Appendix F.3a
Hazardous Materials Investigation and Findings Reports
(August 2022)

SUBSURFACE ENVIRONMENTAL SITE INVESTIGATION REPORT
NORTH/WEST BATTERY PARK CITY RESILIENCY PROJECT
NEW YORK, NEW YORK

MATRIXNEWORLD

Engineering Progress

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August 2022

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1.0 INTRODUCTION

Matrix New World Engineering, Land Surveying, and Landscape Architecture, P.C. (Matrix) was retained by AECOM USA, Inc. (AECOM) on behalf of the Battery Park City Authority (BPCA) to provide environmental consulting services in connection with the proposed project, which will provide flood risk reduction for Battery Park City (BPC) and its residents. Matrix conducted environmental investigation activities to determine if contaminated or hazardous materials are present within the Project area's subsurface, which may be disturbed or removed during proposed construction/rehabilitation activities.

The North/West Battery Park City Resiliency Project contemplates the creation of an integrated coastal flood risk management system from First Place, north along the Battery Park City Esplanade, across to the east side of West Street/Route 9A, east across North Moore Street and terminates at a high point on Greenwich Street (the Site).

Matrix performed a Corridor Environmental Site Assessment (ESA) in July 2021 as part of a due diligence evaluation to assess potential environmental impacts that may affect the project or the community/construction workers during construction. The results of the ESA identified multiple Recognized Environmental Conditions (RECs) along the proposed alignment, or in the immediate area, which may have impacted subsurface conditions. The Corridor ESA revealed the following RECs in connection with the Site:

REC-ID	Description
1	Historic Fill (site wide)
2	Current and Historical Dry-Cleaning Facilities

This subsurface environmental investigation was performed to investigate the above RECs; characterize soil and groundwater conditions in the project area to ensure proper handling and/or disposal of these materials during construction; and inform the bidding contractor on potential needs for worker health and safety. This investigation was also completed to support the environmental review effort required to prepare an Environmental Impact Statement (EIS) for the proposed project. The investigation was performed in accordance with the approved November 2021 Phase II Environmental Site Investigation Work Plan (ESI WP).

2.0 BACKGROUND

2.1 Site Description

The Site is an irregularly-shaped corridor stretching over one-mile long, generally located along the Manhattan shoreline with the Hudson River. The Site's land use consists of public rights-of-way, including an esplanade, parkland, and roadways. Matrix has divided the Site into two sections including the North Alignment and West Alignment (collectively, "the Alignment") as shown on Figures 1 and 2. These two sections were subdivided into:

- North Alignment:
  - N. Moore Street: located between West Street and Greenwich Street.
  - West Street: located between N Moore Street and the North Esplanade
  - North Esplanade: located between West Street/9A and the intersection of River Terrace and Chambers Street
- West Alignment:
  - Rockefeller Park: located along River Terrace between Chambers Street and Belvedere Plaza.
  - Belvedere Plaza and North Cove: located along the BPC Esplanade from the north side of Belvedere Plaza to the north side of Esplanade Plaza.
  - BPC Esplanade Mid-Section: located on the inland side of the BPC Esplanade from the north side of Esplanade Plaza to 3rd Place.
  - South Cove: Directly adjoining the buildings on the BPC Esplanade between 3rd Place and 1st Place.

2.2 Topography

According to the USGS Topographic Map of Jersey City, NJ and Brooklyn, NY, elevation of the Alignment ranges from approximately 1 to 10 feet above mean sea level (amsl). On-site topographic slopes gradually downward to the west towards the Hudson River. The regional topographic gradient is to the west.

2.3 Soils

According to the USDA Web Soil Survey, the soils underlying the Alignment are made up of approximately 43.4% of Urban land-Laguardia complex (ULA), 39% Urban land, reclaimed substratum (UrA), 17% Laguardia-Urban land complex (LUA), and 0.6% of Urban land, tidal marsh substratum (UmA). All soil types for the Site corridor are described as having 0 to 3% slopes.

Soil lithology observed during the West Alignment investigation typically consisted of apparent fill material from below the surface cover to as deep as 20 feet below ground surface (ft-bgs). The fill consisted of brown and gray fine to medium-fine sands with trace fine gravel and some silt; varying amounts of brick and wood. Depth to water in the permanent and temporary wells the day they were installed ranged between 8.5 (well SB-13) and 14.1 ft-bgs

(well SB-17). Later gauging events indicated depth water ranged between 3.0 (well SB-26) to 14.1 ft-bgs (well SB-17). Organic odors were observed in SB-24; no other odors or obvious signs of staining or soil contamination were observed during field screening, other than anthropogenic fill during the environmental investigation. Signs of contamination were observed during the concurrent geotechnical investigation, including stains and odors associated with creosote-treated wood at boring BH-05A (from 8-22 ft-bgs) and a tar-like substance at boring BH-08 from 8-10 ft-bgs, and environmental samples were collected.

Soil lithology observed during the investigation of the North Alignment typically consisted of apparent fill material from below the surface cover to as deep as 8 ft-bgs. The fill consisted of brown and tan medium-fine to coarse-medium-fine sands with some gravel and varying amounts of brick. Beyond 10 ft-bgs, soil consisted of brown fine to medium-fine sand and silt with little gravel. Depth to water in the temporary well installed at SB-07 was measured at 9.9 ft-bgs. No odors or obvious signs of staining or soil contamination were observed during field screening, other than anthropogenic fill.

2.4 Geology

According to the USGS Geologic Map of the New York City Region, the Alignment is located on Cambrian/Ordovician metamorphic rocks (Iapetus Terrane). According to the New York State Department of Transportation (NYSDOT) Geotechnical Design Manual, Chapter 3 – Geology of New York State, the Alignment is located in the Manhattan Prong which includes a portion of Staten Island, all of Manhattan Island, a small portion of western Long Island and most of Westchester County.

3.0 SUBSURFACE INVESTIGATION METHODOLOGY

3.1 Environmental Investigation

This subsurface environmental investigation was performed to investigate the RECs identified during the July 2021 Corridor ESA that may impact the project; characterize soil and groundwater conditions in the project area to ensure proper handling and/or disposal of these materials during construction; and inform the bidding contractor on potential needs for worker health and safety. This investigation was also completed to support the environmental review effort required to prepare an EIS for the proposed project.

All field activities were conducted in accordance with the NYSDEC Division of Environmental Remediation-10 (DER-10) Technical Guidance for Site Investigation and Remediation, chapter 12 of the New York City Environmental Quality Review Technical Manual, and applicable NYSDEC Guidance Documents. Soil boring locations are shown on Figures 2A and 2B.

The environmental subsurface investigation included sampling from 30 environmental borings and nine groundwater monitoring wells. The borings were advanced by Eastern Environmental Solutions, Inc., a New York licensed environmental drilling contractor. Eight permanent monitoring wells were installed and groundwater samples were collected at locations SB-13, SB-16, SB-17, SB-20, SB-21, SB-24, SB-26, and SB-29. Additionally, one temporary monitoring well was installed at SB-07 and one groundwater sample was collected. Two more temporary wells were proposed for the North Moore and West Street areas but were not feasible due to the density of subsurface utilities in the area that were encountered during pre-drilling geophysical clearance, as described in Section 3.1.1. The utility network beneath North Moore and West Streets was observed to be very dense, which limited potential drilling location adjustments within the sidewalk. Attempts were made to install two temporary wellpoints at these locations and refusal was encountered multiple times before groundwater could be reached. No additional space was available to further offset the drilling locations safely, based on the utilities and publicly-owned right-of-way

Matrix environmental staff also observed geotechnical borings advanced along the Right of Way (ROW) in the North Cove and the north end of the South Cove areas from March 1 through March 30, 2022 for any signs of obvious contamination. One sample was taken at BH-08 due a tar-like substance visually observed in the soil with a photoionization detector (PID) reading of 1.6 ppm. A sample was also collected at BH-05A (designated with the sample ID SB-05A) due to hydrocarbon odors, sheen, suspected creosote coated wood, and a PID reading of 57.7 ppm. Results from these samples are discussed and included herein, along with the results from the environmental borings.

3.1.1 Geophysical Investigation

On November 29, 2021, geophysical technicians from Nova Geophysical Engineering Services (Nova), a subcontractor to Eastern, conducted a survey of the investigation area for the presence of any underground utilities or obstructions. An additional geophysical survey was conducted by Nova on May 9, 2022, for borings located within the North Alignment, after public utility markouts revealed an extremely dense network of utilities along West Street and North Moore Street. The geophysical investigations were limited to the areas surrounding the proposed environmental boring locations. Results of the geophysical investigation cleared all proposed boring locations of underground utilities and obstructions. Where necessary, soil borings were relocated slightly so as not to encounter potential utilities and some locations along West Street and North Moore Street were limited to hand clearance where drilling was not safe or accessible.

3.1.2 Soil Borings and Soil Sample Collection

The investigation of the West Alignment was conducted from December 2, through December 17, 2021. Eastern advanced 19 borings, SB-11 through SB-21 and SB-23 through SB-30, to a depth of either 5 or 20 ft-bgs, depending on proposed construction details. Soil boring locations are shown on the attached Figures 2A and 2B. Borings were advanced using a direct-push Geoprobe® rig under the oversight of a Matrix Environmental Scientist. Matrix logged soils, noting the presence of any staining, odors, and/or free product, as well as screened for organic vapors with a PID.

For the boring locations extending to 5 ft-bgs, one soil sample was collected from the interval 0-2-feet immediately below the surface cover at each boring. For the boring locations extending to 20 ft-bgs, two soil samples were collected. A shallow sample was collected from each boring from the interval 0-2-feet immediately below the surface cover and a second deeper sample was collected from immediately above the water table interface, as there were no obvious indications of contamination during field screening. These samples were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs), TCL semi-volatile organic compounds (SVOCs), TCL polychlorinated biphenyls (PCBs), TCL pesticides, Target Analyte List (TAL) metals including total cyanide, and hexavalent chromium. A portion of each discrete soil sample was collected from within the 6-inch interval with the highest PID reading or visual evidence of contamination for VOC analysis.

In the North Alignment, borings were advanced utilizing hand tools and a direct-push Geoprobe® rig. One soil sample was collected from the interval 0-2-feet immediately below the surface cover at each boring location extending to 5 ft-bgs. For the boring locations extending to 22 ft-bgs, a second deeper sample was collected from immediately above the water table interface, as there were no obvious indications of contamination during field screening. These samples were analyzed for TCL VOCs. In addition, one composite sample made up of soil of the entire boring column was collected from each location and analyzed for TCL SVOCs, TCL PCBs, TCL pesticides, TCL herbicides, and TAL metals including total cyanide and hexavalent chromium.

Additionally, composite samples were collected from soils throughout the depth of soil column for waste classification parameters, including Toxicity Characteristic Leaching Procedure (TCLP analysis) and Resource Conservation and Recovery Act (RCRA) hazardous characteristics analyses. Composite samples were generally collected from two-to-three borings each; however, at two locations in the North Alignment (SB-01 & SB-08), field logistics required collection from only one boring, due to phasing and distance between borings. The borings were backfilled with soil cuttings upon completion of the boreholes and sealed with asphalt to match the original cover.

Samples were placed in laboratory-supplied bottle-ware and placed in dedicated coolers packed with ice. Chain-of-custody documentation accompanied the samples from collection to analysis. All analyses were conducted by Alpha Analytical, Inc. (Alpha) of Westborough, Massachusetts, a New York ELAP-certified facility.

3.1.3 Permanent/Temporary Monitoring Well Installation and Groundwater Sampling

Eight permanent monitoring wells were installed and groundwater samples were collected at the locations of environmental borings SB-13, SB-16, SB-17, SB-20, SB-21, SB-24, SB-26, and SB-29. Additionally, one temporary monitoring well was installed at SB-07 and one groundwater sample was collected. Depth to water in the wells the day they were installed ranged between 8.5 (well SB-13) and 14.1 ft-bgs (well SB-17). Later gauging events indicated depth to water ranged between 3.0 (well SB-26) to 14.1 ft-bgs (well SB-17). The wells were installed to depths of 17-20 ft-bgs and were purged for approximately three to five well volumes using a peristaltic pump prior to sample collection. Due to the presence of underground utilities and multiple drilling attempts, temporary wells could not be installed as planned at SB-01 and SB-04. Monitoring well construction logs can be found in Appendix A and a summary of permanent monitoring well construction details and groundwater elevations is presented in Table 5.

The groundwater samples were analyzed for TCL VOCs, TCL SVOCs, TCL pesticides, TCL herbicides, TCL PCBs, TAL metals (total and dissolved), total cyanide, and hexavalent chromium. Samples were placed in laboratory-supplied bottle-ware and placed in dedicated coolers packed with ice. Chain-of-custody documentation accompanied the samples from collection to analysis. All analyses were conducted by Alpha.

4.0 FINDINGS

4.1 Geophysical Investigation

The geophysical investigation was limited to the areas surrounding the proposed environmental boring locations. Results of the geophysical investigation cleared all proposed boring locations of underground utilities and obstructions. If necessary, soil borings were relocated slightly so as not to encounter potential utilities.

4.2 Soil Lithology

The soil lithology observed during the investigation of the West Alignment typically consisted of apparent fill material from below the impervious cover to 20 ft-bgs. The fill consisted of brown and gray fine to medium-fine sands with trace fine gravel and some silt; varying amounts of brick and wood. Depth to water in the permanent wells ranged from 3.0 to 14.1 ft-bgs in wells SB-26 and SB-17, respectively. Signs of contamination were observed during the concurrent geotechnical investigation, including stains and odors associated with creosote-treated wood at boring BH-05A (from 8-22 ft-bgs) and a tar-like substance at boring BH-08 from 8-10 ft-bgs; with maximum PID readings of 57.7 parts-per-million (ppm) in BH-05A at 8-10 ft-bgs and 1.6 ppm in BH-08 at 8-10 ft-bgs. No other significant PID readings were observed in Site soils, and no other obvious signs of contamination were observed. Organic odors were observed in SB-24 at a depth of 12-20 ft-bgs.

Soil lithology observed during the investigation of the North Alignment typically consisted of apparent fill material from below the surface cover to as deep as 8 ft-bgs. The fill consisted of brown and tan medium-fine to coarse-medium-fine sands with some gravel; varying amounts of brick. Beyond 10 ft-bgs, soil consisted of brown fine to medium-fine sand and silt with little gravel. Depth to water in the temporary well at SB-07 was measured at 9.9 ft-bgs. No odors or obvious signs of staining or soil contamination were observed during field screening, other than anthropogenic fill.

Soil boring logs and temporary well logs are provided in Appendix A.

4.3 Analytical Results

Matrix submitted for analysis 38 grab soil samples, 2 duplicate soil samples, 9 groundwater samples, 2 duplicate groundwater samples, and 14 waste characterization composite samples. Field duplicates for each matrix, a field blank for each matrix, and 3 trip blanks were also submitted to the laboratory for quality assurance/quality control. Soil and groundwater analytical data are presented in Tables 1 through 3 and summary tables and descriptions of exceedances are detailed in the following sections. Quality control and quality assurance sample results are presented in Table 4.

The applicable remediation standards for this Site include:

- Soil – NYSDEC Title 6 New York Code Rules and Regulations (NYCRR) Part 375-6 Residential Soil

Cleanup Objectives (RSCOs), Restricted Residential Soil Cleanup Objectives (RRSCOs), and Protection of Groundwater Soil Cleanup Objectives (PGWSCOs). Results were also compared to the Unrestricted Use SCOs (UUSCOs), the most stringent criteria for the Site.

- Waste Classification – 40CFR Part 261, Table 1: EPA's Maximum Concentration of Contaminants for the Toxicity Characteristic.
- Groundwater – New York Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values (NYS AWQS) Class GA criteria

4.3.1 Soil Analytical Results

VOCs

Naphthalene was detected exceeding its RRSCO of 100 mg/kg at a concentration of 610 mg/kg in sample SB-05A (8-10), collected from geotechnical boring BH-05A due to obvious signs of contamination. No other VOCs were detected exceeding the most stringent SCOs except for acetone in sample SB-01 (0-2). However, acetone is a common laboratory contaminant and not expected to be indicative of on-Site conditions.

SVOCs

SVOCs were detected exceeding the UUSCOs, RSCOs, RRSCOs and PGWSCOs in sample COMP SB-08 (0-5), SB17 (1-3.5), and SB-05A (8-10), collected from geotechnical boring BH-05A, and above the RSCOs in samples COMP SB-06 (0-5) and. A summary of SVOC exceedances is shown in the table below. No other samples exhibited SVOC concentrations exceeding the most stringent SCOs.

SVOC Exceedance Summary Table

Sample ID	SB-05A (8-10) [BH-05A]	COMP SB-06 (0-5)	COMP SB-08 (0-5)	SB17 (1-3.5)	UUSCO	RSCO	RRSCO	PGWSCO
Acenaphthene	**52**	0.86J	6.6	0.076J	20	100	100	98
Benzo[a]anthracene	**13**	0.81	**26**	**2.6**	1	1	1	1
Benzo[a]pyrene	**5.9**	0.82	**27**	**2.7**	1	1	1	22
Benzo[b]fluoranthene	**9.1**	0.96	**26**	**3.6**	1	1	1	1.7
Benzo(k)fluoranthene	**2.4**	0.26	**2.8**	**0.92**	0.8	1	3.9	1.7
Chrysene	**8.7**	0.79	**24**	**2.3**	1	1	3.9	1
Dibenzo[a,h]anthracene	**0.45**	0.12	**2.2**	**0.49**	0.33	0.33	0.33	1000
Dibenzofuran	**29**	0.053J	5.1	0.029J	7	14	59	210
Fluorene	**33**	0.084J	7.2	0.072J	30	100	100	386
Indeno[1,2,3-cd]pyrene	**2.4J**	**0.56**	**18**	**2.1**	0.5	0.5	0.5	8.2
Naphthalene	**86**	0.043J	3.8	0.089J	12	100	100	12

Sample ID	SB-05A (8-10) [BH-05A]	COMP SB-06 (0-5)	COMP SB-08 (0-5)	SB17 (1-3.5)	UUSCO	RSCO	RRSCO	PGWSCO
Phenanthrene	**100**	0.98	33E	1.4	100	100	100	1000

Concentrations shown are mg/kg
J – estimated concentration

Concentration exceeds UUSCO	**Concentration exceeds PGWSCO & UUSCO**
Concentration exceeds RSCO & UUSCO	**Concentration exceeds PGWSCO, RSCO & UUSCO**
Concentration exceeds RRSCO, RSCO & UUSCO	**Concentration Exceeds PGWSCO, RRSCO, RSCO & UUSCO**

Chlorinated Herbicides

Chlorinated herbicides were not detected exceeding the most stringent SCOs.

