23 10:48	EPA 3050B	1,6010D	DMB
Chromium, Total	8.17		mg/kg	1.63	0.156	2	04/15/23 08:50	04/17/23 10:48	EPA 3050B	1,6010D	DMB
Cobalt, Total	2.02	J	mg/kg	3.26	0.270	2	04/15/23 08:50	04/17/23 10:48	EPA 3050B	1,6010D	DMB
Copper, Total	10.4		mg/kg	1.63	0.420	2	04/15/23 08:50	04/17/23 10:48	EPA 3050B	1,6010D	DMB
Iron, Total	6000		mg/kg	8.15	1.47	2	04/15/23 08:50	04/17/23 10:48	EPA 3050B	1,6010D	DMB
Lead, Total	25.5		mg/kg	8.15	0.437	2	04/15/23 08:50	04/17/23 10:48	EPA 3050B	1,6010D	DMB
Magnesium, Total	12700		mg/kg	16.3	2.51	2	04/15/23 08:50	04/17/23 10:48	EPA 3050B	1,6010D	DMB
Manganese, Total	141		mg/kg	1.63	0.259	2	04/15/23 08:50	04/17/23 10:48	EPA 3050B	1,6010D	DMB
Mercury, Total	0.099	J	mg/kg	0.136	0.089	1	04/15/23 09:30	04/15/23 14:00	EPA 7471B	1,7471B	DJR
Nickel, Total	6.91		mg/kg	4.07	0.394	2	04/15/23 08:50	04/17/23 10:48	EPA 3050B	1,6010D	DMB
Potassium, Total	541		mg/kg	407	23.5	2	04/15/23 08:50	04/17/23 10:48	EPA 3050B	1,6010D	DMB
Selenium, Total	1.36	J	mg/kg	3.26	0.420	2	04/15/23 08:50	04/17/23 10:48	EPA 3050B	1,6010D	DMB
Silver, Total	ND		mg/kg	0.815	0.461	2	04/15/23 08:50	04/17/23 10:48	EPA 3050B	1,6010D	DMB
Sodium, Total	2370		mg/kg	326	5.13	2	04/15/23 08:50	04/17/23 10:48	EPA 3050B	1,6010D	DMB
Thallium, Total	ND		mg/kg	3.26	0.513	2	04/15/23 08:50	04/17/23 10:48	EPA 3050B	1,6010D	DMB
Vanadium, Total	9.16		mg/kg	1.63	0.331	2	04/15/23 08:50	04/17/23 10:48	EPA 3050B	1,6010D	DMB
Zinc, Total	23.2		mg/kg	8.15	0.478	2	04/15/23 08:50	04/17/23 10:48	EPA 3050B	1,6010D	DMB

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-06
Client ID: SB-06-3-4FT
Sample Location: BUFFALO, NY
Date Collected: 04/10/23 13:15
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	28400		mg/kg	8.81	2.38	2	04/15/23 08:50	04/17/23 10:53	EPA 3050B	1,6010D	DMB
Antimony, Total	ND		mg/kg	4.40	0.335	2	04/15/23 08:50	04/17/23 10:53	EPA 3050B	1,6010D	DMB
Arsenic, Total	4.60		mg/kg	0.881	0.183	2	04/15/23 08:50	04/17/23 10:53	EPA 3050B	1,6010D	DMB
Barium, Total	261		mg/kg	0.881	0.153	2	04/15/23 08:50	04/17/23 10:53	EPA 3050B	1,6010D	DMB
Beryllium, Total	3.44		mg/kg	0.440	0.029	2	04/15/23 08:50	04/17/23 10:53	EPA 3050B	1,6010D	DMB
Cadmium, Total	16.3		mg/kg	0.881	0.086	2	04/15/23 08:50	04/17/23 10:53	EPA 3050B	1,6010D	DMB
Calcium, Total	160000		mg/kg	44.0	15.4	10	04/15/23 08:50	04/17/23 13:23	EPA 3050B	1,6010D	DMB
Chromium, Total	1280		mg/kg	0.881	0.085	2	04/15/23 08:50	04/17/23 10:53	EPA 3050B	1,6010D	DMB
Cobalt, Total	3.41		mg/kg	1.76	0.146	2	04/15/23 08:50	04/17/23 10:53	EPA 3050B	1,6010D	DMB
Copper, Total	56.2		mg/kg	0.881	0.227	2	04/15/23 08:50	04/17/23 10:53	EPA 3050B	1,6010D	DMB
Iron, Total	10500		mg/kg	4.40	0.796	2	04/15/23 08:50	04/17/23 10:53	EPA 3050B	1,6010D	DMB
Lead, Total	68.5		mg/kg	4.40	0.236	2	04/15/23 08:50	04/17/23 10:53	EPA 3050B	1,6010D	DMB
Magnesium, Total	11400		mg/kg	8.81	1.36	2	04/15/23 08:50	04/17/23 10:53	EPA 3050B	1,6010D	DMB
Manganese, Total	3170		mg/kg	0.881	0.140	2	04/15/23 08:50	04/17/23 10:53	EPA 3050B	1,6010D	DMB
Mercury, Total	0.524		mg/kg	0.075	0.049	1	04/15/23 09:30	04/15/23 14:03	EPA 7471B	1,7471B	DJR
Nickel, Total	37.2		mg/kg	2.20	0.213	2	04/15/23 08:50	04/17/23 10:53	EPA 3050B	1,6010D	DMB
Potassium, Total	1670		mg/kg	220	12.7	2	04/15/23 08:50	04/17/23 10:53	EPA 3050B	1,6010D	DMB
Selenium, Total	2.58		mg/kg	1.76	0.227	2	04/15/23 08:50	04/17/23 10:53	EPA 3050B	1,6010D	DMB
Silver, Total	ND		mg/kg	0.440	0.249	2	04/15/23 08:50	04/17/23 10:53	EPA 3050B	1,6010D	DMB
Sodium, Total	1580		mg/kg	176	2.78	2	04/15/23 08:50	04/17/23 10:53	EPA 3050B	1,6010D	DMB
Thallium, Total	ND		mg/kg	1.76	0.278	2	04/15/23 08:50	04/17/23 10:53	EPA 3050B	1,6010D	DMB
Vanadium, Total	8.31		mg/kg	0.881	0.179	2	04/15/23 08:50	04/17/23 10:53	EPA 3050B	1,6010D	DMB
Zinc, Total	1600		mg/kg	4.40	0.258	2	04/15/23 08:50	04/17/23 10:53	EPA 3050B	1,6010D	DMB

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-07
Client ID: SB-07-1-2FT
Sample Location: BUFFALO, NY
Date Collected: 04/10/23 13:45
Date Received: 04/11/23
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											
Aluminum, Total	33300		mg/kg	8.75	2.36	2	04/15/23 08:50	04/17/23 10:58	EPA 3050B	1,6010D	DMB
Antimony, Total	0.765	J	mg/kg	4.37	0.332	2	04/15/23 08:50	04/17/23 10:58	EPA 3050B	1,6010D	DMB
Arsenic, Total	4.07		mg/kg	0.875	0.182	2	04/15/23 08:50	04/17/23 10:58	EPA 3050B	1,6010D	DMB
Barium, Total	247		mg/kg	0.875	0.152	2	04/15/23 08:50	04/17/23 10:58	EPA 3050B	1,6010D	DMB
Beryllium, Total	4.23		mg/kg	0.437	0.029	2	04/15/23 08:50	04/17/23 10:58	EPA 3050B	1,6010D	DMB
Cadmium, Total	ND		mg/kg	0.875	0.086	2	04/15/23 08:50	04/17/23 10:58	EPA 3050B	1,6010D	DMB
Calcium, Total	183000		mg/kg	43.7	15.3	10	04/15/23 08:50	04/17/23 13:28	EPA 3050B	1,6010D	DMB
Chromium, Total	43.8		mg/kg	0.875	0.084	2	04/15/23 08:50	04/17/23 10:58	EPA 3050B	1,6010D	DMB
Cobalt, Total	ND		mg/kg	1.75	0.145	2	04/15/23 08:50	04/17/23 10:58	EPA 3050B	1,6010D	DMB
Copper, Total	5.25		mg/kg	0.875	0.226	2	04/15/23 08:50	04/17/23 10:58	EPA 3050B	1,6010D	DMB
Iron, Total	13200		mg/kg	4.37	0.790	2	04/15/23 08:50	04/17/23 10:58	EPA 3050B	1,6010D	DMB
Lead, Total	6.62		mg/kg	4.37	0.234	2	04/15/23 08:50	04/17/23 10:58	EPA 3050B	1,6010D	DMB
Magnesium, Total	12800		mg/kg	8.75	1.35	2	04/15/23 08:50	04/17/23 10:58	EPA 3050B	1,6010D	DMB
Manganese, Total	5680		mg/kg	0.875	0.139	2	04/15/23 08:50	04/17/23 10:58	EPA 3050B	1,6010D	DMB
Mercury, Total	ND		mg/kg	0.071	0.046	1	04/15/23 09:30	04/15/23 14:06	EPA 7471B	1,7471B	DJR
Nickel, Total	1.21	J	mg/kg	2.19	0.212	2	04/15/23 08:50	04/17/23 10:58	EPA 3050B	1,6010D	DMB
Potassium, Total	2250		mg/kg	219	12.6	2	04/15/23 08:50	04/17/23 10:58	EPA 3050B	1,6010D	DMB
Selenium, Total	1.88		mg/kg	1.75	0.226	2	04/15/23 08:50	04/17/23 10:58	EPA 3050B	1,6010D	DMB
Silver, Total	ND		mg/kg	0.437	0.248	2	04/15/23 08:50	04/17/23 10:58	EPA 3050B	1,6010D	DMB
Sodium, Total	2070		mg/kg	175	2.76	2	04/15/23 08:50	04/17/23 10:58	EPA 3050B	1,6010D	DMB
Thallium, Total	ND		mg/kg	1.75	0.276	2	04/15/23 08:50	04/17/23 10:58	EPA 3050B	1,6010D	DMB
Vanadium, Total	35.9		mg/kg	0.875	0.178	2	04/15/23 08:50	04/17/23 10:58	EPA 3050B	1,6010D	DMB
Zinc, Total	29.1		mg/kg	4.37	0.256	2	04/15/23 08:50	04/17/23 10:58	EPA 3050B	1,6010D	DMB

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-08
Client ID: SB-08-8-9FT
Sample Location: BUFFALO, NY
Date Collected: 04/10/23 14:20
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5120		mg/kg	9.12	2.46	2	04/15/23 08:50	04/17/23 11:04	EPA 3050B	1,6010D	DMB
Antimony, Total	0.439	J	mg/kg	4.56	0.347	2	04/15/23 08:50	04/17/23 11:04	EPA 3050B	1,6010D	DMB
Arsenic, Total	3.78		mg/kg	0.912	0.190	2	04/15/23 08:50	04/17/23 11:04	EPA 3050B	1,6010D	DMB
Barium, Total	584		mg/kg	0.912	0.159	2	04/15/23 08:50	04/17/23 11:04	EPA 3050B	1,6010D	DMB
Beryllium, Total	0.466		mg/kg	0.456	0.030	2	04/15/23 08:50	04/17/23 11:04	EPA 3050B	1,6010D	DMB
Cadmium, Total	0.730	J	mg/kg	0.912	0.089	2	04/15/23 08:50	04/17/23 11:04	EPA 3050B	1,6010D	DMB
Calcium, Total	67400		mg/kg	45.6	16.0	10	04/15/23 08:50	04/17/23 13:33	EPA 3050B	1,6010D	DMB
Chromium, Total	13.3		mg/kg	0.912	0.088	2	04/15/23 08:50	04/17/23 11:04	EPA 3050B	1,6010D	DMB
Cobalt, Total	1.35	J	mg/kg	1.82	0.151	2	04/15/23 08:50	04/17/23 11:04	EPA 3050B	1,6010D	DMB
Copper, Total	44.5		mg/kg	0.912	0.235	2	04/15/23 08:50	04/17/23 11:04	EPA 3050B	1,6010D	DMB
Iron, Total	4930		mg/kg	4.56	0.824	2	04/15/23 08:50	04/17/23 11:04	EPA 3050B	1,6010D	DMB
Lead, Total	549		mg/kg	4.56	0.244	2	04/15/23 08:50	04/17/23 11:04	EPA 3050B	1,6010D	DMB
Magnesium, Total	7190		mg/kg	9.12	1.40	2	04/15/23 08:50	04/17/23 11:04	EPA 3050B	1,6010D	DMB
Manganese, Total	601		mg/kg	0.912	0.145	2	04/15/23 08:50	04/17/23 11:04	EPA 3050B	1,6010D	DMB
Mercury, Total	1.16		mg/kg	0.076	0.050	1	04/15/23 09:30	04/15/23 14:10	EPA 7471B	1,7471B	DJR
Nickel, Total	4.84		mg/kg	2.28	0.221	2	04/15/23 08:50	04/17/23 11:04	EPA 3050B	1,6010D	DMB
Potassium, Total	473		mg/kg	228	13.1	2	04/15/23 08:50	04/17/23 11:04	EPA 3050B	1,6010D	DMB
Selenium, Total	1.36	J	mg/kg	1.82	0.235	2	04/15/23 08:50	04/17/23 11:04	EPA 3050B	1,6010D	DMB
Silver, Total	ND		mg/kg	0.456	0.258	2	04/15/23 08:50	04/17/23 11:04	EPA 3050B	1,6010D	DMB
Sodium, Total	1740		mg/kg	182	2.87	2	04/15/23 08:50	04/17/23 11:04	EPA 3050B	1,6010D	DMB
Thallium, Total	ND		mg/kg	1.82	0.287	2	04/15/23 08:50	04/17/23 11:04	EPA 3050B	1,6010D	DMB
Vanadium, Total	6.53		mg/kg	0.912	0.185	2	04/15/23 08:50	04/17/23 11:04	EPA 3050B	1,6010D	DMB
Zinc, Total	397		mg/kg	4.56	0.267	2	04/15/23 08:50	04/17/23 11:04	EPA 3050B	1,6010D	DMB

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-09
Client ID: SB-09-8-9FT
Sample Location: BUFFALO, NY
Date Collected: 04/11/23 09:30
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3810		mg/kg	8.83	2.38	2	04/15/23 08:50	04/17/23 12:04	EPA 3050B	1,6010D	DMB
Antimony, Total	ND		mg/kg	4.42	0.336	2	04/15/23 08:50	04/17/23 12:04	EPA 3050B	1,6010D	DMB
Arsenic, Total	7.18		mg/kg	0.883	0.184	2	04/15/23 08:50	04/17/23 12:04	EPA 3050B	1,6010D	DMB
Barium, Total	805		mg/kg	0.883	0.154	2	04/15/23 08:50	04/17/23 12:04	EPA 3050B	1,6010D	DMB
Beryllium, Total	0.145	J	mg/kg	0.442	0.029	2	04/15/23 08:50	04/17/23 12:04	EPA 3050B	1,6010D	DMB
Cadmium, Total	1.81		mg/kg	0.883	0.087	2	04/15/23 08:50	04/17/23 12:04	EPA 3050B	1,6010D	DMB
Calcium, Total	60000		mg/kg	44.2	15.4	10	04/15/23 08:50	04/17/23 13:37	EPA 3050B	1,6010D	DMB
Chromium, Total	7.53		mg/kg	0.883	0.085	2	04/15/23 08:50	04/17/23 12:04	EPA 3050B	1,6010D	DMB
Cobalt, Total	1.84		mg/kg	1.77	0.147	2	04/15/23 08:50	04/17/23 12:04	EPA 3050B	1,6010D	DMB
Copper, Total	13.9		mg/kg	0.883	0.228	2	04/15/23 08:50	04/17/23 12:04	EPA 3050B	1,6010D	DMB
Iron, Total	5320		mg/kg	4.42	0.798	2	04/15/23 08:50	04/17/23 12:04	EPA 3050B	1,6010D	DMB
Lead, Total	2060		mg/kg	4.42	0.237	2	04/15/23 08:50	04/17/23 12:04	EPA 3050B	1,6010D	DMB
Magnesium, Total	4440		mg/kg	8.83	1.36	2	04/15/23 08:50	04/17/23 12:04	EPA 3050B	1,6010D	DMB
Manganese, Total	170		mg/kg	0.883	0.140	2	04/15/23 08:50	04/17/23 12:04	EPA 3050B	1,6010D	DMB
Mercury, Total	0.343		mg/kg	0.076	0.049	1	04/15/23 09:30	04/15/23 14:13	EPA 7471B	1,7471B	DJR
Nickel, Total	5.31		mg/kg	2.21	0.214	2	04/15/23 08:50	04/17/23 12:04	EPA 3050B	1,6010D	DMB
Potassium, Total	441		mg/kg	221	12.7	2	04/15/23 08:50	04/17/23 12:04	EPA 3050B	1,6010D	DMB
Selenium, Total	0.255	J	mg/kg	1.77	0.228	2	04/15/23 08:50	04/17/23 12:04	EPA 3050B	1,6010D	DMB
Silver, Total	ND		mg/kg	0.442	0.250	2	04/15/23 08:50	04/17/23 12:04	EPA 3050B	1,6010D	DMB
Sodium, Total	1130		mg/kg	177	2.78	2	04/15/23 08:50	04/17/23 12:04	EPA 3050B	1,6010D	DMB
Thallium, Total	ND		mg/kg	1.77	0.278	2	04/15/23 08:50	04/17/23 12:04	EPA 3050B	1,6010D	DMB
Vanadium, Total	18.2		mg/kg	0.883	0.179	2	04/15/23 08:50	04/17/23 12:04	EPA 3050B	1,6010D	DMB
Zinc, Total	2290		mg/kg	4.42	0.259	2	04/15/23 08:50	04/17/23 12:04	EPA 3050B	1,6010D	DMB