Pesticides

Pesticides were detected exceeding the UUSCOs in samples COMP SB-04 (0-4), COMP SB-06 (0-5), SB23 (1-3), SB-24 (1-4), and SB-25 (1-3). 4,4'-DDE, 4,4'-DDT and dieldrin were detected exceeding their respective USCOs in the samples above. Dieldrin was only detected exceeding its UUSCO of 0.005 mg/kg in sample SB25 (1-3) at a concentration of 0.00669 mg/kg. A summary of pesticide exceedances are shown in the table below. No pesticides were detected above the RSCOs and no other pesticides were detected exceeding the most stringent SCOs other than those listed. The detection limits for pesticides exceeded the UUSCO at COMP SB-04 (0-4), COMP SB-05 (0-5), SB-05A (collected from geotechnical boring BH-05A), COMP SB-08 (0-5), and BH-08, which can occur due to interference from the soil matrix or elevated levels of other compounds and are indicated below.

Pesticides Exceedance Summary Table

Sample ID	COMP SB-04 (0-4)	SB-05A	COMP SB-06 (0-5)	COMP SB-09 (0-5)	UUSCO
4,4'-DDD	***0.017U***	**0.00765P**	0.000588J	0.00216U	**0.0033**
4,4'-DDE	**0.0131JP**	0.00199U	0.00182	**0.00431P**	**0.0033**
4,4'-DDT	***0.0319U***	***0.00373U***	**0.00342**	**0.00494IP**	**0.0033**
Dieldrin	***0.0106U***	0.00124	0.00074J	0.003	**0.005**

Sample ID	COMP SB-10 (0-5)	SOIL DUP [COMP SB-10 (0-5)]	SB23 (1-3)	SB-24 (1-4)	SB25 (1-3)	UUSCO
4,4'-DDD	0.00119J	0.00198	0.000726J	0.00171U	0.0017U	**0.0033**
4,4'-DDE	**0.00435**	**0.00401**	0.0016J	**0.00372**	0.00227	**0.0033**
4,4'-DDT	**0.00372IP**	**0.00422IP**	**0.00664**	**0.00634**	0.00318U	**0.0033**
Dieldrin	0.00114U	0.00112U	0.00107U	0.00138	**0.00669P**	**0.005**

Concentrations shown are mg/kg
J = Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.
P = The RPD between the results for the two columns exceeds the method-specified criteria.
U = Not detected at the reported detection limit for the sample.
Reporting Limit Exceeds UUSCO
Concentration Exceeds UUSCO

PCBs

Aroclor 1254 was detected exceeding the RRSCO and UUSCO for total PCBs of 1 mg/kg and 0.1 mg/kg, respectively, with a concentration of 1.74 mg/kg in sample SB28 (1-3). No other PCBs were detected exceeding the most stringent SCOs.

Metals and Cyanide

Several metals, including copper, lead, mercury, nickel, and zinc were detected exceeding their respective UUSCOs in samples COMP SB-03 (0-5), COMP SB-08 (0-5), COMP SB-10 (0-5), SB-23 (1-3), SB-24 (10-12), SB-25 (1-3), SB-26 (1-3), SB28 (1-3), SB29 (1-3), BH-08. No metals were detected in excess of the RSCOs and no other metals, including hexavalent chromium and cyanide, were detected in excess of the UUSCO in any soil sample.

A summary of metals exceedances is shown in the table below.

Metals Exceedance Summary Table

Sample ID	COMP SB-03 (0-5)	SB-05A (8-10)	COMP SB-08 (0-5)	COMP SB-10 (0-5)	SB-23 (1-3)	SB-24 (10-12)	UUSCO
Copper	**63.2**	18.2	20.5	26.3	14.8	**74.2**	**50**
Lead	**300**	11.5	44.1	**128**	44.2	16.2	**63**
Mercury	**0.275**	0.094U	**0.209**	0.114	**0.191**	**0.268**	**0.18**
Nickel	17.7	10.1	12.2	8.64	9.9	7.79	**30**
Zinc	57.7	**146**	72.8	**118**	58.8	20.9	**109**

Sample ID	SB-25 (1-3)	SB-26 (1-3)	SB28 (1-3)	SB29 (1-3)	BH-08	UUSCO
Copper	32.8	21.1	24.4	19.4	**69.8**	**50**
Lead	**113**	59.2	55.8	34.9	**69.5**	**63**
Mercury	**0.199**	**0.212**	**0.276**	**0.181**	**0.268**	**0.18**
Nickel	**86.4**	**38.8**	**99**	**57.8**	**32.3**	**30**
Zinc	96.1	58.6	69.3	44.9	91.4	**109**

Concentrations shown are mg/kg
U = Not detected at the reported detection limit for the sample.
Exceeds UUSCO

4.3.2 Waste Classification Analytical Results

No samples were detected above the EPA Maximum Concentration of Contaminants for TCLP metals standards. Soils did not exhibit hazardous waste characteristics for ignitability or reactivity, as compared to the applicable RCRA thresholds and were negative for paint filter. Additionally, the pH of the samples collected ranged from 7.8 to 11.4.

4.3.3 Groundwater Analytical Results

VOCs

No VOCs were detected exceeding their NY TOGS Class GA Groundwater Standards except for vinyl chloride which was detected at a concentration of 2 ug/L in sample TWP-07 and 2.1 ug/L in the groundwater duplicate sample collected from TWP-07, collected at SB-07.

SVOCs

Various SVOC compounds were detected exceeding NY TOGS Class GA groundwater standards. SVOC exceedances were detected in groundwater samples TWP-07, SB13, SB17, SB20, SB20, SB26DUP, and SB29. All compounds detected were PAHs, including: benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo(k)fluoranthene, chrysene, and indeno[1,2,3-cd]pyrene. A summary of SVOC exceedances is shown in the table below.

SVOC Exceedance Summary Table

Sample ID	TWP-07	SB13	SB17	SB20	SB21	SB26DUP	SB29	NY TOGS Class GA Groundwater Standards
Benzo[a]anthracene	**0.04J**	**0.04J**	*0.1U*	**0.03J**	**0.05J**	*0.1U*	**0.08J**	**0.002**
Benzo[a]pyrene	**0.02J**	**0.02J**	*0.1U*	*0.1U*	**0.03J**	*0.1U*	**0.06J**	**0.002**
Benzo[b]fluoranthene	**0.03J**	**0.02J**	*0.1U*	**0.01J**	**0.04J**	*0.1U*	**0.1**	**0.002**
Benzo(k)fluoranthene	**0.02J**	**0.02J**	*0.1U*	*0.1U*	**0.04J**	*0.1U*	**0.03J**	**0.002**
Chrysene	**0.02J**	**0.03J**	**0.02J**	*0.1U*	**0.04J**	**0.02J**	**0.09J**	**0.002**
Indeno[1,2,3-cd]pyrene	**0.02J**	**0.02J**	*0.1U*	*0.1U*	**0.04J**	*0.1U*	**0.06J**	**0.002**

Concentrations shown are ug/L
J = Estimated concentration below laboratory reporting limit
U = Not detected at the reported detection limit for the sample.
Reporting Limit Exceeds NYS AWQS
Concentration Exceeds NYS AWQS

Chlorinated Herbicides, Pesticides, and PCBs

Chlorinated herbicides, pesticides, and PCBs were not detected exceeding NY TOGS Class GA groundwater standards in any of the groundwater samples collected.

Metals and Cyanide

Both total and dissolved metals were analyzed for each sample. Numerous metals were detected above the NY TOGS Class GA groundwater samples in the unfiltered groundwater samples, but only four dissolved metals were detected in each of the groundwater samples in excess of NY TOGS Class GA groundwater standards. Metals detected in both the total and dissolved metals analysis in excess of the TOGS standards include iron, magnesium, manganese, and sodium. Cyanide was not detected in any groundwater sample. A summary of total metals compounds and dissolved metals exceedances are shown in the table below.

Dissolved Metals Exceedance Summary Table

Sample ID	TWP-07	GW DUP	SB13	SB16	SB17	NY TOGS Class GA Groundwater Standards
Iron	31.6J	24.5J	100U	250U	*500U*	**600**
Magnesium	**110000**	**107000**	**150000**	**490000**	5030	**35,000**
Manganese	**3100**	**2815**	1.63J	2.2J	**499.2**	**300**
Sodium	**1280000**	**1200000**	**1260000**	**4020000**	16300	**20,000**

Sample ID	SB20	SB21	SB24	SB26	SB26 DUP	SB29	NY TOGS Class GA Groundwater Standards
Iron	**1370**	**596**	55	*500U*	*500U*	50U	**600**
Magnesium	7640	7910	18000	**588000**	**534000**	**405000**	**35,000**
Manganese	**1088**	**489.3**	119	60.62	41.72	1.89	**300**
Sodium	14200	18700	**108000**	**4810000**	**4830000**	**3490000**	**20,000**

Concentrations shown are ug/L
Reporting Limit Exceeds NYS AWQS
Concentration Exceeds NYS AWQS
J = Estimated concentration below laboratory reporting limit
U = Not detected at the reported detection limit for the sample.

Total Metals Exceedance Summary Table

Sample ID	TWP-07	GW DUP	SB13	SB16	SB17	NY TOGS Class GA Groundwater Standards
Arsenic	**59.22**	**37.41**	2.21	1.34	2.73J	**25**
Barium	**1772**	**1532**	76.11	18.04	12.03	**1000**
Beryllium	**10.12**	**8.29**	1U	0.5U	*5U*	**3**
Chromium	**259.3**	**187.1**	0.88J	0.19J	3.17J	**50**
Copper	**539.6**	**411.4**		2.03	10U	**200**
Iron	**240000**	**223000**	98.6J	50.3	**1390**	**300**
Lead	**305.2**	**257.7**	2U	10U	10U	**25**
Magnesium	**151000**	**163000**	**147000**	**493000**	5190	**35000**
Manganese	**9196**	**9452**	2.96	0.76J	**496.2**	**300**
Nickel	**515.9**	**387**	4U	0.84J	20U	**100**
Selenium	**70.5**	**48.7**	*10U*	5U	*50U*	**10**
Sodium	**1460000**	**1390000**	**1220000**	**4370000**	16200	**20,000**

Sample ID	TWP-07	GW DUP	SB13	SB16	SB17	NY TOGS Class GA Groundwater Standards
Thallium	**2.84J**	**1.47J**	**2U**	*10U*	*10U*	**0.5**

Sample ID	SB20	SB21	SB24	SB26	SB26 DUP	SB29	NY TOGS Class GA Groundwater Standards
Arsenic	4.25	1.97	1.02	5U	5U	1.91J	**25**
Barium	8.99	13.84	3.68	38.74	38.51	24.29	**1000**
Beryllium	0.5U	0.5U	0.5U	*5U*	*5U*	*5U*	**3**
Chromium	2.25	2.95	0.64J		10U	10U	**50**
Copper	0.89J	1.45	1U	10U	10U	10U	**200**
Iron	**2850**	**2700**	234	*500U*	*500U*	*500*	**300**
Lead	0.97J	0.65J	1U	10U	10U	10U	**25**
Magnesium	7880	7680	18200	**500000**	**513000**	**368000**	**35000**
Manganese	**1050**	**527.5**	125.5	44.1	41.13	10U	**300**
Nickel	1.12J	1.08J	1.76J	12.46J	13.37J	20U	**100**
Selenium	5U	5U	5U	*50U*	*50U*	*50U*	**10**
Sodium	14400	17900	**100000**	**4730000**	**4800000**	**3570000**	**20,000**
Thallium	0.2J	*1U*	*1U*	*10U*	*10U*	*10U*	**0.5**

Concentrations shown are ug/L
Reporting Limit Exceeds NYS AWQS
Concentration Exceeds NYS AWQS
J = Estimated concentration below laboratory reporting limit
U = Not detected at the reported detection limit for the sample.

4.3.4 QA/QC Samples

Matrix collected three trip blanks, two field blanks (one soil and one groundwater), and four duplicate samples (two for soil and two for groundwater). Analytical results are presented in Table 4 and descriptions of results are detailed below.

- Trip blanks – VOCs were not detected in any trip blank.
- Field blank (soil) - VOCs, SVOCs, metals, PCBs, and pesticides were not detected in this field blank except for arsenic and iron at concentrations of 2 and 11 ug/L, respectively.
- Field blank (groundwater) – VOCs, SVOCs, metals, PCBs, and pesticides were not detected in this field blank except for chrysene at a concentration of 0.08 ug/L and barium at a concentration of 0.2 ug/L.
- Duplicate sample (soil) – One soil duplicate sample was collected from the same interval as SB13 (1-3) and a second duplicate sample was collected from the same interval as COMP (SB-10). There were no exceedances above the most stringent SCOs, which matched the base sample for the duplicate sample collected at SB13. The duplicate sample collected from SB-10 had two pesticide exceedances, 4,4'-DDE and 4,4'-DDT, which matched the base sample.
- Duplicate sample (groundwater) - One groundwater duplicate sample was collected from the well that was installed at SB-26 and a second duplicate sample was collected from TWP-07. The only result in the duplicate sample collected from SB-26 that differed from the original sample was chrysene which was detected at a concentration of 0.02 ug/L in the duplicate sample and was not detected in the original sample.

The only results that differed in the duplicate sample collected from TWP-07 were SVOCs, no SVOCs were detected in the duplicate sample whereas several PAHs were detected in the original sample.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The results of Matrix's soil investigation do not indicate evidence of a petroleum spill or other release in the potential construction area. The analytical results do not require spill reporting to the NYSDEC.

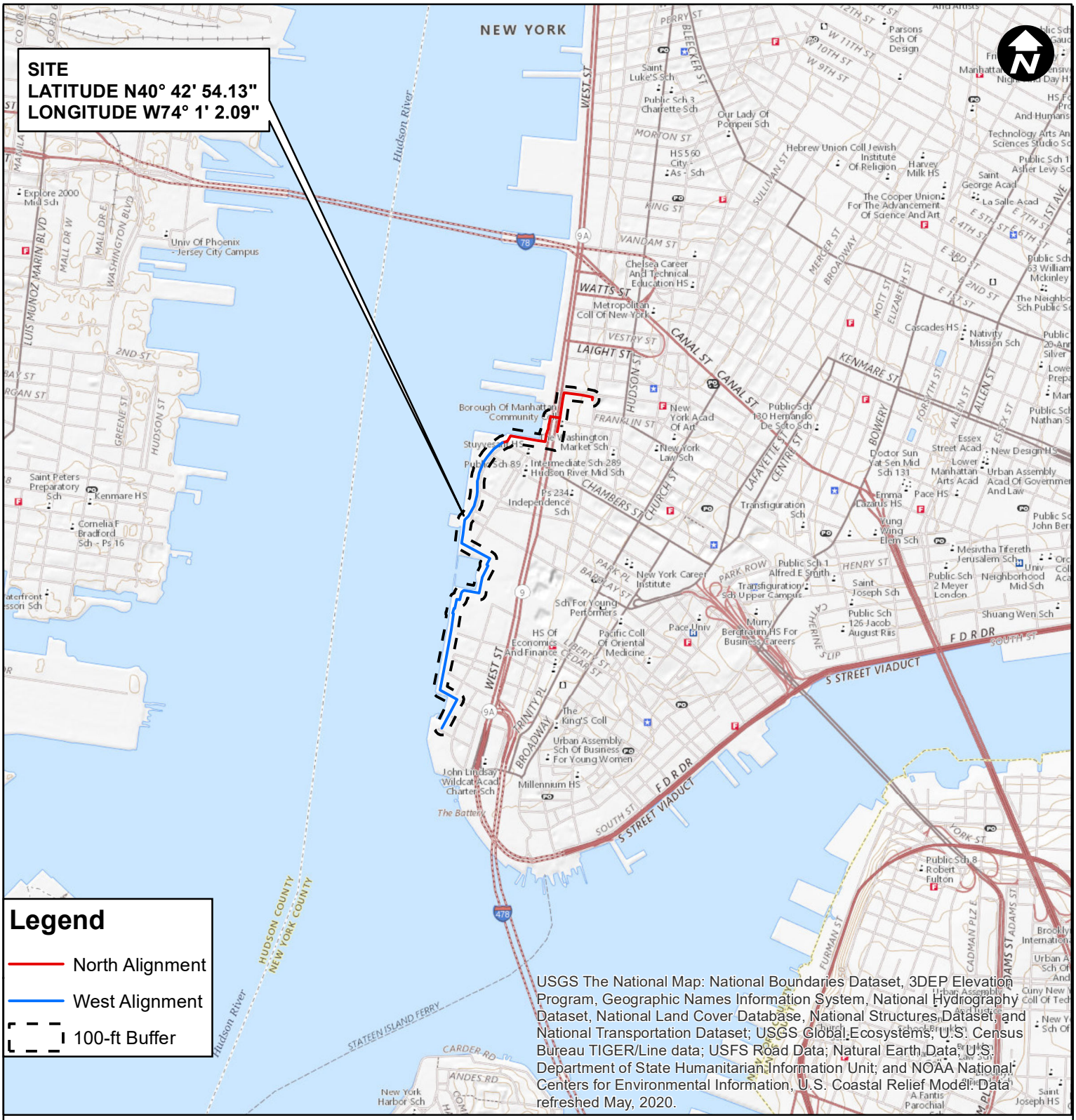
Obvious signs of fill, such as wood fragments, brick fragments, and polystyrene foam were encountered in many soil boring locations throughout both the North and West Alignments. Analytical results also indicate that historic fill is present across the Site with elevated VOCs, SVOCs, and PCBs detected above RRSCOs and UUSCOs, and pesticides and metals above UUSCOs. The concentrations detected were typical of fill soils. Obvious signs of contamination were observed at the location of BH-05A from 8-22 ft-bgs and BH-08 from 8-10 ft-bgs. Soil sampled from BH-05A (designated as sample "SB-05A") contained naphthalene above its UUSCO, which is consistent with contamination from creosote-treated wood. Soil sampled from BH-08 detected metals exceeding UUSCOs and no exceedances of organic compounds, suggesting the tar-like material was a historical release which naturally degraded over time. Similar impacts were not observed elsewhere in the boring column or in other nearby borings.