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-10
Client ID: SB-10-8-9FT
Sample Location: BUFFALO, NY
Date Collected: 04/11/23 10:10
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2550		mg/kg	8.38	2.26	2	04/15/23 08:50	04/17/23 12:09	EPA 3050B	1,6010D	DMB
Antimony, Total	0.773	J	mg/kg	4.19	0.318	2	04/15/23 08:50	04/17/23 12:09	EPA 3050B	1,6010D	DMB
Arsenic, Total	3.30		mg/kg	0.838	0.174	2	04/15/23 08:50	04/17/23 12:09	EPA 3050B	1,6010D	DMB
Barium, Total	104		mg/kg	0.838	0.146	2	04/15/23 08:50	04/17/23 12:09	EPA 3050B	1,6010D	DMB
Beryllium, Total	0.166	J	mg/kg	0.419	0.028	2	04/15/23 08:50	04/17/23 12:09	EPA 3050B	1,6010D	DMB
Cadmium, Total	0.257	J	mg/kg	0.838	0.082	2	04/15/23 08:50	04/17/23 12:09	EPA 3050B	1,6010D	DMB
Calcium, Total	20100		mg/kg	8.38	2.93	2	04/15/23 08:50	04/17/23 12:09	EPA 3050B	1,6010D	DMB
Chromium, Total	5.22		mg/kg	0.838	0.081	2	04/15/23 08:50	04/17/23 12:09	EPA 3050B	1,6010D	DMB
Cobalt, Total	2.16		mg/kg	1.68	0.139	2	04/15/23 08:50	04/17/23 12:09	EPA 3050B	1,6010D	DMB
Copper, Total	14.4		mg/kg	0.838	0.216	2	04/15/23 08:50	04/17/23 12:09	EPA 3050B	1,6010D	DMB
Iron, Total	5020		mg/kg	4.19	0.757	2	04/15/23 08:50	04/17/23 12:09	EPA 3050B	1,6010D	DMB
Lead, Total	287		mg/kg	4.19	0.225	2	04/15/23 08:50	04/17/23 12:09	EPA 3050B	1,6010D	DMB
Magnesium, Total	3450		mg/kg	8.38	1.29	2	04/15/23 08:50	04/17/23 12:09	EPA 3050B	1,6010D	DMB
Manganese, Total	114		mg/kg	0.838	0.133	2	04/15/23 08:50	04/17/23 12:09	EPA 3050B	1,6010D	DMB
Mercury, Total	0.156		mg/kg	0.068	0.044	1	04/15/23 09:30	04/15/23 14:16	EPA 7471B	1,7471B	DJR
Nickel, Total	7.31		mg/kg	2.10	0.203	2	04/15/23 08:50	04/17/23 12:09	EPA 3050B	1,6010D	DMB
Potassium, Total	346		mg/kg	210	12.1	2	04/15/23 08:50	04/17/23 12:09	EPA 3050B	1,6010D	DMB
Selenium, Total	0.844	J	mg/kg	1.68	0.216	2	04/15/23 08:50	04/17/23 12:09	EPA 3050B	1,6010D	DMB
Silver, Total	ND		mg/kg	0.419	0.237	2	04/15/23 08:50	04/17/23 12:09	EPA 3050B	1,6010D	DMB
Sodium, Total	2950		mg/kg	168	2.64	2	04/15/23 08:50	04/17/23 12:09	EPA 3050B	1,6010D	DMB
Thallium, Total	ND		mg/kg	1.68	0.264	2	04/15/23 08:50	04/17/23 12:09	EPA 3050B	1,6010D	DMB
Vanadium, Total	7.68		mg/kg	0.838	0.170	2	04/15/23 08:50	04/17/23 12:09	EPA 3050B	1,6010D	DMB
Zinc, Total	140		mg/kg	4.19	0.246	2	04/15/23 08:50	04/17/23 12:09	EPA 3050B	1,6010D	DMB

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-11
Client ID: SB-11-1-2FT
Sample Location: BUFFALO, NY
Date Collected: 04/11/23 11:00
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	36800		mg/kg	8.83	2.38	2	04/15/23 08:50	04/17/23 12:14	EPA 3050B	1,6010D	DMB
Antimony, Total	1.14	J	mg/kg	4.42	0.336	2	04/15/23 08:50	04/17/23 12:14	EPA 3050B	1,6010D	DMB
Arsenic, Total	12.4		mg/kg	0.883	0.184	2	04/15/23 08:50	04/17/23 12:14	EPA 3050B	1,6010D	DMB
Barium, Total	328		mg/kg	0.883	0.154	2	04/15/23 08:50	04/17/23 12:14	EPA 3050B	1,6010D	DMB
Beryllium, Total	4.58		mg/kg	0.442	0.029	2	04/15/23 08:50	04/17/23 12:14	EPA 3050B	1,6010D	DMB
Cadmium, Total	ND		mg/kg	0.883	0.087	2	04/15/23 08:50	04/17/23 12:14	EPA 3050B	1,6010D	DMB
Calcium, Total	205000		mg/kg	44.2	15.4	10	04/15/23 08:50	04/17/23 13:42	EPA 3050B	1,6010D	DMB
Chromium, Total	47.4		mg/kg	0.883	0.085	2	04/15/23 08:50	04/17/23 12:14	EPA 3050B	1,6010D	DMB
Cobalt, Total	ND		mg/kg	1.77	0.147	2	04/15/23 08:50	04/17/23 12:14	EPA 3050B	1,6010D	DMB
Copper, Total	10.4		mg/kg	0.883	0.228	2	04/15/23 08:50	04/17/23 12:14	EPA 3050B	1,6010D	DMB
Iron, Total	17300		mg/kg	4.42	0.798	2	04/15/23 08:50	04/17/23 12:14	EPA 3050B	1,6010D	DMB
Lead, Total	14.0		mg/kg	4.42	0.237	2	04/15/23 08:50	04/17/23 12:14	EPA 3050B	1,6010D	DMB
Magnesium, Total	14400		mg/kg	8.83	1.36	2	04/15/23 08:50	04/17/23 12:14	EPA 3050B	1,6010D	DMB
Manganese, Total	6440		mg/kg	0.883	0.140	2	04/15/23 08:50	04/17/23 12:14	EPA 3050B	1,6010D	DMB
Mercury, Total	ND		mg/kg	0.073	0.048	1	04/15/23 09:30	04/15/23 14:20	EPA 7471B	1,7471B	DJR
Nickel, Total	3.51		mg/kg	2.21	0.214	2	04/15/23 08:50	04/17/23 12:14	EPA 3050B	1,6010D	DMB
Potassium, Total	2590		mg/kg	221	12.7	2	04/15/23 08:50	04/17/23 12:14	EPA 3050B	1,6010D	DMB
Selenium, Total	1.29	J	mg/kg	1.77	0.228	2	04/15/23 08:50	04/17/23 12:14	EPA 3050B	1,6010D	DMB
Silver, Total	ND		mg/kg	0.442	0.250	2	04/15/23 08:50	04/17/23 12:14	EPA 3050B	1,6010D	DMB
Sodium, Total	3840		mg/kg	177	2.78	2	04/15/23 08:50	04/17/23 12:14	EPA 3050B	1,6010D	DMB
Thallium, Total	ND		mg/kg	1.77	0.278	2	04/15/23 08:50	04/17/23 12:14	EPA 3050B	1,6010D	DMB
Vanadium, Total	27.6		mg/kg	0.883	0.179	2	04/15/23 08:50	04/17/23 12:14	EPA 3050B	1,6010D	DMB
Zinc, Total	36.2		mg/kg	4.42	0.259	2	04/15/23 08:50	04/17/23 12:14	EPA 3050B	1,6010D	DMB