During construction activities, all excavated soil and fill may be used as backfill for the excavation from which it was removed, or in other areas where surrounding soils have similar characteristics. Per NYCRR 360.13, based on the analytical results, all soils except for those in the area of BH-05A (sampled as "SB-05A"), SB-06, SB-08, SB-17 and SB-28 meet the requirements of General Fill and can be beneficially reused off-site in accordance with the regulations. Depending on ultimate disposal volumes, additional sampling may be necessary to meet frequency requirements required by 360.13. Due to elevated SVOC concentrations at SB-05A (from boring BH-05A), SB-06, SB-08, and SB-17 and PCB concentrations at SB-28, soils in those areas are not eligible for any of the established beneficial reuse classifications.

Excavated soil may be disposed off-site at a facility licensed to accept historic fill and contaminated soil. Based on the results of the waste classification analyses, Site soils would not be considered hazardous for transport and disposal purposes. The data provided in this report may be provided to a disposal facility to facilitate ultimate disposal options and costs, although the accepting facility may require additional analytical data, depending on specific facility requirements and the quantity of soils to be transported off Site. Disposal and transportation methods should comply with all 6 NYCRR part 360 & 364 regulations.

Groundwater analytical results indicated that Site groundwater contains SVOCs and metals exceeding the TOGS groundwater AWQS, which is consistent with groundwater present in areas of regional historic fill. Groundwater sampled from TWP-07 also detected vinyl chloride above its TOGS groundwater AWQS, suggesting contamination may be migrating from an upgradient source. If dewatering is required during construction, additional groundwater samples may need to be taken in order to obtain a NYCDEP sewer discharge permit.

FIGURES



REGIONAL LOCATION MAP

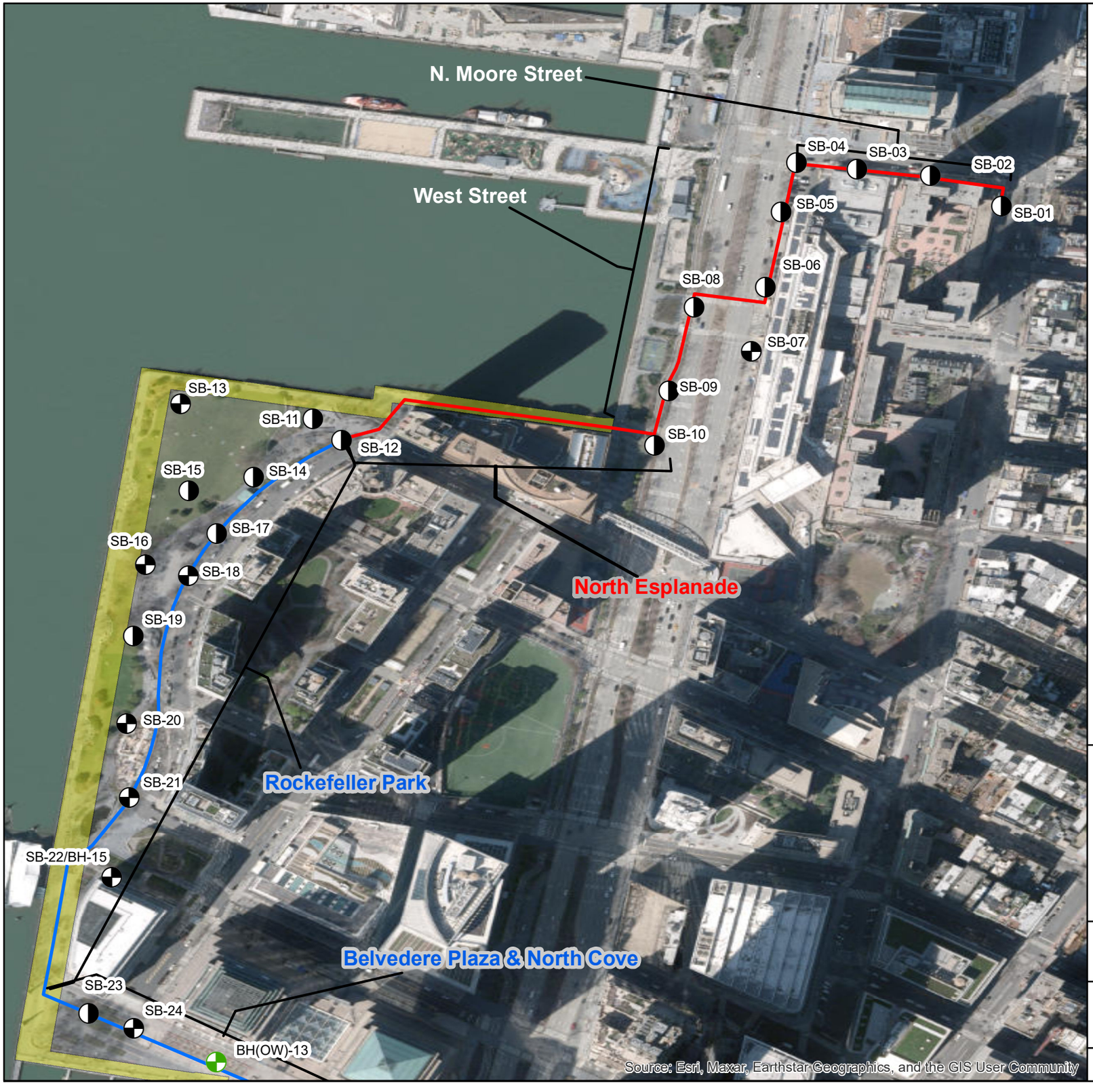
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NORTH/WEST BATTERY PARK CITY RESILIENCY PROJECT
BATTERY PARK CITY AUTHORITY
NEW YORK, NEW YORK

SCALE:	DATE:	JOB NO.:	FILENAME:	FIGURE NO.:
1:24,000	JULY 2021	20-1152	NWBPCregional.mxd	1



Legend

- North Alignment
- West Alignment
- Approximate Extents of Existing Platform

Environmental Boring Samples

- Completed Soil
- Completed Soil & Groundwater

Geotechnical Boring Samples

- Soil
- Soil & Groundwater

Notes:

1. Displayed geotechnical borings are limited to those from which Matrix has proposed to collect environmental samples.

2. Environmental samples were collected from geotechnical borings where soil with evidence of contamination was encountered within proposed construction depth.

3. Locations and names of geotechnical borings were provided by AECOM.

4. Platform area layout is approximated based on historical drawings and design estimates provided by AECOM.

0 200 400 600 800 Feet

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ENVIRONMENTAL SAMPLES PART 1 OF 2

NORTH/WEST BPC RESILIENCY PROJECT
BATTERY PARK CITY AUTHORITY
NEW YORK, NY

July 2022 | **Figure 2A**



Legend

- North Alignment
- West Alignment
- Approximate Extents of Existing Platform

Environmental Boring Samples

- Completed Soil
- Completed Soil & Groundwater

Geotechnical Boring Samples

- Soil
- Soil & Groundwater

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ENVIRONMENTAL SAMPLES PART 2 OF 2

NORTH/WEST BPC RESILIENCY PROJECT
BATTERY PARK CITY AUTHORITY
NEW YORK, NY

July 2022 | **Figure 2B**

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Engineering Progress

TABLES

Table 1
Soil Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

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SAMPLE ID:	Part 375 Unrestricted Use SCOs	Part 375 Residential SCOs	Part 375 Restricted-Residential SCOs	Part 375 Protection of Groundwater SCOs	SB-01(0-2)		COMP SB-01(0-4)		SB-02(0-2)		COMP SB-02(0-4.5)		SB-03(0-2)		COMP SB-03(0-5)		SB-04(0-2)	
LAB ID:					L2224285-01		L2224285-02 R1		L2223664-01		L2223664-02		L2223664-03		L2223664-04		L2224019-01	
COLLECTION DATE:					5/9/2022		5/9/2022		5/5/2022		5/5/2022		5/5/2022		5/5/2022		5/6/2022	
SAMPLE MATRIX:					Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore	
ANALYTE	mg/kg	mg/kg	mg/kg	mg/kg	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q
VOLATILE ORGANICS																		
1,1,1,2-Tetrachloroethane	NC	NC	NC	NC	0.00043	U	-	-	0.00036	U	-	-	0.00018	U	-	-	0.00042	U
1,1,1-Trichloroethane	0.68	100	100	NC	0.00043	U	-	-	0.00036	U	-	-	0.00018	U	-	-	0.00042	U
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.68	0.00043	U	-	-	0.00036	U	-	-	0.00018	U	-	-	0.00042	U
1,1,2-Trichloroethane	NC	NC	NC	NC	0.00087	U	-	-	0.00072	U	-	-	0.00036	U	-	-	0.00085	U
1,1-Dichloroethane	0.27	19	26	NC	0.00087	U	-	-	0.00072	U	-	-	0.00036	U	-	-	0.00085	U
1,1-Dichloroethene	0.33	100	100	0.27	0.00087	U	-	-	0.00072	U	-	-	0.00036	U	-	-	0.00085	U
1,1-Dichloropropene	NC	NC	NC	0.33	0.00043	U	-	-	0.00036	U	-	-	0.00018	U	-	-	0.00042	U
1,2,3-Trichlorobenzene	NC	NC	NC	NC	0.0017	U	-	-	0.0014	U	-	-	0.00071	U	-	-	0.0017	U
1,2,3-Trichloropropane	NC	NC	NC	NC	0.0017	U	-	-	0.0014	U	-	-	0.00071	U	-	-	0.0017	U
1,2,4,5-Tetramethylbenzene	NC	NC	NC	NC	0.0017	U	-	-	0.0014	U	-	-	0.00071	U	-	-	0.00016	J
1,2,4-Trichlorobenzene	NC	NC	NC	NC	0.0017	U	-	-	0.0014	U	-	-	0.00071	U	-	-	0.0017	U
1,2,4-Trimethylbenzene	3.6	47	52	NC	0.0017	U	-	-	0.0014	U	-	-	0.00071	U	-	-	0.0017	U
1,2-Dibromo-3-chloropropane	NC	NC	NC	3.6	0.0026	U	-	-	0.0021	U	-	-	0.0011	U	-	-	0.0026	U
1,2-Dibromoethane	NC	NC	NC	NC	0.00087	U	-	-	0.00072	U	-	-	0.00036	U	-	-	0.00085	U
1,2-Dichlorobenzene	1.1	100	100	NC	0.0017	U	-	-	0.0014	U	-	-	0.00071	U	-	-	0.0017	U
1,2-Dichloroethane	0.02	2.3	3.1	1.1	0.00087	U	-	-	0.00072	U	-	-	0.00036	U	-	-	0.00085	U
1,2-Dichloroethene, Total	NC	NC	NC	0.02	0.00087	U	-	-	0.00072	U	-	-	0.00036	U	-	-	0.00085	U
1,2-Dichloropropane	NC	NC	NC	NC	0.00087	U	-	-	0.00072	U	-	-	0.00036	U	-	-	0.00085	U
1,3,5-Trimethylbenzene	8.4	47	52	NC	0.0017	U	-	-	0.0014	U	-	-	0.00071	U	-	-	0.0017	U
1,3-Dichlorobenzene	2.4	17	49	8.4	0.0017	U	-	-	0.0014	U	-	-	0.00071	U	-	-	0.0017	U
1,3-Dichloropropane	NC	NC	NC	2.4	0.0017	U	-	-	0.0014	U	-	-	0.00071	U	-	-	0.0017	U
1,3-Dichloropropene, Total	NC	NC	NC	NC	0.00043	U	-	-	0.00036	U	-	-	0.00018	U	-	-	0.00042	U
1,4-Dichlorobenzene	1.8	9.8	13	NC	0.0017	U	-	-	0.0014	U	-	-	0.00071	U	-	-	0.0017	U
1,4-Dioxane	0.1	9.8	13	1.8	0.07	U	-	-	0.057	U	-	-	0.028	U	-	-	0.068	U
2,2-Dichloropropane	NC	NC	NC	0.1	0.0017	U	-	-	0.0014	U	-	-	0.00071	U	-	-	0.0017	U
2-Butanone	0.12	100	100	NC	0.005	J	-	-	0.0072	U	-	-	0.0012	J	-	-	0.0085	U
2-Hexanone	NC	NC	NC	0.12	0.0087	U	-	-	0.0072	U	-	-	0.0036	U	-	-	0.0085	U
4-Methyl-2-pentanone	NC	NC	NC	NC	0.0087	U	-	-	0.0072	U	-	-	0.0036	U	-	-	0.0085	U
Acetone	0.05	100	100	NC	0.1		-	-	0.04		-	-	0.017		-	-	0.011	
Acrylonitrile	NC	NC	NC	0.05	0.0035	U	-	-	0.0029	U	-	-	0.0014	U	-	-	0.0034	U
Benzene	0.06	2.9	4.8	NC	0.0005		-	-	0.00036	U	-	-	0.00018	U	-	-	0.001	
Bromobenzene	NC	NC	NC	0.06	0.0017	U	-	-	0.0014	U	-	-	0.00071	U	-	-	0.0017	U
Bromochloromethane	NC	NC	NC	NC	0.0017	U	-	-	0.0014	U	-	-	0.00071	U	-	-	0.0017	U
Bromodichloromethane	NC	NC	NC	NC	0.00043	U	-	-	0.00036	U	-	-	0.00018	U	-	-	0.00042	U
Bromoform	NC	NC	NC	NC	0.0035	U	-	-	0.0029	U	-	-	0.0014	U	-	-	0.0034	U
Bromomethane	NC	NC	NC	NC	0.0017	U	-	-	0.0014	U	-	-	0.00071	U	-	-	0.0017	U
Carbon disulfide	NC	NC	NC	NC	0.0087	U	-	-	0.0072	U	-	-	0.0036	U	-	-	0.0085	U
Carbon tetrachloride	0.76	1.4	2.4	NC	0.00087	U	-	-	0.00072	U	-	-	0.00036	U	-	-	0.00085	U
Chlorobenzene	1.1	100	100	0.76	0.00043	U	-	-	0.00036	U	-	-	0.00018	U	-	-	0.00042	U
Chloroethane	NC	NC	NC	1.1	0.0017	U	-	-	0.0014	U	-	-	0.00071	U	-	-	0.0017	U
Chloroform	0.37	10	49	NC	0.0013	U	-	-	0.0011	U	-	-	0.00053	U	-	-	0.0013	U
Chloromethane	NC	NC	NC	0.37	0.0035	U	-	-	0.0029	U	-	-	0.0014	U	-	-	0.0034	U
cis-1,2-Dichloroethene	0.25	59	100	NC	0.00087	U	-	-	0.00072	U	-	-	0.00036	U	-	-	0.00085	U
cis-1,3-Dichloropropene	NC	NC	NC	0.25	0.00043	U	-	-	0.00036	U	-	-	0.00018	U	-	-	0.00042	U
Dibromochloromethane	NC	NC	NC	NC	0.00087	U	-	-	0.00072	U	-	-	0.00036	U	-	-	0.00085	U
Dibromomethane	NC	NC	NC	NC	0.0017	U	-	-	0.0014	U	-	-	0.00071	U	-	-	0.0017	U
Dichlorodifluoromethane	NC	NC	NC	NC	0.0087	U	-	-	0.0072	U	-	-	0.0036	U	-	-	0.0085	U
Ethyl ether	NC	NC	NC	NC	0.0017	U	-	-	0.0014	U	-	-	0.00071	U	-	-	0.0017	U
Ethylbenzene	1	30	41	NC	0.00034	J	-	-	0.00072	U	-	-	0.00036	U	-	-	0.00085	U
Hexachlorobutadiene	NC	NC	NC	1	0.0035	U	-	-	0.0029	U	-	-	0.0014	U	-	-	0.0034	U
Isopropylbenzene	NC	NC	NC	NC	0.00087	U	-	-	0.00072	U	-	-	0.00036	U	-	-	0.00085	U
Methyl tert butyl ether	0.93	62	100	NC	0.0017	U	-	-	0.0014	U	-	-	0.00071	U	-	-	0.0017	U
Methylene chloride	0.05	51	100	0.93	0.0043	U	-	-	0.0036	U	-	-	0.0018	U	-	-	0.0042	U
n-Butylbenzene	12	100	100	0.05	0.00087	U	-	-	0.00072	U	-	-	0.00036	U	-	-	0.00085	U
n-Propylbenzene	3.9	100	100	12	0.00087	U	-	-	0.00072	U	-	-	0.00036	U	-	-	0.00085	U
Naphthalene	12	100	100	3.9	0.00063	J	-	-	0.0029	U	-	-	0.0014	U	-	-	0.0034	U
o-Chlorotoluene	NC	NC	NC	12	0.0017	U	-	-	0.0014	U	-	-	0.00071	U	-	-	0.0017	U
o-Xylene	NC	NC	NC	NC	0.00036	J	-	-	0.00072	U	-	-	0.00036	U	-	-	0.00085	U
p-Chlorotoluene	NC	NC	NC	NC	0.0017	U	-	-	0.0014	U	-	-	0.00071	U	-	-	0.0017	U
p-Diethylbenzene	NC	NC	NC	NC	0.0017	U	-	-	0.0014	U	-	-	0.00071	U	-	-	0.00017	J
p-Ethyltoluene	NC	NC	NC	NC	0.0017	U	-	-	0.0014	U	-	-	0.00071	U	-	-	0.0017	U
p-Isopropyltoluene	NC	NC	NC	NC	0.00087	U	-	-	0.00072	U	-	-	0.00036	U	-	-	0.00085	U
p/m-Xylene	NC	NC	NC	NC	0.0011	J	-	-	0.0014	U	-	-	0.00071	U	-	-	0.0017	U
sec-Butylbenzene	11	100	100	NC	0.00087	U	-	-	0.00072	U	-	-	0.00036	U	-	-	0.00085	U
Styrene	NC	NC	NC	11	0.00087	U	-	-	0.00072	U	-	-	0.00036	U	-	-	0.00085	U
tert-Butylbenzene	5.9	100	100	NC	0.0017	U	-	-	0.0014	U	-	-	0.00071	U	-	-	0.0017	U
Tetrachloroethene	1.3	5.5	19	5.9	0.00043	U	-	-	0.00036	U	-	-	0.00018	U	-	-	0.00042	U
Toluene	0.7	100	100	1.3	0.00087	U	-	-	0.00072	U	-	-	0.00036	U	-	-	0.00085	U
trans-1,2-Dichloroethene	0.19	100	100	0.7	0.0013	U	-	-	0.0011	U	-	-	0.00053	U	-	-	0.0013	U
trans-1,3-Dichloropropene	NC	NC	NC	0.19	0.00087	U	-	-	0.00072	U	-	-	0.00036	U	-	-	0.00085	U
trans-1,4-Dichloro-2-butene	NC	NC	NC	NC	0.0043	U	-	-	0.0036	U	-	-	0.0018	U	-	-	0.0042	U
Trichloroethene	0.47	10	21	NC	0.00043	U	-	-	0.00036	U	-	-	0.00018	U	-	-	0.00042	U
Trichlorofluoromethane	NC	NC	NC	0.47	0.0035	U	-	-	0.0029	U	-	-	0.0014	U	-	-	0.0034	U
Vinyl acetate	NC	NC	NC	NC	0.0087	U	-	-	0.0072	U	-	-	0.0036	U	-	-	0.0085	U
Vinyl chloride	0.02	0.21	0.9	NC	0.00087	U	-	-	0.00072	U	-	-	0.00036	U	-	-	0.00085	U
Xylenes, Total	0.26	100	100	0.02	0.0015	J	-	-	0.00072	U	-	-	0.00036	U	-	-	0.00085	U
Total TIC Compounds	NC	NC	NC	NC	0.00229	J	-	-	0	U	-	-	0.0026	J	-	-	0.0116	J

All analyitcal results for soil in milligrams per kilogram (mg/kg).

Q: Laboratory Qualifier

An empty Q column indicates no laboratory qualifier has been assigned.

U = Not detected at the reported detection limit for the sample.

R1 =reanalyzed

NC = No criteria established for this contaminant

E = Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J = Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

I - The lower value for the two columns has been reported due to obvious interference.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

d = For pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

"-" = Analyte not analyzed

UUSCO = NYSDEC's December 2006 Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375).

RSCO = NYSDEC's December 2006 Residential Use Soil Cleanup Objectives (6 NYCRR 375-6)

RRSCO = NYSDEC's December 2006 Restricted Residential Use Soil Cleanup Objectives (6 NYCRR 375-6)

PGWSCO = NYSDEC's December 2006 Protection to Groundwater Soil Cleanup Objectives (6 NYCRR 375-6)

Reporting Limit Exceedes UUSCO

Concentration exceeds UUSCO

Concentration exceeds RSCO & UUSCO

Concentration exceeds RRSCO, RSCO & UUSCO

Concentration exceeds PGWSCO & UUSCO

Concentration exceeds PGWSCO, RSCO & UUSCO

Concentration exceeds PGWSCO, RRSCO, RSCO & UUSCO

Table 1
Soil Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

MATRIXNEWORLD
Engineering Progress

SAMPLE ID:	Part 375 Unrestricted Use SCOs	Part 375 Residential SCOs	Part 375 Restricted-Residential SCOs	Part 375 Protection of Groundwater SCOs	SB-01(0-2)		COMP SB-01(0-4)		SB-02(0-2)		COMP SB-02(0-4.5)		SB-03(0-2)		COMP SB-03(0-5)		SB-04(0-2)	
LAB ID:					L2224285-01		L2224285-02 R1		L2223664-01		L2223664-02		L2223664-03		L2223664-04		L2224019-01	
COLLECTION DATE:					5/9/2022		5/9/2022		5/5/2022		5/5/2022		5/5/2022		5/5/2022		5/6/2022	
SAMPLE MATRIX:					Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore	
ANALYTE	mg/kg	mg/kg	mg/kg	mg/kg	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q
SEMI-VOLATILE ORGANICS																		
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
1,2,4-Trichlorobenzene	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
1,2-Dichlorobenzene	1.1	100	100	1.1	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
1,3-Dichlorobenzene	2.4	17	49	2.4	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
1,4-Dichlorobenzene	1.8	9.8	13	1.8	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
1,4-Dioxane	0.1	9.8	13	0.1	-	-	0.026	U	-	-	0.028	U	-	-	0.028	U	-	-
2,4,5-Trichlorophenol	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
2,4,6-Trichlorophenol	NC	NC	NC	NC	-	-	0.1	U	-	-	0.11	U	-	-	0.11	U	-	-
2,4-Dichlorophenol	NC	NC	NC	NC	-	-	0.15	U	-	-	0.17	U	-	-	0.17	U	-	-
2,4-Dimethylphenol	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
2,4-Dinitrophenol	NC	NC	NC	NC	-	-	0.82	U	-	-	0.89	U	-	-	0.89	U	-	-
2,4-Dinitrotoluene	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
2,6-Dinitrotoluene	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
2-Chloronaphthalene	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
2-Chlorophenol	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
2-Methylnaphthalene	NC	NC	NC	NC	-	-	0.21	U	-	-	0.22	U	-	-	0.22	U	-	-
2-Methylphenol	0.33	100	100	0.33	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
2-Nitroaniline	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
2-Nitrophenol	NC	NC	NC	NC	-	-	0.37	U	-	-	0.4	U	-	-	0.4	U	-	-
3,3'-Dichlorobenzidine	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
3-Methylphenol/4-Methylphenol	0.33	34	100	0.33	-	-	0.25	U	-	-	0.27	U	-	-	0.27	U	-	-
3-Nitroaniline	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
4,6-Dinitro-o-cresol	NC	NC	NC	NC	-	-	0.45	U	-	-	0.48	U	-	-	0.48	U	-	-
4-Bromophenyl phenyl ether	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
4-Chloroaniline	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
4-Nitroaniline	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
4-Nitrophenol	NC	NC	NC	NC	-	-	0.24	U	-	-	0.26	U	-	-	0.26	U	-	-
Acenaphthene	20	100	100	98	-	-	0.062	J	-	-	0.15	U	-	-	0.15	U	-	-
Acenaphthylene	100	100	100	107	-	-	0.14	U	-	-	0.039	J	-	-	0.15	U	-	-
Acetophenone	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
Anthracene	100	100	100	1000	-	-	0.14		-	-	0.059	J	-	-	0.061	J	-	-
Benzo(a)anthracene	1	1	1	1	-	-	0.4		-	-	0.4		-	-	0.45		-	-
Benzo(a)pyrene	1	1	1	22	-	-	0.34		-	-	0.46		-	-	0.5		-	-
Benzo(b)fluoranthene	1	1	1	1.7	-	-	0.37		-	-	0.55		-	-	0.54		-	-
Benzo(ghi)perylene	100	100	100	1000	-	-	0.22		-	-	0.31		-	-	0.28		-	-
Benzo(k)fluoranthene	0.8	1	3.9	1.7	-	-	0.16		-	-	0.15		-	-	0.53		-	-
Benzoic Acid	NC	NC	NC	NC	-	-	0.56	U	-	-	0.6	U	-	-	0.6	U	-	-
Benzyl Alcohol	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
Biphenyl	NC	NC	NC	NC	-	-	0.39	U	-	-	0.42	U	-	-	0.42	U	-	-
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	-	-	0.18	U	-	-	0.2	U	-	-	0.2	U	-	-
Bis(2-chloroethyl)ether	NC	NC	NC	NC	-	-	0.15	U	-	-	0.17	U	-	-	0.17	U	-	-
Bis(2-chloroisopropyl)ether	NC	NC	NC	NC	-	-	0.21	U	-	-	0.22	U	-	-	0.22	U	-	-
Bis(2-ethylhexyl)phthalate	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
Butyl benzyl phthalate	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
Carbazole	NC	NC	NC	NC	-	-	0.053	J	-	-	0.019	J	-	-	0.18	U	-	-
Chrysene	1	1	3.9	1	-	-	0.36		-	-	0.37		-	-	0.42		-	-
Di-n-butylphthalate	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
Di-n-octylphthalate	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
Dibenzo(a,h)anthracene	0.33	0.33	0.33	1000	-	-	0.058	J	-	-	0.075	J	-	-	0.071	J	-	-
Dibenzofuran	7	14	59	210	-	-	0.029	J	-	-	0.18	U	-	-	0.18	U	-	-
Diethyl phthalate	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
Dimethyl phthalate	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
Fluoranthene	100	100	100	1000	-	-	0.7		-	-	0.59		-	-	0.75		-	-
Fluorene	30	100	100	386	-	-	0.061	J	-	-	0.18	U	-	-	0.18	U	-	-
Hexachlorobenzene	0.33	0.33	1.2	3.2	-	-	0.1	U	-	-	0.11	U	-	-	0.11	U	-	-
Hexachlorobutadiene	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
Hexachlorocyclopentadiene	NC	NC	NC	NC	-	-	0.49	U	-	-	0.53	U	-	-	0.53	U	-	-
Hexachloroethane	NC	NC	NC	NC	-	-	0.14	U	-	-	0.15	U	-	-	0.15	U	-	-
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5	8.2	-	-	0.25		-	-	0.33		-	-	0.3		-	-
Isophorone	NC	NC	NC	NC	-	-	0.15	U	-	-	0.17	U	-	-	0.17	U	-	-
n-Nitrosodi-n-propylamine	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
Naphthalene	12	100	100	12	-	-	0.024	J	-	-	0.022	J	-	-	0.023	J	-	-
NDPA/DPA	NC	NC	NC	NC	-	-	0.14	U	-	-	0.15	U	-	-	0.15	U	-	-
Nitrobenzene	NC	NC	NC	NC	-	-	0.15	U	-	-	0.17	U	-	-	0.17	U	-	-
p-Chloro-m-cresol	NC	NC	NC	NC	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
Pentachlorophenol	0.8	2.4	6.7	0.8	-	-	0.14	U	-	-	0.15	U	-	-	0.15	U	-	-
Phenanthrene	100	100	100	1000	-	-	0.55		-	-	0.19		-	-	0.23		-	-
Phenol	0.33	100	100	0.33	-	-	0.17	U	-	-	0.18	U	-	-	0.18	U	-	-
Pyrene	100	100	100	1000	-	-	0.62		-	-	0.6		-	-	0.76		-	-
Total TIC Compounds	NC	NC	NC	NC	-	-	0.555	J	-	-	0	U	-	-	0	U	-	-

All analyitcal results for soil in milligrams per kilogram (mg/kg).

Q: Laboratory Qualifier

An empty Q column indicates no laboratory qualifier has been assigned.

U = Not detected at the reported detection limit for the sample.

R1 =reanalyzed

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Reporting Limit Exceedes UUSCO

Concentration exceeds UUSCO

Concentration exceeds RSCO & UUSCO

Concentration exceeds RRSCO, RSCO & UUSCO

Concentration exceeds PGWSCO & UUSCO

Concentration exceeds PGWSCO, RSCO & UUSCO

Concentration exceeds PGWSCO, RRSCO, RSCO & UUSCO

MATRIXNEWORLD
Engineering Progress

Table 1
Soil Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

SAMPLE ID:	Part 375 Unrestricted Use SCOs	Part 375 Residential SCOs	Part 375 Restricted-Residential SCOs	Part 375 Protection of Groundwater SCOs	SB-01(0-2)		COMP SB-01(0-4)		SB-02(0-2)		COMP SB-02(0-4.5)		SB-03(0-2)		COMP SB-03(0-5)		SB-04(0-2)	
LAB ID:					L2224285-01		L2224285-02 R1		L2223664-01		L2223664-02		L2223664-03		L2223664-04		L2224019-01	
COLLECTION DATE:					5/9/2022		5/9/2022		5/5/2022		5/5/2022		5/5/2022		5/5/2022		5/6/2022	
SAMPLE MATRIX:					Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore	
ANALYTE	mg/kg	mg/kg	mg/kg	mg/kg	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q
CHLORINATED HERBICIDES BY GC																		
2,4,5-T	NC	NC	NC	NC	-	-	0.172	U	-	-	0.187	U	-	-	0.18	U	-	-
2,4,5-TP (Silvex)	3.8	58	100	3.8	-	-	0.172	U	-	-	0.187	U	-	-	0.18	U	-	-
2,4-D	NC	NC	NC	NC	-	-	0.172	U	-	-	0.187	U	-	-	0.18	U	-	-
TOTAL PETROLEUM HYDROCARBONS																		
TPH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PESTICIDES																		
4,4'-DDD	0.0033	2.6	13	14	-	-	0.00164	U	-	-	0.00176	U	-	-	0.0017	U	-	-
4,4'-DDE	0.0033	1.8	8.9	17	-	-	0.00164	U	-	-	0.00085	JP	-	-	0.0017	U	-	-
4,4'-DDT	0.0033	1.7	7.9	136	-	-	0.00307	U	-	-	0.00206	JP	-	-	0.00318	U	-	-
Aldrin	0.005	0.019	0.097	0.19	-	-	0.00164	U	-	-	0.00176	U	-	-	0.0017	U	-	-
Alpha-BHC	0.02	0.097	0.48	0.02	-	-	0.000682	U	-	-	0.000736	U	-	-	0.000707	U	-	-
Beta-BHC	0.036	0.072	0.36	0.09	-	-	0.00164	U	-	-	0.00176	U	-	-	0.0017	U	-	-
Chlordane	NC	NC	NC	NC	-	-	0.0136	U	-	-	0.0147	U	-	-	0.0141	U	-	-
cis-Chlordane	0.094	0.91	4.2	2.9	-	-	0.00205	U	-	-	0.00075	J	-	-	0.00212	U	-	-
Delta-BHC	0.04	100	100	0.25	-	-	0.00164	U	-	-	0.00176	U	-	-	0.0017	U	-	-
Dieldrin	0.005	0.039	0.2	0.1	-	-	0.00102	U	-	-	0.0011	U	-	-	0.00106	U	-	-
Endosulfan I	2.4	4.8	24	102	-	-	0.00164	U	-	-	0.00176	U	-	-	0.0017	U	-	-
Endosulfan II	2.4	4.8	24	102	-	-	0.00164	U	-	-	0.00176	U	-	-	0.0017	U	-	-
Endosulfan sulfate	2.4	4.8	24	1000	-	-	0.000682	U	-	-	0.000736	U	-	-	0.000707	U	-	-
Endrin	0.014	2.2	11	0.06	-	-	0.000682	U	-	-	0.000736	U	-	-	0.000707	U	-	-
Endrin aldehyde	NC	NC	NC	NC	-	-	0.00205	U	-	-	0.00221	U	-	-	0.00212	U	-	-
Endrin ketone	NC	NC	NC	NC	-	-	0.00164	U	-	-	0.00176	U	-	-	0.0017	U	-	-
Heptachlor	0.042	0.42	2.1	0.38	-	-	0.000819	U	-	-	0.000883	U	-	-	0.000848	U	-	-
Heptachlor epoxide	NC	NC	NC	NC	-	-	0.00307	U	-	-	0.00331	U	-	-	0.00318	U	-	-
Lindane	0.1	0.28	1.3	0.1	-	-	0.000682	U	-	-	0.000736	U	-	-	0.000707	U	-	-
Methoxychlor	NC	NC	NC	NC	-	-	0.00307	U	-	-	0.00331	U	-	-	0.00318	U	-	-
Toxaphene	NC	NC	NC	NC	-	-	0.0307	U	-	-	0.0331	U	-	-	0.0318	U	-	-
trans-Chlordane	NC	NC	NC	NC	-	-	0.00205	U	-	-	0.00116	JIP	-	-	0.00212	U	-	-
PCBs																		
Aroclor 1016	0.1	1	1	3.2	-	-	0.034	U	-	-	0.0368	U	-	-	0.0357	U	-	-
Aroclor 1221	0.1	1	1	3.2	-	-	0.034	U	-	-	0.0368	U	-	-	0.0357	U	-	-
Aroclor 1232	0.1	1	1	3.2	-	-	0.034	U	-	-	0.0368	U	-	-	0.0357	U	-	-
Aroclor 1242	0.1	1	1	3.2	-	-	0.034	U	-	-	0.0368	U	-	-	0.0357	U	-	-
Aroclor 1248	0.1	1	1	3.2	-	-	0.034	U	-	-	0.0368	U	-	-	0.0357	U	-	-
Aroclor 1254	0.1	1	1	3.2	-	-	0.0348		-	-	0.0368	U	-	-	0.0357	U	-	-
Aroclor 1260	0.1	1	1	3.2	-	-	0.034	U	-	-	0.00917	J	-	-	0.0357	U	-	-
Aroclor 1262	0.1	1	1	3.2	-	-	0.034	U	-	-	0.0368	U	-	-	0.0357	U	-	-
Aroclor 1268	0.1	1	1	3.2	-	-	0.034	U	-	-	0.0368	U	-	-	0.0357	U	-	-
TOTAL METALS																		
Aluminum, Total	NC	NC	NC	NC	-	-	2110		-	-	4350		-	-	3760		-	-
Antimony, Total	NC	NC	NC	NC	-	-	4.12	U	-	-	4.35	U	-	-	0.862	J	-	-
Arsenic, Total	13	16	16	16	-	-	1.66		-	-	3.12		-	-	2.41		-	-
Barium, Total	350	350	400	820	-	-	46.4		-	-	45.1		-	-	58.3		-	-
Beryllium, Total	7.2	14	72	47	-	-	0.124	J	-	-	0.183	J	-	-	0.213	J	-	-
Cadmium, Total	2.5	2.5	4.3	7.5	-	-	0.173	J	-	-	0.348	J	-	-	0.469	J	-	-
Calcium, Total	NC	NC	NC	NC	-	-	9930		-	-	24400		-	-	11900		-	-
Chromium, Total	NC	NC	NC	NC	-	-	6.8		-	-	14.7		-	-	12.8		-	-
Cobalt, Total	NC	NC	NC	NC	-	-	2.42		-	-	4.43		-	-	4.73		-	-
Copper, Total	50	270	270	1720	-	-	12.2		-	-	16.1		-	-	**63.2**		-	-
Iron, Total	NC	NC	NC	NC	-	-	5310		-	-	8850		-	-	12400		-	-
Lead, Total	63	400	400	450	-	-	49.1		-	-	56.4		-	-	**300**		-	-
Magnesium, Total	NC	NC	NC	NC	-	-	2830		-	-	4700		-	-	1710		-	-
Manganese, Total	1600	2000	2000	2000	-	-	84.3		-	-	318		-	-	372		-	-
Mercury, Total	0.18	0.81	0.81	0.73	-	-	0.102		-	-	0.178		-	-	**0.275**		-	-
Nickel, Total	30	140	310	130	-	-	7.65		-	-	14.1		-	-	17.7		-	-
Potassium, Total	NC	NC	NC	NC	-	-	634		-	-	830		-	-	694		-	-
Selenium, Total	3.9	36	180	4	-	-	1.65	U	-	-	1.74	U	-	-	1.71	U	-	-
Silver, Total	2	36	180	8.3	-	-	0.824	U	-	-	0.635	J	-	-	0.853	U	-	-
Sodium, Total	NC	NC	NC	NC	-	-	72.9	J	-	-	217		-	-	88.7	J	-	-
Thallium, Total	NC	NC	NC	NC	-	-	1.65	U	-	-	1.74	U	-	-	1.71	U	-	-
Vanadium, Total	NC	NC	NC	NC	-	-	9.43		-	-	14.4		-	-	12.8		-	-
Zinc, Total	109	2200	10000	2480	-	-	51.4		-	-	39.2		-	-	57.7		-	-
GENERAL CHEMISTRY																		
Chromium, Hexavalent	1	22	110	19	-	-	0.222	J	-	-	0.788	J	-	-	0.89	U	-	-
Cyanide, Total	27	27	27	40	-	-	1	U	-	-	1.1	U	-	-	1.1	U	-	-
Solids, Total	NC	NC	NC	NC	96.7		94.5		91.2		88.8		95.1		87.5		90.9	

All analyitcal results for soil in milligrams per kilogram (mg/kg).