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-12
Client ID: SB-12-4-5FT
Sample Location: BUFFALO, NY
Date Collected: 04/10/23 15:00
Date Received: 04/11/23
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											
Aluminum, Total	12600		mg/kg	8.51	2.30	2	04/15/23 08:50	04/17/23 12:20	EPA 3050B	1,6010D	DMB
Antimony, Total	0.620	J	mg/kg	4.25	0.323	2	04/15/23 08:50	04/17/23 12:20	EPA 3050B	1,6010D	DMB
Arsenic, Total	6.19		mg/kg	0.851	0.177	2	04/15/23 08:50	04/17/23 12:20	EPA 3050B	1,6010D	DMB
Barium, Total	230		mg/kg	0.851	0.148	2	04/15/23 08:50	04/17/23 12:20	EPA 3050B	1,6010D	DMB
Beryllium, Total	0.869		mg/kg	0.425	0.028	2	04/15/23 08:50	04/17/23 12:20	EPA 3050B	1,6010D	DMB
Cadmium, Total	0.145	J	mg/kg	0.851	0.083	2	04/15/23 08:50	04/17/23 12:20	EPA 3050B	1,6010D	DMB
Calcium, Total	80000		mg/kg	42.5	14.9	10	04/15/23 08:50	04/17/23 13:47	EPA 3050B	1,6010D	DMB
Chromium, Total	10.6		mg/kg	0.851	0.082	2	04/15/23 08:50	04/17/23 12:20	EPA 3050B	1,6010D	DMB
Cobalt, Total	1.85		mg/kg	1.70	0.141	2	04/15/23 08:50	04/17/23 12:20	EPA 3050B	1,6010D	DMB
Copper, Total	6.35		mg/kg	0.851	0.220	2	04/15/23 08:50	04/17/23 12:20	EPA 3050B	1,6010D	DMB
Iron, Total	8150		mg/kg	4.25	0.768	2	04/15/23 08:50	04/17/23 12:20	EPA 3050B	1,6010D	DMB
Lead, Total	808		mg/kg	4.25	0.228	2	04/15/23 08:50	04/17/23 12:20	EPA 3050B	1,6010D	DMB
Magnesium, Total	6140		mg/kg	8.51	1.31	2	04/15/23 08:50	04/17/23 12:20	EPA 3050B	1,6010D	DMB
Manganese, Total	921		mg/kg	0.851	0.135	2	04/15/23 08:50	04/17/23 12:20	EPA 3050B	1,6010D	DMB
Mercury, Total	0.048	J	mg/kg	0.072	0.047	1	04/15/23 09:30	04/15/23 14:23	EPA 7471B	1,7471B	DJR
Nickel, Total	5.28		mg/kg	2.13	0.206	2	04/15/23 08:50	04/17/23 12:20	EPA 3050B	1,6010D	DMB
Potassium, Total	1000		mg/kg	213	12.2	2	04/15/23 08:50	04/17/23 12:20	EPA 3050B	1,6010D	DMB
Selenium, Total	ND		mg/kg	1.70	0.220	2	04/15/23 08:50	04/17/23 12:20	EPA 3050B	1,6010D	DMB
Silver, Total	ND		mg/kg	0.425	0.241	2	04/15/23 08:50	04/17/23 12:20	EPA 3050B	1,6010D	DMB
Sodium, Total	1030		mg/kg	170	2.68	2	04/15/23 08:50	04/17/23 12:20	EPA 3050B	1,6010D	DMB
Thallium, Total	ND		mg/kg	1.70	0.268	2	04/15/23 08:50	04/17/23 12:20	EPA 3050B	1,6010D	DMB
Vanadium, Total	27.1		mg/kg	0.851	0.173	2	04/15/23 08:50	04/17/23 12:20	EPA 3050B	1,6010D	DMB
Zinc, Total	124		mg/kg	4.25	0.249	2	04/15/23 08:50	04/17/23 12:20	EPA 3050B	1,6010D	DMB

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-13
Client ID: TMW-01
Sample Location: BUFFALO, NY
Date Collected: 04/11/23 13:30
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1.28		mg/l	0.100	0.0327	10	04/13/23 22:32	04/16/23 19:41	EPA 3005A	1,6020B	WKP
Antimony, Total	ND		mg/l	0.04000	0.00429	10	04/13/23 22:32	04/16/23 19:41	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.00556		mg/l	0.00500	0.00165	10	04/13/23 22:32	04/16/23 19:41	EPA 3005A	1,6020B	WKP
Barium, Total	0.1510		mg/l	0.00500	0.00173	10	04/13/23 22:32	04/16/23 19:41	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00500	0.00107	10	04/13/23 22:32	04/16/23 19:41	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00200	0.00059	10	04/13/23 22:32	04/16/23 19:41	EPA 3005A	1,6020B	WKP
Calcium, Total	313.		mg/l	1.00	0.394	10	04/13/23 22:32	04/16/23 19:41	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00381	J	mg/l	0.01000	0.00178	10	04/13/23 22:32	04/16/23 19:41	EPA 3005A	1,6020B	WKP
Cobalt, Total	0.00191	J	mg/l	0.00500	0.00163	10	04/13/23 22:32	04/16/23 19:41	EPA 3005A	1,6020B	WKP
Copper, Total	0.01528		mg/l	0.01000	0.00384	10	04/13/23 22:32	04/16/23 19:41	EPA 3005A	1,6020B	WKP
Iron, Total	2.65		mg/l	0.500	0.191	10	04/13/23 22:32	04/16/23 19:41	EPA 3005A	1,6020B	WKP
Lead, Total	0.02039		mg/l	0.01000	0.00343	10	04/13/23 22:32	04/16/23 19:41	EPA 3005A	1,6020B	WKP
Magnesium, Total	30.9		mg/l	0.700	0.242	10	04/13/23 22:32	04/16/23 19:41	EPA 3005A	1,6020B	WKP
Manganese, Total	0.2986		mg/l	0.01000	0.00440	10	04/13/23 22:32	04/16/23 19:41	EPA 3005A	1,6020B	WKP
Mercury, Total	ND		mg/l	0.00020	0.00009	1	04/16/23 13:15	04/17/23 12:33	EPA 7470A	1,7470A	DMB
Nickel, Total	ND		mg/l	0.02000	0.00556	10	04/13/23 22:32	04/16/23 19:41	EPA 3005A	1,6020B	WKP
Potassium, Total	29.2		mg/l	1.00	0.309	10	04/13/23 22:32	04/16/23 19:41	EPA 3005A	1,6020B	WKP
Selenium, Total	ND		mg/l	0.0500	0.0173	10	04/13/23 22:32	04/16/23 19:41	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00400	0.00163	10	04/13/23 22:32	04/16/23 19:41	EPA 3005A	1,6020B	WKP
Sodium, Total	2740		mg/l	1.00	0.293	10	04/13/23 22:32	04/16/23 19:41	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.01000	0.00143	10	04/13/23 22:32	04/16/23 19:41	EPA 3005A	1,6020B	WKP
Vanadium, Total	ND		mg/l	0.05000	0.01570	10	04/13/23 22:32	04/16/23 19:41	EPA 3005A	1,6020B	WKP
Zinc, Total	ND		mg/l	0.1000	0.03410	10	04/13/23 22:32	04/16/23 19:41	EPA 3005A	1,6020B	WKP

Project Name: MARINE DRIVE PHASE I
Lab Number: L2319210
Project Number: Z31.001.002
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-14
Client ID: TMW-02
Sample Location: BUFFALO, NY
Date Collected: 04/11/23 14:30
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.985		mg/l	0.0100	0.00327	1	04/13/23 22:32	04/16/23 19:46	EPA 3005A	1,6020B	WKP
Antimony, Total	ND		mg/l	0.00400	0.00042	1	04/13/23 22:32	04/16/23 19:46	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.03434		mg/l	0.00050	0.00016	1	04/13/23 22:32	04/16/23 19:46	EPA 3005A	1,6020B	WKP
Barium, Total	0.6556		mg/l	0.00050	0.00017	1	04/13/23 22:32	04/16/23 19:46	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	04/13/23 22:32	04/16/23 19:46	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	04/13/23 22:32	04/16/23 19:46	EPA 3005A	1,6020B	WKP
Calcium, Total	200.		mg/l	0.100	0.0394	1	04/13/23 22:32	04/16/23 19:46	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00238		mg/l	0.00100	0.00017	1	04/13/23 22:32	04/16/23 19:46	EPA 3005A	1,6020B	WKP
Cobalt, Total	0.00178		mg/l	0.00050	0.00016	1	04/13/23 22:32	04/16/23 19:46	EPA 3005A	1,6020B	WKP
Copper, Total	0.00308		mg/l	0.00100	0.00038	1	04/13/23 22:32	04/16/23 19:46	EPA 3005A	1,6020B	WKP
Iron, Total	23.0		mg/l	0.0500	0.0191	1	04/13/23 22:32	04/16/23 19:46	EPA 3005A	1,6020B	WKP
Lead, Total	0.2076		mg/l	0.00100	0.00034	1	04/13/23 22:32	04/16/23 19:46	EPA 3005A	1,6020B	WKP
Magnesium, Total	60.9		mg/l	0.0700	0.0242	1	04/13/23 22:32	04/16/23 19:46	EPA 3005A	1,6020B	WKP
Manganese, Total	0.6289		mg/l	0.00100	0.00044	1	04/13/23 22:32	04/16/23 19:46	EPA 3005A	1,6020B	WKP
Mercury, Total	ND		mg/l	0.00020	0.00009	1	04/16/23 13:15	04/17/23 12:36	EPA 7470A	1,7470A	DMB
Nickel, Total	0.00396		mg/l	0.00200	0.00055	1	04/13/23 22:32	04/16/23 19:46	EPA 3005A	1,6020B	WKP
Potassium, Total	27.5		mg/l	0.100	0.0309	1	04/13/23 22:32	04/16/23 19:46	EPA 3005A	1,6020B	WKP
Selenium, Total	ND		mg/l	0.00500	0.00173	1	04/13/23 22:32	04/16/23 19:46	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	04/13/23 22:32	04/16/23 19:46	EPA 3005A	1,6020B	WKP
Sodium, Total	1050		mg/l	1.00	0.293	10	04/13/23 22:32	04/16/23 19:51	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	04/13/23 22:32	04/16/23 19:46	EPA 3005A	1,6020B	WKP
Vanadium, Total	0.00893		mg/l	0.00500	0.00157	1	04/13/23 22:32	04/16/23 19:46	EPA 3005A	1,6020B	WKP
Zinc, Total	0.01953		mg/l	0.01000	0.00341	1	04/13/23 22:32	04/16/23 19:46	EPA 3005A	1,6020B	WKP

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

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): 13-14 Batch: WG1766343-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	04/13/23 22:32	04/14/23 09:31	1,6020B	NTB
Antimony, Total	ND		mg/l	0.00400	0.00042	1	04/13/23 22:32	04/14/23 09:31	1,6020B	NTB
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	04/13/23 22:32	04/14/23 09:31	1,6020B	NTB
Barium, Total	ND		mg/l	0.00050	0.00017	1	04/13/23 22:32	04/14/23 09:31	1,6020B	NTB
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	04/13/23 22:32	04/14/23 09:31	1,6020B	NTB
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	04/13/23 22:32	04/14/23 09:31	1,6020B	NTB
Calcium, Total	ND		mg/l	0.100	0.0394	1	04/13/23 22:32	04/14/23 09:31	1,6020B	NTB
Chromium, Total	ND		mg/l	0.00100	0.00017	1	04/13/23 22:32	04/14/23 09:31	1,6020B	NTB
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	04/13/23 22:32	04/14/23 09:31	1,6020B	NTB
Copper, Total	ND		mg/l	0.00100	0.00038	1	04/13/23 22:32	04/14/23 09:31	1,6020B	NTB
Iron, Total	ND		mg/l	0.0500	0.0191	1	04/13/23 22:32	04/14/23 09:31	1,6020B	NTB
Lead, Total	ND		mg/l	0.00100	0.00034	1	04/13/23 22:32	04/14/23 09:31	1,6020B	NTB
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	04/13/23 22:32	04/14/23 09:31	1,6020B	NTB
Manganese, Total	ND		mg/l	0.00100	0.00044	1	04/13/23 22:32	04/14/23 09:31	1,6020B	NTB
Nickel, Total	ND		mg/l	0.00200	0.00055	1	04/13/23 22:32	04/14/23 09:31	1,6020B	NTB
Potassium, Total	ND		mg/l	0.100	0.0309	1	04/13/23 22:32	04/14/23 09:31	1,6020B	NTB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	04/13/23 22:32	04/14/23 09:31	1,6020B	NTB
Silver, Total	ND		mg/l	0.00040	0.00016	1	04/13/23 22:32	04/14/23 09:31	1,6020B	NTB
Sodium, Total	ND		mg/l	0.100	0.0293	1	04/13/23 22:32	04/14/23 09:31	1,6020B	NTB
Thallium, Total	ND		mg/l	0.00100	0.00014	1	04/13/23 22:32	04/14/23 09:31	1,6020B	NTB
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	04/13/23 22:32	04/14/23 09:31	1,6020B	NTB
Zinc, Total	ND		mg/l	0.01000	0.00341	1	04/13/23 22:32	04/14/23 09:31	1,6020B	NTB

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-12 Batch: WG1766397-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	04/15/23 08:50	04/16/23 17:43	1,6010D	AMW
Antimony, Total	ND		mg/kg	2.00	0.152	1	04/15/23 08:50	04/16/23 17:43	1,6010D	AMW
Arsenic, Total	ND		mg/kg	0.400	0.083	1	04/15/23 08:50	04/16/23 17:43	1,6010D	AMW

Project Name: MARINE DRIVE PHASE I **Lab Number:** L2319210

Project Number: Z31.001.002 **Report Date:** 04/18/23

Method Blank Analysis
Batch Quality Control

Barium, Total	ND		mg/kg	0.400	0.070	1	04/15/23 08:50	04/16/23 17:43	1,6010D	AMW
Beryllium, Total	ND		mg/kg	0.200	0.013	1	04/15/23 08:50	04/16/23 17:43	1,6010D	AMW
Cadmium, Total	ND		mg/kg	0.400	0.039	1	04/15/23 08:50	04/16/23 17:43	1,6010D	AMW
Calcium, Total	ND		mg/kg	4.00	1.40	1	04/15/23 08:50	04/16/23 17:43	1,6010D	AMW
Chromium, Total	ND		mg/kg	0.400	0.038	1	04/15/23 08:50	04/16/23 17:43	1,6010D	AMW
Cobalt, Total	ND		mg/kg	0.800	0.066	1	04/15/23 08:50	04/16/23 17:43	1,6010D	AMW
Copper, Total	ND		mg/kg	0.400	0.103	1	04/15/23 08:50	04/16/23 17:43	1,6010D	AMW
Iron, Total	0.403	J	mg/kg	2.00	0.361	1	04/15/23 08:50	04/16/23 17:43	1,6010D	AMW
Lead, Total	ND		mg/kg	2.00	0.107	1	04/15/23 08:50	04/16/23 17:43	1,6010D	AMW
Magnesium, Total	ND		mg/kg	4.00	0.616	1	04/15/23 08:50	04/16/23 17:43	1,6010D	AMW
Manganese, Total	ND		mg/kg	0.400	0.064	1	04/15/23 08:50	04/16/23 17:43	1,6010D	AMW
Nickel, Total	ND		mg/kg	1.00	0.097	1	04/15/23 08:50	04/16/23 17:43	1,6010D	AMW
Potassium, Total	ND		mg/kg	100	5.76	1	04/15/23 08:50	04/16/23 17:43	1,6010D	AMW
Selenium, Total	ND		mg/kg	0.800	0.103	1	04/15/23 08:50	04/16/23 17:43	1,6010D	AMW
Silver, Total	ND		mg/kg	0.200	0.113	1	04/15/23 08:50	04/16/23 17:43	1,6010D	AMW
Sodium, Total	3.82	J	mg/kg	80.0	1.26	1	04/15/23 08:50	04/16/23 17:43	1,6010D	AMW
Thallium, Total	ND		mg/kg	0.800	0.126	1	04/15/23 08:50	04/16/23 17:43	1,6010D	AMW
Vanadium, Total	ND		mg/kg	0.400	0.081	1	04/15/23 08:50	04/16/23 17:43	1,6010D	AMW
Zinc, Total	0.123	J	mg/kg	2.00	0.117	1	04/15/23 08:50	04/16/23 17:43	1,6010D	AMW

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): 01-12 Batch: WG1766399-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	04/15/23 09:30	04/15/23 13:20	1,7471B	DJR

Prep Information

Digestion Method: EPA 7471B

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002
Lab Number: L2319210
Report Date: 04/18/23

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): 13-14 Batch: WG1767318-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	04/16/23 13:15	04/17/23 11:43	1,7470A	DMB

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: MARINE DRIVE PHASE I

Project Number: Z31.001.002

Lab Number: L2319210

Report Date: 04/18/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-14 Batch: WG1766343-2								
Aluminum, Total	113		-		80-120	-		
Antimony, Total	104		-		80-120	-		
Arsenic, Total	105		-		80-120	-		
Barium, Total	106		-		80-120	-		
Beryllium, Total	101		-		80-120	-		
Cadmium, Total	106		-		80-120	-		
Calcium, Total	83		-		80-120	-		
Chromium, Total	115		-		80-120	-		
Cobalt, Total	110		-		80-120	-		
Copper, Total	107		-		80-120	-		
Iron, Total	114		-		80-120	-		
Lead, Total	106		-		80-120	-		
Magnesium, Total	109		-		80-120	-		
Manganese, Total	113		-		80-120	-		
Nickel, Total	108		-		80-120	-		
Potassium, Total	112		-		80-120	-		
Selenium, Total	102		-		80-120	-		
Silver, Total	109		-		80-120	-		
Sodium, Total	112		-		80-120	-		
Thallium, Total	109		-		80-120	-		
Vanadium, Total	115		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: MARINE DRIVE PHASE I

Project Number: Z31.001.002

Lab Number: L2319210

Report Date: 04/18/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-14 Batch: WG1766343-2					
Zinc, Total	103	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: MARINE DRIVE PHASE I

Project Number: Z31.001.002

Lab Number: L2319210

Report Date: 04/18/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-12 Batch: WG1766397-2 SRM Lot Number: D116-540					
Aluminum, Total	74	-	45-155	-	
Antimony, Total	150	-	2-205	-	
Arsenic, Total	93	-	82-119	-	
Barium, Total	82	-	82-118	-	
Beryllium, Total	87	-	82-118	-	
Cadmium, Total	91	-	82-118	-	
Calcium, Total	82	-	81-119	-	
Chromium, Total	90	-	81-118	-	
Cobalt, Total	90	-	83-117	-	
Copper, Total	89	-	83-117	-	
Iron, Total	85	-	58-142	-	
Lead, Total	91	-	83-117	-	
Magnesium, Total	89	-	75-125	-	
Manganese, Total	85	-	82-118	-	
Nickel, Total	92	-	82-118	-	
Potassium, Total	86	-	68-131	-	
Selenium, Total	93	-	78-122	-	
Silver, Total	93	-	79-121	-	
Sodium, Total	91	-	71-130	-	
Thallium, Total	94	-	80-120	-	
Vanadium, Total	92	-	78-122	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: MARINE DRIVE PHASE I

Project Number: Z31.001.002

Lab Number: L2319210

Report Date: 04/18/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-12 Batch: WG1766397-2 SRM Lot Number: D116-540					
Zinc, Total	91	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-12 Batch: WG1766399-2 SRM Lot Number: D116-540					
Mercury, Total	100	-	58-142	-	
Total Metals - Mansfield Lab Associated sample(s): 13-14 Batch: WG1767318-2					
Mercury, Total	92	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