Q: Laboratory Qualifier

An empty Q column indicates no laboratory qualifier has been assigned.

U = Not detected at the reported detection limit for the sample.

R1 =reanalyzed

NC = No criteria established for this contaminant

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d = For pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

"-" = Analyte not analyzed

UUSCO = NYSDEC's December 2006 Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375).

RSCO = NYSDEC's December 2006 Residential Use Soil Cleanup Objectives (6 NYCRR 375-6)

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PGWSCO = NYSDEC's December 2006 Protection to Groundwater Soil Cleanup Objectives (6 NYCRR 375-6)

Reporting Limit Exceedes UUSCO

Concentration exceeds UUSCO

Concentration exceeds RSCO & UUSCO

Concentration exceeds RRSCO, RSCO & UUSCO

Concentration exceeds PGWSCO & UUSCO

Concentration exceeds PGWSCO, RSCO & UUSCO

Concentration exceeds PGWSCO, RRSCO, RSCO & UUSCO

Table 1
Soil Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

MATRIXNEWORLD
Engineering Progress

SAMPLE ID:	Part 375 Unrestricted Use SCOs	Part 375 Residential SCOs	Part 375 Restricted-Residential SCOs	Part 375 Protection of Groundwater SCOs	COMP SB-04(0-4)		SB-05(0-2)		COMP SB-05(0-5)		SB-05A(8-10) (Collected from BH-05A)		SB-06(0-2)		COMP SB-06(0-5)		SB-07(0-2)		SB-07(8-10)	
LAB ID:					L2224019-02		L2224019-03		L2224019-04		L2216294-01		L2224285-10		L2224285-11 R1		L2224285-04		L2224285-05	
COLLECTION DATE:					5/6/2022		5/6/2022		5/6/2022		3/30/2022		5/9/2022		5/9/2022		5/9/2022		5/9/2022	
SAMPLE MATRIX:					Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore	
ANALYTE	mg/kg	mg/kg	mg/kg	mg/kg	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q
VOLATILE ORGANICS																				
1,1,1,2-Tetrachloroethane	NC	NC	NC	NC	-	-	0.00024	U	-	-	0.62	U	0.00032	U	-	-	0.00034	U	0.00033	U
1,1,1-Trichloroethane	0.68	100	100	NC	-	-	0.00024	U	-	-	0.62	U	0.00032	U	-	-	0.00034	U	0.00033	U
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.68	-	-	0.00024	U	-	-	0.62	U	0.00032	U	-	-	0.00034	U	0.00033	U
1,1,2-Trichloroethane	NC	NC	NC	NC	-	-	0.00048	U	-	-	1.2	U	0.00063	U	-	-	0.00067	U	0.00066	U
1,1-Dichloroethane	0.27	19	26	NC	-	-	0.00048	U	-	-	***1.2***	***U***	0.00063	U	-	-	0.00067	U	0.00066	U
1,1-Dichloroethene	0.33	100	100	0.27	-	-	0.00048	U	-	-	***1.2***	***U***	0.00063	U	-	-	0.00067	U	0.00066	U
1,1-Dichloropropene	NC	NC	NC	0.33	-	-	0.00024	U	-	-	0.62	U	0.00032	U	-	-	0.00034	U	0.00033	U
1,2,3-Trichlorobenzene	NC	NC	NC	NC	-	-	0.00096	U	-	-	2.5	U	0.0013	U	-	-	0.0013	U	0.0013	U
1,2,3-Trichloropropane	NC	NC	NC	NC	-	-	0.00096	U	-	-	2.5	U	0.0013	U	-	-	0.0013	U	0.0013	U
1,2,4,5-Tetramethylbenzene	NC	NC	NC	NC	-	-	0.00096	U	-	-	2.5	U	0.0013	U	-	-	0.0013	U	0.0013	U
1,2,4-Trichlorobenzene	NC	NC	NC	NC	-	-	0.00096	U	-	-	2.5	U	0.0013	U	-	-	0.0013	U	0.0013	U
1,2,4-Trimethylbenzene	3.6	47	52	NC	-	-	0.00096	U	-	-	1	J	0.0013	U	-	-	0.0013	U	0.0013	U
1,2-Dibromo-3-chloropropane	NC	NC	NC	3.6	-	-	0.0014	U	-	-	3.7	U	0.0019	U	-	-	0.002	U	0.002	U
1,2-Dibromoethane	NC	NC	NC	NC	-	-	0.00048	U	-	-	1.2	U	0.00063	U	-	-	0.00067	U	0.00066	U
1,2-Dichlorobenzene	1.1	100	100	NC	-	-	0.00096	U	-	-	***2.5***	***U***	0.0013	U	-	-	0.0013	U	0.0013	U
1,2-Dichloroethane	0.02	2.3	3.1	1.1	-	-	0.00048	U	-	-	***1.2***	***U***	0.00063	U	-	-	0.00067	U	0.00066	U
1,2-Dichloroethene, Total	NC	NC	NC	0.02	-	-	0.00048	U	-	-	1.2	U	0.00063	U	-	-	0.00067	U	0.00066	U
1,2-Dichloropropane	NC	NC	NC	NC	-	-	0.00048	U	-	-	1.2	U	0.00063	U	-	-	0.00067	U	0.00066	U
1,3,5-Trimethylbenzene	8.4	47	52	NC	-	-	0.00096	U	-	-	0.48	J	0.0013	U	-	-	0.0013	U	0.0013	U
1,3-Dichlorobenzene	2.4	17	49	8.4	-	-	0.00096	U	-	-	***2.5***	***U***	0.0013	U	-	-	0.0013	U	0.0013	U
1,3-Dichloropropane	NC	NC	NC	2.4	-	-	0.00096	U	-	-	2.5	U	0.0013	U	-	-	0.0013	U	0.0013	U
1,3-Dichloropropene, Total	NC	NC	NC	NC	-	-	0.00024	U	-	-	0.62	U	0.00032	U	-	-	0.00034	U	0.00033	U
1,4-Dichlorobenzene	1.8	9.8	13	NC	-	-	0.00096	U	-	-	***2.5***	***U***	0.0013	U	-	-	0.0013	U	0.0013	U
1,4-Dioxane	0.1	9.8	13	1.8	-	-	0.038	U	-	-	***100***	***U***	0.05	U	-	-	0.054	U	0.053	U
2,2-Dichloropropane	NC	NC	NC	0.1	-	-	0.00096	U	-	-	2.5	U	0.0013	U	-	-	0.0013	U	0.0013	U
2-Butanone	0.12	100	100	NC	-	-	0.0048	U	-	-	***12***	***U***	0.0063	U	-	-	0.0067	U	0.0066	U
2-Hexanone	NC	NC	NC	0.12	-	-	0.0048	U	-	-	12	U	0.0063	U	-	-	0.0067	U	0.0066	U
4-Methyl-2-pentanone	NC	NC	NC	NC	-	-	0.0048	U	-	-	12	U	0.0063	U	-	-	0.0067	U	0.0066	U
Acetone	0.05	100	100	NC	-	-	0.0026	J	-	-	***12***	***U***	0.038		-	-	0.0067	U	0.0074	
Acrylonitrile	NC	NC	NC	0.05	-	-	0.0019	U	-	-	5	U	0.0025	U	-	-	0.0027	U	0.0026	U
Benzene	0.06	2.9	4.8	NC	-	-	0.00024	U	-	-	***0.62***	***U***	0.00087		-	-	0.00011	J	0.00033	U
Bromobenzene	NC	NC	NC	0.06	-	-	0.00096	U	-	-	2.5	U	0.0013	U	-	-	0.0013	U	0.0013	U
Bromochloromethane	NC	NC	NC	NC	-	-	0.00096	U	-	-	2.5	U	0.0013	U	-	-	0.0013	U	0.0013	U
Bromodichloromethane	NC	NC	NC	NC	-	-	0.00024	U	-	-	0.62	U	0.00032	U	-	-	0.00034	U	0.00033	U
Bromoform	NC	NC	NC	NC	-	-	0.0019	U	-	-	5	U	0.0025	U	-	-	0.0027	U	0.0026	U
Bromomethane	NC	NC	NC	NC	-	-	0.00096	U	-	-	2.5	U	0.0013	U	-	-	0.0013	U	0.0013	U
Carbon disulfide	NC	NC	NC	NC	-	-	0.0048	U	-	-	12	U	0.0063	U	-	-	0.0067	U	0.0066	U
Carbon tetrachloride	0.76	1.4	2.4	NC	-	-	0.00048	U	-	-	***1.2***	***U***	0.00063	U	-	-	0.00067	U	0.00066	U
Chlorobenzene	1.1	100	100	0.76	-	-	0.00024	U	-	-	0.62	U	0.00032	U	-	-	0.00034	U	0.00033	U
Chloroethane	NC	NC	NC	1.1	-	-	0.00096	U	-	-	2.5	U	0.0013	U	-	-	0.0013	U	0.0013	U
Chloroform	0.37	10	49	NC	-	-	0.00072	U	-	-	***1.9***	***U***	0.00095	U	-	-	0.001	U	0.00099	U
Chloromethane	NC	NC	NC	0.37	-	-	0.0019	U	-	-	5	U	0.0025	U	-	-	0.0027	U	0.0026	U
cis-1,2-Dichloroethene	0.25	59	100	NC	-	-	0.00048	U	-	-	***1.2***	***U***	0.00063	U	-	-	0.00067	U	0.00066	U
cis-1,3-Dichloropropene	NC	NC	NC	0.25	-	-	0.00024	U	-	-	0.62	U	0.00032	U	-	-	0.00034	U	0.00033	U
Dibromochloromethane	NC	NC	NC	NC	-	-	0.00048	U	-	-	1.2	U	0.00063	U	-	-	0.00067	U	0.00066	U
Dibromomethane	NC	NC	NC	NC	-	-	0.00096	U	-	-	2.5	U	0.0013	U	-	-	0.0013	U	0.0013	U
Dichlorodifluoromethane	NC	NC	NC	NC	-	-	0.0048	U	-	-	12	U	0.0063	U	-	-	0.0067	U	0.0066	U
Ethyl ether	NC	NC	NC	NC	-	-	0.00096	U	-	-	2.5	U	0.0013	U	-	-	0.0013	U	0.0013	U
Ethylbenzene	1	30	41	NC	-	-	0.00048	U	-	-	0.35	J	0.00063	U	-	-	0.00083		0.00066	U
Hexachlorobutadiene	NC	NC	NC	1	-	-	0.0019	U	-	-	5	U	0.0025	U	-	-	0.0027	U	0.0026	U
Isopropylbenzene	NC	NC	NC	NC	-	-	0.00048	U	-	-	1.2	U	0.00063	U	-	-	0.00067	U	0.00066	U
Methyl tert butyl ether	0.93	62	100	NC	-	-	0.00096	U	-	-	***2.5***	***U***	0.0013	U	-	-	0.0013	U	0.0013	U
Methylene chloride	0.05	51	100	0.93	-	-	0.0024	U	-	-	***6.2***	***U***	0.0032	U	-	-	0.0034	U	0.0033	U
n-Butylbenzene	12	100	100	0.05	-	-	0.00048	U	-	-	1.2	U	0.00063	U	-	-	0.00067	U	0.00066	U
n-Propylbenzene	3.9	100	100	12	-	-	0.00048	U	-	-	1.2	U	0.00063	U	-	-	0.00067	U	0.00066	U
Naphthalene	12	100	100	3.9	-	-	0.0019	U	-	-	**610**	**E**	0.0025	U	-	-	0.0027	U	0.0026	U
o-Chlorotoluene	NC	NC	NC	12	-	-	0.00096	U	-	-	2.5	U	0.0013	U	-	-	0.0013	U	0.0013	U
o-Xylene	NC	NC	NC	NC	-	-	0.00048	U	-	-	1.2	U	0.00063	U	-	-	0.0011		0.00066	U
p-Chlorotoluene	NC	NC	NC	NC	-	-	0.00096	U	-	-	2.5	U	0.0013	U	-	-	0.0013	U	0.0013	U
p-Diethylbenzene	NC	NC	NC	NC	-	-	0.00096	U	-	-	0.55	J	0.0013	U	-	-	0.0013	U	0.0013	U
p-Ethyltoluene	NC	NC	NC	NC	-	-	0.00096	U	-	-	0.58	J	0.0013	U	-	-	0.0013	U	0.0013	U
p-Isopropyltoluene	NC	NC	NC	NC	-	-	0.00048	U	-	-	1.2	U	0.00063	U	-	-	0.00067	U	0.00066	U
p/m-Xylene	NC	NC	NC	NC	-	-	0.00096	U	-	-	2.5	U	0.0013	U	-	-	0.0035		0.0013	U
sec-Butylbenzene	11	100	100	NC	-	-	0.00048	U	-	-	1.2	U	0.00063	U	-	-	0.00067	U	0.00066	U
Styrene	NC	NC	NC	11	-	-	0.00048	U	-	-	1.2	U	0.00063	U	-	-	0.00067	U	0.00066	U
tert-Butylbenzene	5.9	100	100	NC	-	-	0.00096	U	-	-	2.5	U	0.0013	U	-	-	0.0013	U	0.0013	U
Tetrachloroethene	1.3	5.5	19	5.9	-	-	0.00011	J	-	-	0.62	U	0.00032	U	-	-	0.00034	U	0.00033	U
Toluene	0.7	100	100	1.3	-	-	0.00048	U	-	-	***1.2***	***U***	0.00063	U	-	-	0.00067	U	0.00066	U
trans-1,2-Dichloroethene	0.19	100	100	0.7	-	-	0.00072	U	-	-	***1.9***	***U***	0.00095	U	-	-	0.001	U	0.00099	U
trans-1,3-Dichloropropene	NC	NC	NC	0.19	-	-	0.00048	U	-	-	1.2	U	0.00063	U	-	-	0.00067	U	0.00066	U
trans-1,4-Dichloro-2-butene	NC	NC	NC	NC	-	-	0.0024	U	-	-	6.2	U	0.0032	U	-	-	0.0034	U	0.0033	U
Trichloroethene	0.47	10	21	NC	-	-	0.00024	U	-	-	***0.62***	***U***	0.00032	U	-	-	0.00034	U	0.00033	U
Trichlorofluoromethane	NC	NC	NC	0.47	-	-	0.0019	U	-	-	5	U	0.0025	U	-	-	0.0027	U	0.0026	U
Vinyl acetate	NC	NC	NC	NC	-	-	0.0048	U	-	-	12	U	0.0063	U	-	-	0.0067	U	0.0066	U
Vinyl chloride	0.02	0.21	0.9	NC	-	-	0.00048	U	-	-	***1.2***	***U***	0.00063	U	-	-	0.00067	U	0.00066	U
Xylenes, Total	0.26	100	100	0.02	-	-	0.00048	U	-	-	***1.2***	***U***	0.00063	U	-	-	0.0046		0.00066	U
Total TIC Compounds	NC	NC	NC	NC	-	-	-	U	-	-	-	-	0	U	-	-	0	U	0	U

All analyitcal results for soil in milligrams per kilogram (mg/kg).