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): 13-14 QC Batch ID: WG1766343-3 QC Sample: L2319082-01 Client ID: MS Sample												
Aluminum, Total	0.0134	2	1.98	98		-	-		75-125	-		20
Antimony, Total	ND	0.5	0.4827	96		-	-		75-125	-		20
Arsenic, Total	0.00421	0.12	0.1225	98		-	-		75-125	-		20
Barium, Total	0.04656	2	1.917	94		-	-		75-125	-		20
Beryllium, Total	ND	0.05	0.04924	98		-	-		75-125	-		20
Cadmium, Total	ND	0.053	0.05110	96		-	-		75-125	-		20
Calcium, Total	84.1	10	91.2	**71**	Q	-	-		75-125	-		20
Chromium, Total	0.00089J	0.2	0.2067	103		-	-		75-125	-		20
Cobalt, Total	ND	0.5	0.4995	100		-	-		75-125	-		20
Copper, Total	0.00050J	0.25	0.2448	98		-	-		75-125	-		20
Iron, Total	10.1	1	11.0	90		-	-		75-125	-		20
Lead, Total	ND	0.53	0.5105	96		-	-		75-125	-		20
Magnesium, Total	58.1	10	67.1	90		-	-		75-125	-		20
Manganese, Total	0.6788	0.5	1.172	99		-	-		75-125	-		20
Nickel, Total	0.00108J	0.5	0.4952	99		-	-		75-125	-		20
Potassium, Total	5.48	10	15.4	99		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.118	98		-	-		75-125	-		20
Silver, Total	ND	0.05	0.05037	101		-	-		75-125	-		20
Sodium, Total	35.8	10	44.3	85		-	-		75-125	-		20
Thallium, Total	ND	0.12	0.1200	100		-	-		75-125	-		20
Vanadium, Total	ND	0.5	0.5218	104		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

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): 13-14 QC Batch ID: WG1766343-3 QC Sample: L2319082-01 Client ID: MS Sample									
Zinc, Total	0.00808J	0.5	0.4759	95	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

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): 01-12 QC Batch ID: WG1766397-3 QC Sample: L2320063-01 Client ID: MS Sample										
Aluminum, Total	2530	163	2670	86		-	-	75-125	-	20
Antimony, Total	ND	40.7	41.2	101		-	-	75-125	-	20
Arsenic, Total	2.16	9.76	12.0	101		-	-	75-125	-	20
Barium, Total	17.0	163	188	105		-	-	75-125	-	20
Beryllium, Total	0.160J	4.07	4.26	105		-	-	75-125	-	20
Cadmium, Total	ND	4.31	3.98	92		-	-	75-125	-	20
Calcium, Total	23800	813	22400	**0**	Q	-	-	75-125	-	20
Chromium, Total	3.62	16.3	19.4	97		-	-	75-125	-	20
Cobalt, Total	2.96	40.7	42.3	97		-	-	75-125	-	20
Copper, Total	7.81	20.3	29.2	105		-	-	75-125	-	20
Iron, Total	7840	81.3	8230	**479**	Q	-	-	75-125	-	20
Lead, Total	3.29J	43.1	46.8	108		-	-	75-125	-	20
Magnesium, Total	5440	813	7100	**204**	Q	-	-	75-125	-	20
Manganese, Total	151	40.7	202	125		-	-	75-125	-	20
Nickel, Total	6.06	40.7	44.0	93		-	-	75-125	-	20
Potassium, Total	243	813	1070	102		-	-	75-125	-	20
Selenium, Total	ND	9.76	9.94	102		-	-	75-125	-	20
Silver, Total	ND	4.07	4.21	104		-	-	75-125	-	20
Sodium, Total	47.1J	813	923	113		-	-	75-125	-	20
Thallium, Total	ND	9.76	9.90	101		-	-	75-125	-	20
Vanadium, Total	6.06	40.7	47.3	101		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

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): 01-12 QC Batch ID: WG1766397-3 QC Sample: L2320063-01 Client ID: MS Sample									
Zinc, Total	16.8	40.7	54.1	92	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1766399-3 QC Sample: L2320063-01 Client ID: MS Sample									
Mercury, Total	ND	1.32	1.34	102	-	-	80-120	-	20
Total Metals - Mansfield Lab Associated sample(s): 13-14 QC Batch ID: WG1767318-3 QC Sample: L2319082-02 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00438	88	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-14 QC Batch ID: WG1766343-4 QC Sample: L2319082-01 Client ID: DUP Sample						
Aluminum, Total	0.0134	0.0125	mg/l	7		20
Antimony, Total	ND	ND	mg/l	NC		20
Arsenic, Total	0.00421	0.00436	mg/l	3		20
Barium, Total	0.04656	0.04728	mg/l	2		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Calcium, Total	84.1	86.4	mg/l	3		20
Chromium, Total	0.00089J	0.00098J	mg/l	NC		20
Cobalt, Total	ND	ND	mg/l	NC		20
Copper, Total	0.00050J	0.00051J	mg/l	NC		20
Iron, Total	10.1	10.4	mg/l	3		20
Lead, Total	ND	ND	mg/l	NC		20
Magnesium, Total	58.1	59.3	mg/l	2		20
Manganese, Total	0.6788	0.6909	mg/l	2		20
Nickel, Total	0.00108J	0.00112J	mg/l	NC		20
Potassium, Total	5.48	5.48	mg/l	0		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Sodium, Total	35.8	36.4	mg/l	2		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: MARINE DRIVE PHASE I

Project Number: Z31.001.002

Lab Number: L2319210

Report Date: 04/18/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-14 QC Batch ID: WG1766343-4 QC Sample: L2319082-01 Client ID: DUP Sample					
Thallium, Total	ND	0.00025J	mg/l	NC	20
Vanadium, Total	ND	ND	mg/l	NC	20
Zinc, Total	0.00808J	0.00837J	mg/l	NC	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1766397-4 QC Sample: L2320063-01 Client ID: DUP Sample					
Aluminum, Total	2530	2460	mg/kg	3	20
Antimony, Total	ND	ND	mg/kg	NC	20
Arsenic, Total	2.16	2.01	mg/kg	7	20
Barium, Total	17.0	16.3	mg/kg	4	20
Beryllium, Total	0.160J	0.128J	mg/kg	NC	20
Cadmium, Total	ND	ND	mg/kg	NC	20
Calcium, Total	23800	22300	mg/kg	7	20
Chromium, Total	3.62	3.89	mg/kg	7	20
Cobalt, Total	2.96	3.27	mg/kg	10	20
Copper, Total	7.81	7.86	mg/kg	1	20
Iron, Total	7840	7950	mg/kg	1	20
Lead, Total	3.29J	2.88J	mg/kg	NC	20
Magnesium, Total	5440	6340	mg/kg	15	20
Manganese, Total	151	158	mg/kg	5	20
Nickel, Total	6.06	6.62	mg/kg	9	20
Potassium, Total	243	230	mg/kg	5	20
Selenium, Total	ND	ND	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
Sodium, Total	47.1J	50.4J	mg/kg	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: MARINE DRIVE PHASE I

Project Number: Z31.001.002

Lab Number: L2319210

Report Date: 04/18/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1766397-4 QC Sample: L2320063-01 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	6.06	7.24	mg/kg	18	20
Zinc, Total	16.8	17.8	mg/kg	6	20
Total Metals - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1766399-4 QC Sample: L2320063-01 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/kg	NC	20
Total Metals - Mansfield Lab Associated sample(s): 13-14 QC Batch ID: WG1767318-4 QC Sample: L2319082-02 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-01
Client ID: SB-01-5-6FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 09:20
Date Received: 04/11/23
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	88.1		%	0.100	NA	1	-	04/13/23 12:07	121,2540G	GAG

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002
Lab Number: L2319210
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-02
Client ID: SB-02-4-5FT
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Soil

Date Collected: 04/10/23 10:00
Date Received: 04/11/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.1		%	0.100	NA	1	-	04/13/23 11:27	121,2540G	GAG

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-03
Client ID: SB-03-4-5FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 10:30
Date Received: 04/11/23
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	84.6		%	0.100	NA	1	-	04/13/23 11:27	121,2540G	GAG

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002
Lab Number: L2319210
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-04
Client ID: SB-05-4-5FT
Sample Location: BUFFALO, NY
Date Collected: 04/10/23 12:40
Date Received: 04/11/23
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	82.5		%	0.100	NA	1	-	04/13/23 11:27	121,2540G	GAG

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-05
Client ID: SB-05-7-8FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 12:40
Date Received: 04/11/23
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	47.2		%	0.100	NA	1	-	04/13/23 11:27	121,2540G	GAG

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-06
Client ID: SB-06-3-4FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 13:15
Date Received: 04/11/23
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	85.2		%	0.100	NA	1	-	04/13/23 11:27	121,2540G	GAG

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-07
Client ID: SB-07-1-2FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 13:45
Date Received: 04/11/23
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	88.0		%	0.100	NA	1	-	04/13/23 11:27	121,2540G	GAG

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-08
Client ID: SB-08-8-9FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 14:20
Date Received: 04/11/23
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	82.4		%	0.100	NA	1	-	04/13/23 11:27	121,2540G	GAG