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Reporting Limit Exceedes UUSCO

Concentration exceeds UUSCO

Concentration exceeds RSCO & UUSCO

Concentration exceeds RRSCO, RSCO & UUSCO

Concentration exceeds PGWSCO & UUSCO

Concentration exceeds PGWSCO, RSCO & UUSCO

Concentration exceeds PGWSCO, RRSCO, RSCO & UUSCO

Table 1
Soil Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

MATRIXNEWORLD
Engineering Progress

SAMPLE ID:	Part 375 Unrestricted Use SCOs	Part 375 Residential SCOs	Part 375 Restricted-Residential SCOs	Part 375 Protection of Groundwater SCOs	COMP SB-04(0-4)		SB-05(0-2)		COMP SB-05(0-5)		SB-05A(8-10) (Collected from BH-05A)		SB-06(0-2)		COMP SB-06(0-5)		SB-07(0-2)		SB-07(8-10)	
LAB ID:					L2224019-02		L2224019-03		L2224019-04		L2216294-01		L2224285-10		L2224285-11 R1		L2224285-04		L2224285-05	
COLLECTION DATE:					5/6/2022		5/6/2022		5/6/2022		3/30/2022		5/9/2022		5/9/2022		5/9/2022		5/9/2022	
SAMPLE MATRIX:					Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore	
ANALYTE	mg/kg	mg/kg	mg/kg	mg/kg	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q
SEMI-VOLATILE ORGANICS																				
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
1,2,4-Trichlorobenzene	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
1,2-Dichlorobenzene	1.1	100	100	1.1	0.18	U	-	-	0.18	U	***3.9***	***U***	-	-	0.18	U	-	-	-	-
1,3-Dichlorobenzene	2.4	17	49	2.4	0.18	U	-	-	0.18	U	***3.9***	***U***	-	-	0.18	U	-	-	-	-
1,4-Dichlorobenzene	1.8	9.8	13	1.8	0.18	U	-	-	0.18	U	***3.9***	***U***	-	-	0.18	U	-	-	-	-
1,4-Dioxane	0.1	9.8	13	0.1	0.027	U	-	-	0.027	U	***0.59***	***U***	-	-	0.027	U	-	-	-	-
2,4,5-Trichlorophenol	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
2,4,6-Trichlorophenol	NC	NC	NC	NC	0.11	U	-	-	0.11	U	2.4	U	-	-	0.11	U	-	-	-	-
2,4-Dichlorophenol	NC	NC	NC	NC	0.16	U	-	-	0.16	U	3.5	U	-	-	0.16	U	-	-	-	-
2,4-Dimethylphenol	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
2,4-Dinitrophenol	NC	NC	NC	NC	0.87	U	-	-	0.86	U	19	U	-	-	0.86	U	-	-	-	-
2,4-Dinitrotoluene	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
2,6-Dinitrotoluene	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
2-Chloronaphthalene	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
2-Chlorophenol	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
2-Methylnaphthalene	NC	NC	NC	NC	0.031	J	-	-	0.026	J	39		-	-	0.027	J	-	-	-	-
2-Methylphenol	0.33	100	100	0.33	0.18	U	-	-	0.18	U	***3.9***	***U***	-	-	0.18	U	-	-	-	-
2-Nitroaniline	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
2-Nitrophenol	NC	NC	NC	NC	0.39	U	-	-	0.39	U	8.5	U	-	-	0.39	U	-	-	-	-
3,3'-Dichlorobenzidine	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
3-Methylphenol/4-Methylphenol	0.33	34	100	0.33	0.26	U	-	-	0.26	U	***5.7***	***U***	-	-	0.26	U	-	-	-	-
3-Nitroaniline	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
4,6-Dinitro-o-cresol	NC	NC	NC	NC	0.47	U	-	-	0.47	U	10	U	-	-	0.47	U	-	-	-	-
4-Bromophenyl phenyl ether	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
4-Chloroaniline	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
4-Nitroaniline	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
4-Nitrophenol	NC	NC	NC	NC	0.25	U	-	-	0.25	U	5.5	U	-	-	0.25	U	-	-	-	-
Acenaphthene	20	100	100	98	0.023	J	-	-	0.052	J	52		-	-	0.086	J	-	-	-	-
Acenaphthylene	100	100	100	107	0.04	J	-	-	0.051	J	1.4	J	-	-	0.079	J	-	-	-	-
Acetophenone	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
Anthracene	100	100	100	1000	0.1	J	-	-	0.17		12		-	-	0.27		-	-	-	-
Benzo(a)anthracene	1	1	1	1	0.51		-	-	0.67		13		-	-	0.81		-	-	-	-
Benzo(a)pyrene	1	1	1	22	0.46		-	-	0.65		5.9		-	-	0.82		-	-	-	-
Benzo(b)fluoranthene	1	1	1	1.7	0.56		-	-	0.74		9.1		-	-	0.96		-	-	-	-
Benzo(ghi)perylene	100	100	100	1000	0.24		-	-	0.41		1.8	J	-	-	0.5		-	-	-	-
Benzo(k)fluoranthene	0.8	1	3.9	1.7	0.19		-	-	0.23		2.4		-	-	0.26		-	-	-	-
Benzoic Acid	NC	NC	NC	NC	0.59	U	-	-	0.58	U	13	U	-	-	0.58	U	-	-	-	-
Benzyl Alcohol	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
Biphenyl	NC	NC	NC	NC	0.41	U	-	-	0.41	U	9.3		-	-	0.41	U	-	-	-	-
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	0.2	U	-	-	0.19	U	4.2	U	-	-	0.19	U	-	-	-	-
Bis(2-chloroethyl)ether	NC	NC	NC	NC	0.16	U	-	-	0.16	U	3.5	U	-	-	0.16	U	-	-	-	-
Bis(2-chloroisopropyl)ether	NC	NC	NC	NC	0.22	U	-	-	0.22	U	4.7	U	-	-	0.22	U	-	-	-	-
Bis(2-ethylhexyl)phthalate	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
Butyl benzyl phthalate	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
Carbazole	NC	NC	NC	NC	0.022	J	-	-	0.05	J	5.2		-	-	0.063	J	-	-	-	-
Chrysene	1	1	3.9	1	0.43		-	-	0.66		8.7		-	-	0.79		-	-	-	-
Di-n-butylphthalate	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
Di-n-octylphthalate	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
Dibenzo(a,h)anthracene	0.33	0.33	0.33	1000	0.049	J	-	-	0.096	J	**0.45**	**J**	-	-	0.12		-	-	-	-
Dibenzofuran	7	14	59	210	0.028	J	-	-	0.04	J	29		-	-	0.053	J	-	-	-	-
Diethyl phthalate	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
Dimethyl phthalate	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
Fluoranthene	100	100	100	1000	0.87		-	-	1		61		-	-	1.5		-	-	-	-
Fluorene	30	100	100	386	0.025	J	-	-	0.053	J	33		-	-	0.084	J	-	-	-	-
Hexachlorobenzene	0.33	0.33	1.2	3.2	0.11	U	-	-	0.11	U	***2.4***	***U***	-	-	0.11	U	-	-	-	-
Hexachlorobutadiene	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
Hexachlorocyclopentadiene	NC	NC	NC	NC	0.52	U	-	-	0.51	U	11	U	-	-	0.51	U	-	-	-	-
Hexachloroethane	NC	NC	NC	NC	0.14	U	-	-	0.14	U	3.1	U	-	-	0.14	U	-	-	-	-
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5	8.2	0.26		-	-	0.45		**2.4**	**J**	-	-	**0.56**		-	-	-	-
Isophorone	NC	NC	NC	NC	0.16	U	-	-	0.16	U	3.5	U	-	-	0.16	U	-	-	-	-
n-Nitrosodi-n-propylamine	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
Naphthalene	12	100	100	12	0.054	J	-	-	0.064	J	86		-	-	0.043	J	-	-	-	-
NDPA/DPA	NC	NC	NC	NC	0.14	U	-	-	0.14	U	3.1	U	-	-	0.14	U	-	-	-	-
Nitrobenzene	NC	NC	NC	NC	0.16	U	-	-	0.16	U	3.5	U	-	-	0.16	U	-	-	-	-
p-Chloro-m-cresol	NC	NC	NC	NC	0.18	U	-	-	0.18	U	3.9	U	-	-	0.18	U	-	-	-	-
Pentachlorophenol	0.8	2.4	6.7	0.8	0.14	U	-	-	0.14	U	***3.1***	***U***	-	-	0.14	U	-	-	-	-
Phenanthrene	100	100	100	1000	0.38		-	-	0.6		**100**		-	-	0.98		-	-	-	-
Phenol	0.33	100	100	0.33	0.18	U	-	-	0.18	U	***3.9***	***U***	-	-	0.18	U	-	-	-	-
Pyrene	100	100	100	1000	0.82		-	-	1		43		-	-	1.5		-	-	-	-
Total TIC Compounds	NC	NC	NC	NC	0.298	J	-	-	1.09	J	80	J	-	-	2	J	-	-	-	-

All analyitcal results for soil in milligrams per kilogram (mg/kg).
Q: Laboratory Qualifier
An empty Q column indicates no laboratory qualifier has been assigned.
U = Not detected at the reported detection limit for the sample.
R1 =reanalyzed
NC = No criteria established for this contaminant
E = Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
J = Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater t
I - The lower value for the two columns has been reported due to obvious interference.
P - The RPD between the results for the two columns exceeds the method-specified criteria.
d = For pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentratio
"-" = Analyte not analyzed
UUSCO = NYSDEC's December 2006 Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375).
RSCO = NYSDEC's December 2006 Residential Use Soil Cleanup Objectives (6 NYCRR 375-6)
RRSCO = NYSDEC's December 2006 Restricted Residential Use Soil Cleanup Objectives (6 NYCRR 375-6)
PGWSCO = NYSDEC's December 2006 Protection to Groundwater Soil Cleanup Objectives (6 NYCRR 375-6)
Reporting Limit Exceeds UUSCO
Concentration exceeds UUSCO
Concentration exceeds RSCO & UUSCO
Concentration exceeds RRSCO, RSCO & UUSCO
Concentration exceeds PGWSCO & UUSCO
Concentration exceeds PGWSCO, RSCO & UUSCO
Concentration exceeds PGWSCO, RRSCO, RSCO & UUSCO

Table 1
Soil Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

MATRIXNEWORLD
Engineering Progress

SAMPLE ID:	Part 375 Unrestricted Use SCOs	Part 375 Residential SCOs	Part 375 Restricted-Residential SCOs	Part 375 Protection of Groundwater SCOs	COMP SB-04(0-4)		SB-05(0-2)		COMP SB-05(0-5)		SB-05A(8-10) (Collected from BH-05A)		SB-06(0-2)		COMP SB-06(0-5)		SB-07(0-2)		SB-07(8-10)	
LAB ID:					L2224019-02		L2224019-03		L2224019-04		L2216294-01		L2224285-10		L2224285-11 R1		L2224285-04		L2224285-05	
COLLECTION DATE:					5/6/2022		5/6/2022		5/6/2022		3/30/2022		5/9/2022		5/9/2022		5/9/2022		5/9/2022	
SAMPLE MATRIX:					Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore	
ANALYTE	mg/kg	mg/kg	mg/kg	mg/kg	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q
CHLORINATED HERBICIDES BY GC																				
2,4,5-T	NC	NC	NC	NC	0.182	U	-	-	0.179	U	-	-	-	-	0.178	U	-	-	-	-
2,4,5-TP (Silvex)	3.8	58	100	3.8	0.182	U	-	-	0.179	U	-	-	-	-	0.178	U	-	-	-	-
2,4-D	NC	NC	NC	NC	0.182	U	-	-	0.179	U	-	-	-	-	0.178	U	-	-	-	-
TOTAL PETROLEUM HYDROCARBONS																				
TPH	-	-	-	-	-	-	-	-	-	-	6830		-	-	-	-	-	-	-	-
PESTICIDES																				
4,4'-DDD	0.0033	2.6	13	14	***0.017***	***U***	-	-	***0.017***	***U***	**0.00765**	**P**	-	-	0.000588	J	-	-	-	-
4,4'-DDE	0.0033	1.8	8.9	17	**0.0131**	**JP**	-	-	***0.017***	***U***	0.00199	U	-	-	0.00182		-	-	-	-
4,4'-DDT	0.0033	1.7	7.9	136	***0.0319***	***U***	-	-	***0.0318***	***U***	***0.00373***	***U***	-	-	**0.00342**	**IP**	-	-	-	-
Aldrin	0.005	0.019	0.097	0.19	***0.017***	***U***	-	-	***0.017***	***U***	0.00199	U	-	-	0.00163	U	-	-	-	-
Alpha-BHC	0.02	0.097	0.48	0.02	0.00708	U	-	-	0.00707	U	0.00083	U	-	-	0.000681	U	-	-	-	-
Beta-BHC	0.036	0.072	0.36	0.09	0.017	U	-	-	0.017	U	0.00199	U	-	-	0.00163	U	-	-	-	-
Chlordane	NC	NC	NC	NC	0.142	U	-	-	0.141	U	0.0166	U	-	-	0.0311		-	-	-	-
cis-Chlordane	0.094	0.91	4.2	2.9	0.0212	U	-	-	0.0212	U	0.00249	U	-	-	0.00279		-	-	-	-
Delta-BHC	0.04	100	100	0.25	0.017	U	-	-	0.017	U	0.00199	U	-	-	0.00163	U	-	-	-	-
Dieldrin	0.005	0.039	0.2	0.1	***0.0106***	***U***	-	-	***0.0106***	***U***	0.00124	U	-	-	0.00074	J	-	-	-	-
Endosulfan I	2.4	4.8	24	102	0.017	U	-	-	0.017	U	0.00199	U	-	-	0.00163	U	-	-	-	-
Endosulfan II	2.4	4.8	24	102	0.017	U	-	-	0.017	U	0.00199	U	-	-	0.00163	U	-	-	-	-
Endosulfan sulfate	2.4	4.8	24	1000	0.00708	U	-	-	0.00707	U	0.00083	U	-	-	0.000681	U	-	-	-	-
Endrin	0.014	2.2	11	0.06	0.00708	U	-	-	0.00707	U	0.00083	U	-	-	0.000681	U	-	-	-	-
Endrin aldehyde	NC	NC	NC	NC	0.0212	U	-	-	0.0212	U	0.00249	U	-	-	0.00204	U	-	-	-	-
Endrin ketone	NC	NC	NC	NC	0.017	U	-	-	0.017	U	0.00199	U	-	-	0.00163	U	-	-	-	-
Heptachlor	0.042	0.42	2.1	0.38	0.0085	U	-	-	0.00848	U	0.000996	U	-	-	0.000817	U	-	-	-	-
Heptachlor epoxide	NC	NC	NC	NC	0.0319	U	-	-	0.0318	U	0.00373	U	-	-	0.00306	U	-	-	-	-
Lindane	0.1	0.28	1.3	0.1	0.00708	U	-	-	0.00707	U	0.00083	U	-	-	0.000681	U	-	-	-	-
Methoxychlor	NC	NC	NC	NC	0.0319	U	-	-	0.0318	U	0.00373	U	-	-	0.00306	U	-	-	-	-
Toxaphene	NC	NC	NC	NC	0.319	U	-	-	0.318	U	0.0373	U	-	-	0.0306	U	-	-	-	-
trans-Chlordane	NC	NC	NC	NC	0.0212	U	-	-	0.0109	JP	0.00249	U	-	-	0.00353	IP	-	-	-	-
PCBs																				
Aroclor 1016	0.1	1	1	3.2	0.0524	U	-	-	0.0355	U	0.0408	U	-	-	0.0348	U	-	-	-	-
Aroclor 1221	0.1	1	1	3.2	0.0524	U	-	-	0.0355	U	0.0408	U	-	-	0.0348	U	-	-	-	-
Aroclor 1232	0.1	1	1	3.2	0.0524	U	-	-	0.0355	U	0.0408	U	-	-	0.0348	U	-	-	-	-
Aroclor 1242	0.1	1	1	3.2	0.0524	U	-	-	0.0355	U	0.0408	U	-	-	0.0348	U	-	-	-	-
Aroclor 1248	0.1	1	1	3.2	0.0524	U	-	-	0.0355	U	0.0408	U	-	-	0.0348	U	-	-	-	-
Aroclor 1254	0.1	1	1	3.2	0.0524	U	-	-	0.0355	U	0.0408	U	-	-	0.0348	U	-	-	-	-
Aroclor 1260	0.1	1	1	3.2	0.0524	U	-	-	0.00936	J	0.0408	U	-	-	0.00829	J	-	-	-	-
Aroclor 1262	0.1	1	1	3.2	0.0524	U	-	-	0.0355	U	0.0408	U	-	-	0.0348	U	-	-	-	-
Aroclor 1268	0.1	1	1	3.2	0.0524	U	-	-	0.0355	U	0.0408	U	-	-	0.0348	U	-	-	-	-
TOTAL METALS																				
Aluminum, Total	NC	NC	NC	NC	4560		-	-	3850		10100		-	-	3200		-	-	-	-
Antimony, Total	NC	NC	NC	NC	1.35	J	-	-	1.62	J	5	U	-	-	4.21	U	-	-	-	-
Arsenic, Total	13	16	16	16	2.87		-	-	2.54		5.16		-	-	3.22		-	-	-	-
Barium, Total	350	350	400	820	60.5		-	-	46.4		52.9		-	-	39.5		-	-	-	-
Beryllium, Total	7.2	14	72	47	0.403	J	-	-	0.42	J	0.3	J	-	-	0.16	J	-	-	-	-
Cadmium, Total	2.5	2.5	4.3	7.5	0.352	J	-	-	0.42	J	1	U	-	-	0.227	J	-	-	-	-
Calcium, Total	NC	NC	NC	NC	42800		-	-	11000		213000		-	-	26200		-	-	-	-
Chromium, Total	NC	NC	NC	NC	12.4		-	-	11.1		13.9		-	-	8.36		-	-	-	-
Cobalt, Total	NC	NC	NC	NC	6.21		-	-	6.1		4.73		-	-	2.78		-	-	-	-
Copper, Total	50	270	270	1720	19.8		-	-	21.6		18.2		-	-	13.8		-	-	-	-
Iron, Total	NC	NC	NC	NC	8600		-	-	8810		9060		-	-	6910		-	-	-	-
Lead, Total	63	400	400	450	36.1		-	-	56.1		11.5		-	-	53.8		-	-	-	-
Magnesium, Total	NC	NC	NC	NC	12400		-	-	2880		6060		-	-	7210		-	-	-	-
Manganese, Total	1600	2000	2000	2000	144		-	-	158		304		-	-	126		-	-	-	-
Mercury, Total	0.18	0.81	0.81	0.73	0.083		-	-	0.176		0.094	U	-	-	0.115		-	-	-	-
Nickel, Total	30	140	310	130	10.6		-	-	11.7		10.1		-	-	7.07		-	-	-	-
Potassium, Total	NC	NC	NC	NC	1930		-	-	1180		810		-	-	878		-	-	-	-
Selenium, Total	3.9	36	180	4	0.881	J	-	-	0.54	J	2	U	-	-	1.68	U	-	-	-	-
Silver, Total	2	36	180	8.3	0.369	J	-	-	0.334	J	1	U	-	-	0.842	U	-	-	-	-
Sodium, Total	NC	NC	NC	NC	346		-	-	134	J	433		-	-	403		-	-	-	-
Thallium, Total	NC	NC	NC	NC	1.68	U	-	-	1.71	U	2	U	-	-	1.68	U	-	-	-	-
Vanadium, Total	NC	NC	NC	NC	19.3		-	-	15.9		14.8		-	-	11.2		-	-	-	-
Zinc, Total	109	2200	10000	2480	38.8		-	-	58.5		**146**		-	-	41.3		-	-	-	-
GENERAL CHEMISTRY																				
Chromium, Hexavalent	1	22	110	19	0.352	J	-	-	0.881	U	***1.02***	***U***	-	-	0.866	U	-	-	-	-
Cyanide, Total	27	27	27	40	0.29	J	-	-	1	U	1.2	U	-	-	1	U	-	-	-	-
Solids, Total	NC	NC	NC	NC	91.6		90.8		81.9		78.3		91.8		92.4		93		82.1	

All analyitcal results for soil in milligrams per kilogram (mg/kg).

Q: Laboratory Qualifier

An empty Q column indicates no laboratory qualifier has been assigned.

U = Not detected at the reported detection limit for the sample.

R1 =reanalyzed

NC = No criteria established for this contaminant

E = Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J = Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater t

I - The lower value for the two columns has been reported due to obvious interference.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

d = For pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentratio

"-" = Analyte not analyzed

UUSCO = NYSDEC's December 2006 Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375).

RSCO = NYSDEC's December 2006 Residential Use Soil Cleanup Objectives (6 NYCRR 375-6)

RRSCO = NYSDEC's December 2006 Restricted Residential Use Soil Cleanup Objectives (6 NYCRR 375-6)

PGWSCO = NYSDEC's December 2006 Protection to Groundwater Soil Cleanup Objectives (6 NYCRR 375-6)

Reporting Limit Exceeds UUSCO

Concentration exceeds UUSCO

Concentration exceeds RSCO & UUSCO

Concentration exceeds RRSCO, RSCO & UUSCO

Concentration exceeds PGWSCO & UUSCO

Concentration exceeds PGWSCO, RSCO & UUSCO

Concentration exceeds PGWSCO, RRSCO, RSCO & UUSCO

Table 1
Soil Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

SAMPLE ID:	Part 375 Unrestricted Use SCOs	Part 375 Residential SCOs	Part 375 Restricted-Residential SCOs	Part 375 Protection of Groundwater SCOs	SB-08(0-2)		COMP SB-08(0-5)		SB-09(0-2)		COMP SB-09(0-5)		SB-10(0-2)		COMP SB-10(0-5)		SOIL DUP	
LAB ID:					L2224019-06		L2224019-07 R1		L2224463-01 R1		L2224463-02		L2224463-03 R1		L2224463-04		L2224463-06 R1	
COLLECTION DATE:					5/6/2022		5/6/2022		5/10/2022		5/10/2022		5/10/2022		5/10/2022		5/10/2022	
SAMPLE MATRIX:					Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore	
ANALYTE	mg/kg	mg/kg	mg/kg	mg/kg	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q
VOLATILE ORGANICS																		
1,1,1,2-Tetrachloroethane	NC	NC	NC	NC	0.00049	U	-	-	0.00067	U	-	-	0.00054	U	-	-	0.00046	U
1,1,1-Trichloroethane	0.68	100	100	NC	0.00049	U	-	-	0.00067	U	-	-	0.00054	U	-	-	0.00046	U
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.68	0.00049	U	-	-	0.00067	U	-	-	0.00054	U	-	-	0.00046	U
1,1,2-Trichloroethane	NC	NC	NC	NC	0.00098	U	-	-	0.0013	U	-	-	0.0011	U	-	-	0.00092	U
1,1-Dichloroethane	0.27	19	26	NC	0.00098	U	-	-	0.0013	U	-	-	0.0011	U	-	-	0.00092	U
1,1-Dichloroethene	0.33	100	100	0.27	0.00098	U	-	-	0.0013	U	-	-	0.0011	U	-	-	0.00092	U
1,1-Dichloropropene	NC	NC	NC	0.33	0.00049	U	-	-	0.00067	U	-	-	0.00054	U	-	-	0.00046	U
1,2,3-Trichlorobenzene	NC	NC	NC	NC	0.002	U	-	-	0.0027	U	-	-	0.0021	U	-	-	0.0018	U
1,2,3-Trichloropropane	NC	NC	NC	NC	0.002	U	-	-	0.0027	U	-	-	0.0021	U	-	-	0.0018	U
1,2,4,5-Tetramethylbenzene	NC	NC	NC	NC	0.002	U	-	-	0.0027	U	-	-	0.0021	U	-	-	0.0018	U
1,2,4-Trichlorobenzene	NC	NC	NC	NC	0.002	U	-	-	0.0027	U	-	-	0.0021	U	-	-	0.0018	U
1,2,4-Trimethylbenzene	3.6	47	52	NC	0.002	U	-	-	0.0027	U	-	-	0.0021	U	-	-	0.0018	U
1,2-Dibromo-3-chloropropane	NC	NC	NC	3.6	0.0029	U	-	-	0.004	U	-	-	0.0032	U	-	-	0.0028	U
1,2-Dibromoethane	NC	NC	NC	NC	0.00098	U	-	-	0.0013	U	-	-	0.0011	U	-	-	0.00092	U
1,2-Dichlorobenzene	1.1	100	100	NC	0.002	U	-	-	0.0027	U	-	-	0.0021	U	-	-	0.0018	U
1,2-Dichloroethane	0.02	2.3	3.1	1.1	0.00098	U	-	-	0.0013	U	-	-	0.0011	U	-	-	0.00092	U
1,2-Dichloroethene, Total	NC	NC	NC	0.02	0.00098	U	-	-	0.0013	U	-	-	0.0011	U	-	-	0.00092	U
1,2-Dichloropropane	NC	NC	NC	NC	0.00098	U	-	-	0.0013	U	-	-	0.0011	U	-	-	0.00092	U
1,3,5-Trimethylbenzene	8.4	47	52	NC	0.002	U	-	-	0.0027	U	-	-	0.0021	U	-	-	0.0018	U
1,3-Dichlorobenzene	2.4	17	49	8.4	0.002	U	-	-	0.0027	U	-	-	0.0021	U	-	-	0.0018	U
1,3-Dichloropropane	NC	NC	NC	2.4	0.002	U	-	-	0.0027	U	-	-	0.0021	U	-	-	0.0018	U
1,3-Dichloropropene, Total	NC	NC	NC	NC	0.00049	U	-	-	0.00067	U	-	-	0.00054	U	-	-	0.00046	U
1,4-Dichlorobenzene	1.8	9.8	13	NC	0.002	U	-	-	0.0027	U	-	-	0.0021	U	-	-	0.0018	U
1,4-Dioxane	0.1	9.8	13	1.8	0.078	U	-	-	0.11	U	-	-	0.086	U	-	-	0.074	U
2,2-Dichloropropane	NC	NC	NC	0.1	0.002	U	-	-	0.0027	U	-	-	0.0021	U	-	-	0.0018	U
2-Butanone	0.12	100	100	NC	0.0098	U	-	-	0.013	U	-	-	0.011	U	-	-	0.0092	U
2-Hexanone	NC	NC	NC	0.12	0.0098	U	-	-	0.013	U	-	-	0.011	U	-	-	0.0092	U
4-Methyl-2-pentanone	NC	NC	NC	NC	0.0098	U	-	-	0.013	U	-	-	0.011	U	-	-	0.0092	U
Acetone	0.05	100	100	NC	0.0098	U	-	-	0.013	U	-	-	0.011	U	-	-	0.0092	U
Acrylonitrile	NC	NC	NC	0.05	0.0039	U	-	-	0.0053	U	-	-	0.0043	U	-	-	0.0037	U
Benzene	0.06	2.9	4.8	NC	0.00049	U	-	-	0.00067	U	-	-	0.00054	U	-	-	0.00046	U
Bromobenzene	NC	NC	NC	0.06	0.002	U	-	-	0.0027	U	-	-	0.0021	U	-	-	0.0018	U
Bromochloromethane	NC	NC	NC	NC	0.002	U	-	-	0.0027	U	-	-	0.0021	U	-	-	0.0018	U
Bromodichloromethane	NC	NC	NC	NC	0.00049	U	-	-	0.00067	U	-	-	0.00054	U	-	-	0.00046	U
Bromoform	NC	NC	NC	NC	0.0039	U	-	-	0.0053	U	-	-	0.0043	U	-	-	0.0037	U
Bromomethane	NC	NC	NC	NC	0.002	U	-	-	0.0027	U	-	-	0.0021	U	-	-	0.0018	U
Carbon disulfide	NC	NC	NC	NC	0.0098	U	-	-	0.013	U	-	-	0.011	U	-	-	0.0092	U
Carbon tetrachloride	0.76	1.4	2.4	NC	0.00098	U	-	-	0.0013	U	-	-	0.0011	U	-	-	0.00092	U
Chlorobenzene	1.1	100	100	0.76	0.00049	U	-	-	0.00067	U	-	-	0.00054	U	-	-	0.00046	U
Chloroethane	NC	NC	NC	1.1	0.002	U	-	-	0.0027	U	-	-	0.0021	U	-	-	0.0018	U
Chloroform	0.37	10	49	NC	0.0015	U	-	-	0.002	U	-	-	0.0016	U	-	-	0.0014	U
Chloromethane	NC	NC	NC	0.37	0.0039	U	-	-	0.0053	U	-	-	0.0043	U	-	-	0.0037	U
cis-1,2-Dichloroethene	0.25	59	100	NC	0.00098	U	-	-	0.0013	U	-	-	0.0011	U	-	-	0.00092	U
cis-1,3-Dichloropropene	NC	NC	NC	0.25	0.00049	U	-	-	0.00067	U	-	-	0.00054	U	-	-	0.00046	U
Dibromochloromethane	NC	NC	NC	NC	0.00098	U	-	-	0.0013	U	-	-	0.0011	U	-	-	0.00092	U
Dibromomethane	NC	NC	NC	NC	0.002	U	-	-	0.0027	U	-	-	0.0021	U	-	-	0.0018	U
Dichlorodifluoromethane	NC	NC	NC	NC	0.0098	U	-	-	0.013	U	-	-	0.011	U	-	-	0.0092	U
Ethyl ether	NC	NC	NC	NC	0.002	U	-	-	0.0027	U	-	-	0.0021	U	-	-	0.0018	U
Ethylbenzene	1	30	41	NC	0.00098	U	-	-	0.0013	U	-	-	0.0011	U	-	-	0.00092	U
Hexachlorobutadiene	NC	NC	NC	1	0.0039	U	-	-	0.0053	U	-	-	0.0043	U	-	-	0.0037	U
Isopropylbenzene	NC	NC	NC	NC	0.00098	U	-	-	0.0013	U	-	-	0.0011	U	-	-	0.00092	U
Methyl tert butyl ether	0.93	62	100	NC	0.002	U	-	-	0.0027	U	-	-	0.0021	U	-	-	0.0018	U
Methylene chloride	0.05	51	100	0.93	0.0049	U	-	-	0.0067	U	-	-	0.0054	U	-	-	0.0046	U
n-Butylbenzene	12	100	100	0.05	0.00098	U	-	-	0.0013	U	-	-	0.0011	U	-	-	0.00092	U
n-Propylbenzene	3.9	100	100	12	0.00098	U	-	-	0.0013	U	-	-	0.0011	U	-	-	0.00092	U
Naphthalene	12	100	100	3.9	0.0027	J	-	-	0.0053	U	-	-	0.0043	U	-	-	0.0037	U
o-Chlorotoluene	NC	NC	NC	12	0.002	U	-	-	0.0027	U	-	-	0.0021	U	-	-	0.0018	U
o-Xylene	NC	NC	NC	NC	0.00098	U	-	-	0.0013	U	-	-	0.0011	U	-	-	0.00092	U
p-Chlorotoluene	NC	NC	NC	NC	0.002	U	-	-	0.0027	U	-	-	0.0021	U	-	-	0.0018	U
p-Diethylbenzene	NC	NC	NC	NC	0.002	U	-	-	0.0027	U	-	-	0.0021	U	-	-	0.0018	U
p-Ethyltoluene	NC	NC	NC	NC	0.002	U	-	-	0.0027	U	-	-	0.0021	U	-	-	0.0018	U
p-Isopropyltoluene	NC	NC	NC	NC	0.00098	U	-	-	0.0016	U	-	-	0.0011	U	-	-	0.00092	U
p/m-Xylene	NC	NC	NC	NC	0.002	U	-	-	0.0027	U	-	-	0.0021	U	-	-	0.0018	U
sec-Butylbenzene	11	100	100	NC	0.00098	U	-	-	0.0013	U	-	-	0.0011	U	-	-	0.00092	U
Styrene	NC	NC	NC	11	0.00098	U	-	-	0.0013	U	-	-	0.0011	U	-	-	0.00092	U
tert-Butylbenzene	5.9	100	100	NC	0.002	U	-	-	0.0027	U	-	-	0.0021	U	-	-	0.0018	U
Tetrachloroethene	1.3	5.5	19	5.9	0.00049	U	-	-	0.0004	J	-	-	0.00054	U	-	-	0.00046	U
Toluene	0.7	100	100	1.3	0.00098	U	-	-	0.0013	U	-	-	0.0011	U	-	-	0.00092	U
trans-1,2-Dichloroethene	0.19	100	100	0.7	0.0015	U	-	-	0.002	U	-	-	0.0016	U	-	-	0.0014	U
trans-1,3-Dichloropropene	NC	NC	NC	0.19	0.00098	U	-	-	0.0013	U	-	-	0.0011	U	-	-	0.00092	U
trans-1,4-Dichloro-2-butene	NC	NC	NC	NC	0.0049	U	-	-	0.0067	U	-	-	0.0054	U	-	-	0.0046	U
Trichloroethene	0.47	10	21	NC	0.00049	U	-	-	0.00067	U	-	-	0.00054	U	-	-	0.00046	U
Trichlorofluoromethane	NC	NC	NC	0.47	0.0039	U	-	-	0.0053	U	-	-	0.0043	U	-	-	0.0037	U
Vinyl acetate	NC	NC	NC	NC	0.0098	U	-	-	0.013	U	-	-	0.011	U	-	-	0.0092	U
Vinyl chloride	0.02	0.21	0.9	NC	0.00098	U	-	-	0.0013	U	-	-	0.0011	U	-	-	0.00092	U
Xylenes, Total	0.26	100	100	0.02	0.00098	U	-	-	0.0013	U	-	-	0.0011	U	-	-	0.00092	U
Total TIC Compounds	NC	NC	NC	NC	0.0067	J	-	-	0.0184	J	-	-	0.00976	J	-	-	0.00675	J

All analyitcal results for soil in milligrams per kilogram (mg/kg).

Q: Laboratory Qualifier

An empty Q column indicates no laboratory qualifier has been assigned.

U = Not detected at the reported detection limit for the sample.

R1 =reanalyzed

NC = No criteria established for this contaminant

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PGWSCO = NYSDEC's December 2006 Protection to Groundwater Soil Cleanup Objectives (6 NYCRR 375-6)