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-09
Client ID: SB-09-8-9FT
Sample Location: BUFFALO, NY

Date Collected: 04/11/23 09:30
Date Received: 04/11/23
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	85.0		%	0.100	NA	1	-	04/13/23 11:27	121,2540G	GAG

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-10
Client ID: SB-10-8-9FT
Sample Location: BUFFALO, NY

Date Collected: 04/11/23 10:10
Date Received: 04/11/23
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	92.9		%	0.100	NA	1	-	04/13/23 11:27	121,2540G	GAG

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-11
Client ID: SB-11-1-2FT
Sample Location: BUFFALO, NY

Date Collected: 04/11/23 11:00
Date Received: 04/11/23
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	87.3		%	0.100	NA	1	-	04/13/23 11:27	121,2540G	GAG

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

SAMPLE RESULTS

Lab ID: L2319210-12
Client ID: SB-12-4-5FT
Sample Location: BUFFALO, NY

Date Collected: 04/10/23 15:00
Date Received: 04/11/23
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	88.3		%	0.100	NA	1	-	04/13/23 11:27	121,2540G	GAG

Lab Duplicate Analysis

Batch Quality Control

Project Name: MARINE DRIVE PHASE I

Project Number: Z31.001.002

Lab Number: L2319210

Report Date: 04/18/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1766278-1 QC Sample: L2319066-01 Client ID: DUP Sample						
Solids, Total	97.3	97.6	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG1766289-1 QC Sample: L2319210-02 Client ID: SB-02-4-5FT						
Solids, Total	82.1	83.0	%	1		20

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2319210-01A	Plastic 2oz unpreserved for TS	B	NA		5.3	Y	Absent		TS(7)
L2319210-01B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		5.3	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),CO-TI(180),V-TI(180),MG-TI(180),FE-TI(180),MN-TI(180),HG-T(28),NA-TI(180),CD-TI(180),CA-TI(180),K-TI(180)
L2319210-01C	Vial Large Septa unpreserved (4oz)	B	NA		5.3	Y	Absent		NYTCL-8260-R2(14)
L2319210-01D	Glass 250ml/8oz unpreserved	B	NA		5.3	Y	Absent		NYTCL-8270(14),NYTCL-8082(365)
L2319210-01X	Vial MeOH preserved split	B	NA		5.3	Y	Absent		NYTCL-8260-R2(14)
L2319210-01Y	Vial Water preserved split	B	NA		5.3	Y	Absent	**14-APR-23 17:31**	NYTCL-8260-R2(14)
L2319210-01Z	Vial Water preserved split	B	NA		5.3	Y	Absent	**14-APR-23 17:31**	NYTCL-8260-R2(14)
L2319210-02A	Plastic 2oz unpreserved for TS	B	NA		5.3	Y	Absent		TS(7)
L2319210-02B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		5.3	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),PB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2319210-02C	Vial Large Septa unpreserved (4oz)	B	NA		5.3	Y	Absent		NYTCL-8260-R2(14)
L2319210-02D	Glass 250ml/8oz unpreserved	B	NA		5.3	Y	Absent		NYTCL-8270(14),NYTCL-8082(365)
L2319210-02X	Vial MeOH preserved split	B	NA		5.3	Y	Absent		NYTCL-8260-R2(14)
L2319210-02Y	Vial Water preserved split	B	NA		5.3	Y	Absent	**14-APR-23 17:31**	NYTCL-8260-R2(14)
L2319210-02Z	Vial Water preserved split	B	NA		5.3	Y	Absent	**14-APR-23 17:31**	NYTCL-8260-R2(14)
L2319210-03A	Plastic 2oz unpreserved for TS	B	NA		5.3	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2319210-03B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		5.3	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MN-TI(180),MG-TI(180),FE-TI(180),HG-T(28),NA-TI(180),K-TI(180),CD-TI(180),CA-TI(180)
L2319210-03C	Vial Large Septa unpreserved (4oz)	B	NA		5.3	Y	Absent		NYTCL-8260-R2(14)
L2319210-03D	Glass 250ml/8oz unpreserved	B	NA		5.3	Y	Absent		NYTCL-8270(14),NYTCL-8082(365)
L2319210-03X	Vial MeOH preserved split	B	NA		5.3	Y	Absent		NYTCL-8260-R2(14)
L2319210-03Y	Vial Water preserved split	B	NA		5.3	Y	Absent	**14-APR-23 17:31**	NYTCL-8260-R2(14)
L2319210-03Z	Vial Water preserved split	B	NA		5.3	Y	Absent	**14-APR-23 17:31**	NYTCL-8260-R2(14)
L2319210-04A	Plastic 2oz unpreserved for TS	B	NA		5.3	Y	Absent		TS(7)
L2319210-04B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		5.3	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MN-TI(180),MG-TI(180),HG-T(28),FE-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2319210-04C	Vial Large Septa unpreserved (4oz)	B	NA		5.3	Y	Absent		NYTCL-8260-R2(14)
L2319210-04D	Glass 250ml/8oz unpreserved	B	NA		5.3	Y	Absent		NYTCL-8270(14),NYTCL-8082(365)
L2319210-04X	Vial MeOH preserved split	B	NA		5.3	Y	Absent		NYTCL-8260-R2(14)
L2319210-04Y	Vial Water preserved split	B	NA		5.3	Y	Absent	**14-APR-23 17:31**	NYTCL-8260-R2(14)
L2319210-04Z	Vial Water preserved split	B	NA		5.3	Y	Absent	**14-APR-23 17:31**	NYTCL-8260-R2(14)
L2319210-05A	Glass 60ml unpreserved split	B	NA		5.3	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),V-TI(180),CO-TI(180),HG-T(28),MN-TI(180),MG-TI(180),FE-TI(180),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2319210-05B	Glass 120ml/4oz unpreserved	B	NA		5.3	Y	Absent		NYTCL-8260-R2(14)
L2319210-05C	Glass 120ml/4oz unpreserved	B	NA		5.3	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8082(365)
L2319210-05X	Vial MeOH preserved split	B	NA		5.3	Y	Absent		NYTCL-8260-R2(14)
L2319210-05Y	Vial Water preserved split	B	NA		5.3	Y	Absent	**14-APR-23 17:31**	NYTCL-8260-R2(14)
L2319210-05Z	Vial Water preserved split	B	NA		5.3	Y	Absent	**14-APR-23 17:31**	NYTCL-8260-R2(14)
L2319210-06A	Plastic 2oz unpreserved for TS	B	NA		5.3	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2319210-06B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		5.3	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2319210-06C	Vial Large Septa unpreserved (4oz)	B	NA		5.3	Y	Absent		NYTCL-8260-R2(14)
L2319210-06D	Glass 250ml/8oz unpreserved	B	NA		5.3	Y	Absent		NYTCL-8270(14),NYTCL-8082(365)
L2319210-06X	Vial MeOH preserved split	B	NA		5.3	Y	Absent		NYTCL-8260-R2(14)
L2319210-06Y	Vial Water preserved split	B	NA		5.3	Y	Absent	**14-APR-23 17:31**	NYTCL-8260-R2(14)
L2319210-06Z	Vial Water preserved split	B	NA		5.3	Y	Absent	**14-APR-23 17:31**	NYTCL-8260-R2(14)
L2319210-07A	Plastic 2oz unpreserved for TS	B	NA		5.3	Y	Absent		TS(7)
L2319210-07B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		5.3	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CA-TI(180),NA-TI(180),K-TI(180),CD-TI(180)
L2319210-07C	Vial Large Septa unpreserved (4oz)	B	NA		5.3	Y	Absent		NYTCL-8260-R2(14)
L2319210-07D	Glass 250ml/8oz unpreserved	B	NA		5.3	Y	Absent		NYTCL-8270(14),NYTCL-8082(365)
L2319210-07X	Vial MeOH preserved split	B	NA		5.3	Y	Absent		NYTCL-8260-R2(14)
L2319210-07Y	Vial Water preserved split	B	NA		5.3	Y	Absent	**14-APR-23 17:31**	NYTCL-8260-R2(14)
L2319210-07Z	Vial Water preserved split	B	NA		5.3	Y	Absent	**14-APR-23 17:31**	NYTCL-8260-R2(14)
L2319210-08A	Plastic 2oz unpreserved for TS	B	NA		5.3	Y	Absent		TS(7)
L2319210-08B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		5.3	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),CU-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MG-TI(180),HG-T(28),FE-TI(180),MN-TI(180),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2319210-08C	Vial Large Septa unpreserved (4oz)	B	NA		5.3	Y	Absent		NYTCL-8260-R2(14)
L2319210-08D	Glass 250ml/8oz unpreserved	B	NA		5.3	Y	Absent		NYTCL-8270(14),NYTCL-8082(365)
L2319210-08X	Vial MeOH preserved split	B	NA		5.3	Y	Absent		NYTCL-8260-R2(14)
L2319210-08Y	Vial Water preserved split	B	NA		5.3	Y	Absent	**14-APR-23 17:31**	NYTCL-8260-R2(14)
L2319210-08Z	Vial Water preserved split	B	NA		5.3	Y	Absent	**14-APR-23 17:31**	NYTCL-8260-R2(14)
L2319210-09A	Plastic 2oz unpreserved for TS	B	NA		5.3	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2319210-09B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		5.3	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),MG-TI(180),FE-TI(180),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2319210-09C	Vial Large Septa unpreserved (4oz)	B	NA		5.3	Y	Absent		NYTCL-8260-R2(14)
L2319210-09D	Glass 250ml/8oz unpreserved	B	NA		5.3	Y	Absent		NYTCL-8270(14),NYTCL-8082(365)
L2319210-09X	Vial MeOH preserved split	B	NA		5.3	Y	Absent		NYTCL-8260-R2(14)
L2319210-09Y	Vial Water preserved split	B	NA		5.3	Y	Absent	**14-APR-23 17:31**	NYTCL-8260-R2(14)
L2319210-09Z	Vial Water preserved split	B	NA		5.3	Y	Absent	**14-APR-23 17:31**	NYTCL-8260-R2(14)
L2319210-10A	Plastic 2oz unpreserved for TS	B	NA		5.3	Y	Absent		TS(7)
L2319210-10B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		5.3	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),ZN-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2319210-10C	Vial Large Septa unpreserved (4oz)	B	NA		5.3	Y	Absent		NYTCL-8260-R2(14)
L2319210-10D	Glass 250ml/8oz unpreserved	B	NA		5.3	Y	Absent		NYTCL-8270(14),NYTCL-8082(365)
L2319210-10X	Vial MeOH preserved split	B	NA		5.3	Y	Absent		NYTCL-8260-R2(14)
L2319210-10Y	Vial Water preserved split	B	NA		5.3	Y	Absent	**14-APR-23 17:31**	NYTCL-8260-R2(14)
L2319210-10Z	Vial Water preserved split	B	NA		5.3	Y	Absent	**14-APR-23 17:31**	NYTCL-8260-R2(14)
L2319210-11A	Plastic 2oz unpreserved for TS	B	NA		5.3	Y	Absent		TS(7)
L2319210-11B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		5.3	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),CU-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),K-TI(180),CA-TI(180),NA-TI(180),CD-TI(180)
L2319210-11C	Vial Large Septa unpreserved (4oz)	B	NA		5.3	Y	Absent		NYTCL-8260-R2(14)
L2319210-11D	Glass 250ml/8oz unpreserved	B	NA		5.3	Y	Absent		NYTCL-8270(14),NYTCL-8082(365)
L2319210-11X	Vial MeOH preserved split	B	NA		5.3	Y	Absent		NYTCL-8260-R2(14)
L2319210-11Y	Vial Water preserved split	B	NA		5.3	Y	Absent	**14-APR-23 17:31**	NYTCL-8260-R2(14)
L2319210-11Z	Vial Water preserved split	B	NA		5.3	Y	Absent	**14-APR-23 17:31**	NYTCL-8260-R2(14)
L2319210-12A	Plastic 2oz unpreserved for TS	B	NA		5.3	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2319210-12B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		5.3	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),PB-TI(180),CO-TI(180),V-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2319210-12C	Vial Large Septa unpreserved (4oz)	B	NA		5.3	Y	Absent		NYTCL-8260-R2(14)
L2319210-12D	Glass 250ml/8oz unpreserved	B	NA		5.3	Y	Absent		NYTCL-8270(14),NYTCL-8082(365)
L2319210-12X	Vial MeOH preserved split	B	NA		5.3	Y	Absent		NYTCL-8260-R2(14)
L2319210-12Y	Vial Water preserved split	B	NA		5.3	Y	Absent	**14-APR-23 17:31**	NYTCL-8260-R2(14)
L2319210-12Z	Vial Water preserved split	B	NA		5.3	Y	Absent	**14-APR-23 17:31**	NYTCL-8260-R2(14)
L2319210-13A	Vial HCl preserved	A	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L2319210-13B	Vial HCl preserved	A	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L2319210-13C	Vial HCl preserved	A	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L2319210-13D	Plastic 250ml HNO3 preserved	A	<2	<2	4.5	Y	Absent		FE-6020T(180),BA-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),NI-6020T(180),CA-6020T(180),K-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180),MG-6020T(180),HG-T(28),AL-6020T(180),CO-6020T(180)
L2319210-13E	Amber 250ml unpreserved	A	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2319210-13F	Amber 250ml unpreserved	A	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2319210-14A	Vial HCl preserved	A	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L2319210-14B	Vial HCl preserved	A	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L2319210-14C	Vial HCl preserved	A	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L2319210-14D	Plastic 250ml HNO3 preserved	A	<2	<2	4.5	Y	Absent		TL-6020T(180),FE-6020T(180),BA-6020T(180),SE-6020T(180),CR-6020T(180),CA-6020T(180),K-6020T(180),NI-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),MG-6020T(180),HG-T(28),AL-6020T(180),CD-6020T(180),AG-6020T(180),CO-6020T(180)
L2319210-14E	Amber 250ml unpreserved	A	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2319210-14F	Amber 250ml unpreserved	A	7	7	4.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

*Values in parentheses indicate holding time in days

Project Name: MARINE DRIVE PHASE I
Project Number: Z31.001.002

Lab Number: L2319210
Report Date: 04/18/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2319210-15A	Vial HCl preserved	A	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L2319210-15B	Vial HCl preserved	A	NA		4.5	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	MARINE DRIVE PHASE I	**Lab Number:**	L2319210
Project Number:	Z31.001.002	**Report Date:**	04/18/23

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:	MARINE DRIVE PHASE I	**Lab Number:**	L2319210
Project Number:	Z31.001.002	**Report Date:**	04/18/23

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:	MARINE DRIVE PHASE I	**Lab Number:**	L2319210
Project Number:	Z31.001.002	**Report Date:**	04/18/23

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:	MARINE DRIVE PHASE I	**Lab Number:**	L2319210
Project Number:	Z31.001.002	**Report Date:**	04/18/23

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, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, 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.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 4/12/23

ALPHA Job #: L2314210

Client Information
Client: C+S Engineers
Address: 141 Elm Street, Suite 100
Buffalo, NY 14203
Phone: (716) 847-1630
Fax:
Email: cmartin@CSCOS.com

Project Information
Project Name: Marine Drive Phase I
Project Location: Buffalo, NY
Project #: Z31.001.002
(Use Project name as Project #)
Project Manager: Cody Martin
ALPHAQuote #:

Turn-Around Time
Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

Deliverables
[ ] ASP-A [X] ASP-B
[X] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Regulatory Requirement
[ ] NY TOGS [X] NY Part 375
[ ] AWQ Standards [ ] NY CP-51
[ ] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

Billing Information
[X] Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL-8080+8270	Total Hg+Total Metals	NYTCL-8260	TS	Sample Specific Comments	Total Bottle
14210-01	SB-01-5-6 ft	4/10/2023	0920	S	JAW	X	X	X	X		4
02	SB-02-4-5 ft		1000			X	X	X	X		4
03	SB-03-4-5 ft		1030			X	X	X	X		4
04	SB-05-4-5 ft		1240			X	X	X	X		4
05	SB-05-7-8 ft		1240				X	X			2
06	SB-06-3-4 ft		1315			X	X	X	X		4
07	SB-07-1-2 ft		1345			X	X	X	X		4
08	SB-08-8-9 ft	↓	1420			X	X	X	X		4
09	SB-09-8-9 ft	4/11/2023	0930			X	X	X	X		4
10	SB-10-8-9 ft	↓	1010	↓	↓	X	X	X	X		4

Container Type	G	G	V	P				
Preservative	A	A	A	A				

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Jesse Alt-Wirz. (C+S)	4/11/2023 1555	[signature]	4/11/23 1555
[signature]	4/11/23 1555	[signature]	4/12/23 0050

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 4/12/23

ALPHA Job #: L2314210

Client Information

Client: C+S Engineers
Address: 141 Elm Street, Suite 100
Buffalo, NY 14203
Phone: (716) 847-1630
Fax:
Email: CMartin@CSCOS.com

Project Information

Project Name: Marine Drive Phase I
Project Location: Buffalo, NY
Project #: Z31.001.002
(Use Project name as Project #) ☐
Project Manager: Cody Martin
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☒ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☒ NY TOGS ☒ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☒ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL-8260-8270	Total Hg + Total Metals	NYTCL-8260	TS	NYTCL-8270	Total Hg + Total Metals	NYTCL-8260	Sample Specific Comments	Total Bottle
L2310-11	SB-11-1-2 ft	4/11/2023	1100	S	JAW	X	X	X	X					4
12	SB-12-4-5 ft	4/10/2023	1500	S	↓	X	X	X	X					4
13	TMW-01	4/11/2023	1330	GW						X	X	X		6
14	TMW-02	4/11/2023	1430	GW						X	X	X		6

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
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Container Code
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Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	G	G	V	P	A	P	V	
Preservative	A	A	A	A	A	C	B	

Relinquished By:	Date/Time	Received By:	Date/Time
Jesse Abt-Wing (C+S)	4/11/2023 1555		4/11/23 1555
	4/11/23 1553		4/12/23 0850

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