Reporting Limit Exceedes UUSCO

Concentration exceeds UUSCO

Concentration exceeds RSCO & UUSCO

Concentration exceeds RRSCO, RSCO & UUSCO

Concentration exceeds PGWSCO & UUSCO

Concentration exceeds PGWSCO, RSCO & UUSCO

Concentration exceeds PGWSCO, RRSCO, RSCO & UUSCO

Table 1
Soil Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

MATRIXNEWORLD
Engineering Progress

SAMPLE ID:	Part 375 Unrestricted Use SCOs	Part 375 Residential SCOs	Part 375 Restricted-Residential SCOs	Part 375 Protection of Groundwater SCOs	SB-08(0-2)		COMP SB-08(0-5)		SB-09(0-2)		COMP SB-09(0-5)		SB-10(0-2)		COMP SB-10(0-5)		SOIL DUP	
LAB ID:					L2224019-06		L2224019-07 R1		L2224463-01 R1		L2224463-02		L2224463-03 R1		L2224463-04		L2224463-06 R1	
COLLECTION DATE:					5/6/2022		5/6/2022		5/10/2022		5/10/2022		5/10/2022		5/10/2022		5/10/2022	
SAMPLE MATRIX:					Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore	
ANALYTE	mg/kg	mg/kg	mg/kg	mg/kg	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q
SEMI-VOLATILE ORGANICS																		
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
1,2,4-Trichlorobenzene	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
1,2-Dichlorobenzene	1.1	100	100	1.1	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
1,3-Dichlorobenzene	2.4	17	49	2.4	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
1,4-Dichlorobenzene	1.8	9.8	13	1.8	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
1,4-Dioxane	0.1	9.8	13	0.1	-	-	0.029	U	-	-	0.034	U	-	-	0.029	U	0.029	U
2,4,5-Trichlorophenol	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
2,4,6-Trichlorophenol	NC	NC	NC	NC	-	-	0.12	U	-	-	0.14	U	-	-	0.12	U	0.12	U
2,4-Dichlorophenol	NC	NC	NC	NC	-	-	0.17	U	-	-	0.21	U	-	-	0.18	U	0.17	U
2,4-Dimethylphenol	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
2,4-Dinitrophenol	NC	NC	NC	NC	-	-	0.92	U	-	-	1.1	U	-	-	0.94	U	0.92	U
2,4-Dinitrotoluene	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
2,6-Dinitrotoluene	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
2-Chloronaphthalene	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
2-Chlorophenol	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
2-Methylnaphthalene	NC	NC	NC	NC	-	-	1.7		-	-	0.28	U	-	-	0.24	U	0.23	U
2-Methylphenol	0.33	100	100	0.33	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
2-Nitroaniline	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
2-Nitrophenol	NC	NC	NC	NC	-	-	0.42	U	-	-	0.5	U	-	-	0.42	U	0.42	U
3,3'-Dichlorobenzidine	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
3-Methylphenol/4-Methylphenol	0.33	34	100	0.33	-	-	0.074	J	-	-	***0.33***	***U***	-	-	0.28	U	0.28	U
3-Nitroaniline	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
4,6-Dinitro-o-cresol	NC	NC	NC	NC	-	-	0.5	U	-	-	0.6	U	-	-	0.51	U	0.5	U
4-Bromophenyl phenyl ether	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
4-Chloroaniline	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
4-Nitroaniline	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
4-Nitrophenol	NC	NC	NC	NC	-	-	0.27	U	-	-	0.32	U	-	-	0.27	U	0.27	U
Acenaphthene	20	100	100	98	-	-	6.6		-	-	0.034	J	-	-	0.16	U	0.038	J
Acenaphthylene	100	100	100	107	-	-	0.13	J	-	-	0.18	U	-	-	0.16	U	0.06	J
Acetophenone	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
Anthracene	100	100	100	1000	-	-	18		-	-	0.11	J	-	-	0.062	J	0.13	
Benzo(a)anthracene	1	1	1	1	-	-	**26**		-	-	0.35		-	-	0.24		0.44	
Benzo(a)pyrene	1	1	1	22	-	-	**27**		-	-	0.39		-	-	0.27		0.46	
Benzo(b)fluoranthene	1	1	1	1.7	-	-	**26**		-	-	0.46		-	-	0.32		0.6	
Benzo(ghi)perylene	100	100	100	1000	-	-	7.4		-	-	0.26		-	-	0.18		0.31	
Benzo(k)fluoranthene	0.8	1	3.9	1.7	-	-	**2.8**		-	-	0.16		-	-	0.12		0.17	
Benzoic Acid	NC	NC	NC	NC	-	-	0.62	U	-	-	0.74	U	-	-	0.64	U	0.62	U
Benzyl Alcohol	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
Biphenyl	NC	NC	NC	NC	-	-	0.69		-	-	0.52	U	-	-	0.45	U	0.44	U
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	-	-	0.21	U	-	-	0.25	U	-	-	0.21	U	0.21	U
Bis(2-chloroethyl)ether	NC	NC	NC	NC	-	-	0.17	U	-	-	0.21	U	-	-	0.18	U	0.17	U
Bis(2-chloroisopropyl)ether	NC	NC	NC	NC	-	-	0.23	U	-	-	0.28	U	-	-	0.24	U	0.23	U
Bis(2-ethylhexyl)phthalate	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	5.2	
Butyl benzyl phthalate	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
Carbazole	NC	NC	NC	NC	-	-	3.9		-	-	0.038	J	-	-	0.024	J	0.048	J
Chrysene	1	1	3.9	1	-	-	**24**		-	-	0.34		-	-	0.24		0.43	
Di-n-butylphthalate	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
Di-n-octylphthalate	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
Dibenzo(a,h)anthracene	0.33	0.33	0.33	1000	-	-	**2.2**		-	-	0.064	J	-	-	0.045	J	0.078	J
Dibenzofuran	7	14	59	210	-	-	5.1		-	-	0.026	J	-	-	0.2	U	0.028	J
Diethyl phthalate	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
Dimethyl phthalate	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
Fluoranthene	100	100	100	1000	-	-	51		-	-	0.64		-	-	0.42		0.82	
Fluorene	30	100	100	386	-	-	7.2		-	-	0.042	J	-	-	0.02	J	0.043	J
Hexachlorobenzene	0.33	0.33	1.2	3.2	-	-	0.12	U	-	-	0.14	U	-	-	0.12	U	0.12	U
Hexachlorobutadiene	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
Hexachlorocyclopentadiene	NC	NC	NC	NC	-	-	0.55	U	-	-	0.66	U	-	-	0.56	U	0.55	U
Hexachloroethane	NC	NC	NC	NC	-	-	0.15	U	-	-	0.18	U	-	-	0.16	U	0.15	U
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5	8.2	-	-	**18**		-	-	0.3		-	-	0.21		0.36	
Isophorone	NC	NC	NC	NC	-	-	0.17	U	-	-	0.21	U	-	-	0.18	U	0.17	U
n-Nitrosodi-n-propylamine	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
Naphthalene	12	100	100	12	-	-	3.8		-	-	0.048	J	-	-	0.2	U	0.034	J
NDPA/DPA	NC	NC	NC	NC	-	-	0.15	U	-	-	0.18	U	-	-	0.16	U	0.15	U
Nitrobenzene	NC	NC	NC	NC	-	-	0.17	U	-	-	0.21	U	-	-	0.18	U	0.17	U
p-Chloro-m-cresol	NC	NC	NC	NC	-	-	0.19	U	-	-	0.23	U	-	-	0.2	U	0.19	U
Pentachlorophenol	0.8	2.4	6.7	0.8	-	-	0.15	U	-	-	0.18	U	-	-	0.16	U	0.15	U
Phenanthrene	100	100	100	1000	-	-	33	E	-	-	0.36		-	-	0.2		0.48	
Phenol	0.33	100	100	0.33	-	-	0.04	J	-	-	0.23	U	-	-	0.2	U	0.19	U
Pyrene	100	100	100	1000	-	-	30	E	-	-	0.57		-	-	0.38		0.73	
Total TIC Compounds	NC	NC	NC	NC	-	-	14.5	J	-	-	1.83	J	-	-	0.49	J	1.58	J

All analytical results for soil in milligrams per kilogram (mg/kg).
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Reporting Limit Exceedes UUSCO

Concentration exceeds UUSCO
Concentration exceeds RSCO & UUSCO
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Table 1
Soil Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

SAMPLE ID:	Part 375 Unrestricted Use SCOs	Part 375 Residential SCOs	Part 375 Restricted-Residential SCOs	Part 375 Protection of Groundwater SCOs	SB-08(0-2)		COMP SB-08(0-5)		SB-09(0-2)		COMP SB-09(0-5)		SB-10(0-2)		COMP SB-10(0-5)		SOIL DUP	
LAB ID:					L2224019-06		L2224019-07 R1		L2224463-01 R1		L2224463-02		L2224463-03 R1		L2224463-04		L2224463-06 R1	
COLLECTION DATE:					5/6/2022		5/6/2022		5/10/2022		5/10/2022		5/10/2022		5/10/2022		5/10/2022	
SAMPLE MATRIX:					Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore	
ANALYTE	mg/kg	mg/kg	mg/kg	mg/kg	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q
CHLORINATED HERBICIDES BY GC																		
2,4,5-T	NC	NC	NC	NC	-	-	0.188	U	-	-	0.229	U	-	-	0.194	U	0.192	U
2,4,5-TP (Silvex)	3.8	58	100	3.8	-	-	0.188	U	-	-	0.229	U	-	-	0.194	U	0.192	U
2,4-D	NC	NC	NC	NC	-	-	0.188	U	-	-	0.229	U	-	-	0.194	U	0.192	U
TOTAL PETROLEUM HYDROCARBONS																		
TPH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PESTICIDES																		
4,4'-DDD	0.0033	2.6	13	14	-	-	***0.0179***	***U***	-	-	0.00216	U	-	-	0.00119	J	0.00198	
4,4'-DDE	0.0033	1.8	8.9	17	-	-	***0.0179***	***U***	-	-	**0.00431**	**P**	-	-	**0.00435**		**0.00401**	
4,4'-DDT	0.0033	1.7	7.9	136	-	-	***0.0336***	***U***	-	-	**0.00494**	**IP**	-	-	**0.00372**	**IP**	**0.00422**	**IP**
Aldrin	0.005	0.019	0.097	0.19	-	-	***0.0179***	***U***	-	-	0.00216	U	-	-	0.00183	U	0.00179	U
Alpha-BHC	0.02	0.097	0.48	0.02	-	-	0.00747	U	-	-	0.000901	U	-	-	0.000763	U	0.000747	U
Beta-BHC	0.036	0.072	0.36	0.09	-	-	0.0179	U	-	-	0.00216	U	-	-	0.00183	U	0.00179	U
Chlordane	NC	NC	NC	NC	-	-	0.149	U	-	-	0.018	U	-	-	0.0409		0.041	
cis-Chlordane	0.094	0.91	4.2	2.9	-	-	0.0224	U	-	-	0.0094	P	-	-	0.00602	IP	0.00578	IP
Delta-BHC	0.04	100	100	0.25	-	-	0.0179	U	-	-	0.00216	U	-	-	0.00183	U	0.00179	U
Dieldrin	0.005	0.039	0.2	0.1	-	-	***0.0112***	***U***	-	-	0.003		-	-	0.00114	U	0.00112	U
Endosulfan I	2.4	4.8	24	102	-	-	0.0179	U	-	-	0.00216	U	-	-	0.00183	U	0.00179	U
Endosulfan II	2.4	4.8	24	102	-	-	0.0179	U	-	-	0.00216	U	-	-	0.00183	U	0.00179	U
Endosulfan sulfate	2.4	4.8	24	1000	-	-	0.00747	U	-	-	0.000901	U	-	-	0.000763	U	0.000747	U
Endrin	0.014	2.2	11	0.06	-	-	0.00747	U	-	-	0.000901	U	-	-	0.000763	U	0.000747	U
Endrin aldehyde	NC	NC	NC	NC	-	-	0.0224	U	-	-	0.0027	U	-	-	0.00229	U	0.00224	U
Endrin ketone	NC	NC	NC	NC	-	-	0.0179	U	-	-	0.00216	U	-	-	0.00183	U	0.00179	U
Heptachlor	0.042	0.42	2.1	0.38	-	-	0.00896	U	-	-	0.00116	IP	-	-	0.000915	U	0.000896	U
Heptachlor epoxide	NC	NC	NC	NC	-	-	0.0336	U	-	-	0.00405	U	-	-	0.00343	U	0.00336	U
Lindane	0.1	0.28	1.3	0.1	-	-	0.00747	U	-	-	0.000901	U	-	-	0.000763	U	0.000747	U
Methoxychlor	NC	NC	NC	NC	-	-	0.0336	U	-	-	0.00405	U	-	-	0.00343	U	0.00336	U
Toxaphene	NC	NC	NC	NC	-	-	0.336	U	-	-	0.0405	U	-	-	0.0343	U	0.0336	U
trans-Chlordane	NC	NC	NC	NC	-	-	0.0224	U	-	-	0.00594		-	-	0.00557		0.0064	
PCBs																		
Aroclor 1016	0.1	1	1	3.2	-	-	0.0373	U	-	-	0.0449	U	-	-	0.0383	U	0.0378	U
Aroclor 1221	0.1	1	1	3.2	-	-	0.0373	U	-	-	0.0449	U	-	-	0.0383	U	0.0378	U
Aroclor 1232	0.1	1	1	3.2	-	-	0.0373	U	-	-	0.0449	U	-	-	0.0383	U	0.0378	U
Aroclor 1242	0.1	1	1	3.2	-	-	0.0373	U	-	-	0.0449	U	-	-	0.0383	U	0.0378	U
Aroclor 1248	0.1	1	1	3.2	-	-	0.0373	U	-	-	0.0449	U	-	-	0.0383	U	0.0378	U
Aroclor 1254	0.1	1	1	3.2	-	-	0.0373	U	-	-	0.0449	U	-	-	0.0383	U	0.0378	U
Aroclor 1260	0.1	1	1	3.2	-	-	0.0373	U	-	-	0.018	J	-	-	0.0185	J	0.0223	J
Aroclor 1262	0.1	1	1	3.2	-	-	0.0373	U	-	-	0.0449	U	-	-	0.0383	U	0.0378	U
Aroclor 1268	0.1	1	1	3.2	-	-	0.0373	U	-	-	0.0054	J	-	-	0.0383	U	0.0378	U
TOTAL METALS																		
Aluminum, Total	NC	NC	NC	NC	-	-	3980		-	-	2510		-	-	3190		2930	
Antimony, Total	NC	NC	NC	NC	-	-	2.34	J	-	-	5.56	U	-	-	4.53	U	4.64	U
Arsenic, Total	13	16	16	16	-	-	5.5		-	-	6.08		-	-	7.16		4.41	
Barium, Total	350	350	400	820	-	-	56.1		-	-	36.6		-	-	67.7		57.4	
Beryllium, Total	7.2	14	72	47	-	-	0.416	J	-	-	0.133	J	-	-	0.199	J	0.176	J
Cadmium, Total	2.5	2.5	4.3	7.5	-	-	0.513	J	-	-	0.278	J	-	-	0.353	J	0.306	J
Calcium, Total	NC	NC	NC	NC	-	-	11200		-	-	15200		-	-	7560		5740	
Chromium, Total	NC	NC	NC	NC	-	-	14.6		-	-	22		-	-	13		12.6	
Cobalt, Total	NC	NC	NC	NC	-	-	6.17		-	-	2.37		-	-	4.01		3.88	
Copper, Total	50	270	270	1720	-	-	20.5		-	-	21.2		-	-	26.3		21.2	
Iron, Total	NC	NC	NC	NC	-	-	8610		-	-	5770		-	-	9920		8760	
Lead, Total	63	400	400	450	-	-	44.1		-	-	37.7		-	-	**128**		59	
Magnesium, Total	NC	NC	NC	NC	-	-	2220		-	-	2290		-	-	1900		1760	
Manganese, Total	1600	2000	2000	2000	-	-	142		-	-	129		-	-	160		148	
Mercury, Total	0.18	0.81	0.81	0.73	-	-	**0.209**		-	-	0.101		-	-	0.114		0.131	
Nickel, Total	30	140	310	130	-	-	12.2		-	-	11		-	-	8.64		7.73	
Potassium, Total	NC	NC	NC	NC	-	-	1080		-	-	666		-	-	1270		1120	
Selenium, Total	3.9	36	180	4	-	-	0.796	J	-	-	2.22	U	-	-	0.371	J	1.86	U
Silver, Total	2	36	180	8.3	-	-	0.327	J	-	-	1.11	U	-	-	0.906	U	0.928	U
Sodium, Total	NC	NC	NC	NC	-	-	459		-	-	381		-	-	621		567	
Thallium, Total	NC	NC	NC	NC	-	-	1.77	U	-	-	2.22	U	-	-	1.81	U	1.86	U
Vanadium, Total	NC	NC	NC	NC	-	-	18		-	-	8.96		-	-	12.9		12.3	
Zinc, Total	109	2200	10000	2480	-	-	72.8		-	-	96.4		-	-	**118**		82.9	
GENERAL CHEMISTRY																		
Chromium, Hexavalent	1	22	110	19	-	-	0.244	J	-		***1.12***	***U***	-		0.958	U	0.938	U
Cyanide, Total	27	27	27	40	-	-	1.1	U	-		1.3	U	-		1.1	U	1.1	U
Solids, Total	NC	NC	NC	NC	86.2		-		84.3		71.2		89		83.5		85.3	

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Reporting Limit Exceedes UUSCO

Concentration exceeds UUSCO

Concentration exceeds RSCO & UUSCO

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Concentration exceeds PGWSCO, RSCO & UUSCO

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Soil Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

SAMPLE ID:	Part 375 Unrestricted Use SCOs	Part 375 Residential SCOs	Part 375 Restricted-Residential SCOs	Part 375 Protection of Groundwater SCOs	SB11 (1-3)		SB12 (1-3)		SB13 (1-3)		SB13 (1-3) DUP		SB13 (5.5-7.5)	
LAB ID:					L2168050-01		L2168372-04		L2168050-02		L2168050-03		L2168050-04	
COLLECTION DATE:					12/10/2021		12/13/2021		12/10/2021		12/10/2021		12/10/2021	
SAMPLE MATRIX:					Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore	
ANALYTE	mg/kg	mg/kg	mg/kg	mg/kg	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q
VOLATILE ORGANICS														
1,1,1,2-Tetrachloroethane	NC	NC	NC	NC	0.00058	U	0.00056	U	0.00051	U	0.00057	U	0.00059	U
1,1,1-Trichloroethane	0.68	100	100	NC	0.00058	U	0.00056	U	0.00051	U	0.00057	U	0.00059	U
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.68	0.00058	U	0.00056	U	0.00051	U	0.00057	U	0.00059	U
1,1,2-Trichloroethane	NC	NC	NC	NC	0.0012	U	0.0011	U	0.001	U	0.0011	U	0.0012	U
1,1-Dichloroethane	0.27	19	26	NC	0.0012	U	0.0011	U	0.001	U	0.0011	U	0.0012	U
1,1-Dichloroethene	0.33	100	100	0.27	0.0012	U	0.0011	U	0.001	U	0.0011	U	0.0012	U
1,1-Dichloropropene	NC	NC	NC	0.33	0.00058	U	0.00056	U	0.00051	U	0.00057	U	0.00059	U
1,2,3-Trichlorobenzene	NC	NC	NC	NC	0.0023	U	0.0022	U	0.002	U	0.0023	U	0.0024	U
1,2,3-Trichloropropane	NC	NC	NC	NC	0.0023	U	0.0022	U	0.002	U	0.0023	U	0.0024	U
1,2,4,5-Tetramethylbenzene	NC	NC	NC	NC	0.0023	U	0.0022	U	0.002	U	0.0023	U	0.0024	U
1,2,4-Trichlorobenzene	NC	NC	NC	NC	0.0023	U	0.0022	U	0.002	U	0.0023	U	0.0024	U
1,2,4-Trimethylbenzene	3.6	47	52	NC	0.0023	U	0.0022	U	0.002	U	0.0023	U	0.0024	U
1,2-Dibromo-3-chloropropane	NC	NC	NC	3.6	0.0035	U	0.0034	U	0.003	U	0.0034	U	0.0035	U
1,2-Dibromoethane	NC	NC	NC	NC	0.0012	U	0.0011	U	0.001	U	0.0011	U	0.0012	U
1,2-Dichlorobenzene	1.1	100	100	NC	0.0023	U	0.0022	U	0.002	U	0.0023	U	0.0024	U
1,2-Dichloroethane	0.02	2.3	3.1	1.1	0.0012	U	0.0011	U	0.001	U	0.0011	U	0.0012	U
1,2-Dichloroethene, Total	NC	NC	NC	0.02	0.0012	U	0.0011	U	0.001	U	0.0011	U	0.0012	U
1,2-Dichloropropane	NC	NC	NC	NC	0.0012	U	0.0011	U	0.001	U	0.0011	U	0.0012	U
1,3,5-Trimethylbenzene	8.4	47	52	NC	0.0023	U	0.0022	U	0.002	U	0.0023	U	0.0024	U
1,3-Dichlorobenzene	2.4	17	49	8.4	0.0023	U	0.0022	U	0.002	U	0.0023	U	0.0024	U
1,3-Dichloropropane	NC	NC	NC	2.4	0.0023	U	0.0022	U	0.002	U	0.0023	U	0.0024	U
1,3-Dichloropropene, Total	NC	NC	NC	NC	0.00058	U	0.00056	U	0.00051	U	0.00057	U	0.00059	U
1,4-Dichlorobenzene	1.8	9.8	13	NC	0.0023	U	0.0022	U	0.002	U	0.0023	U	0.0024	U
1,4-Dioxane	0.1	9.8	13	1.8	0.093	U	0.09	U	0.081	U	0.091	U	0.094	U
2,2-Dichloropropane	NC	NC	NC	0.1	0.0023	U	0.0022	U	0.002	U	0.0023	U	0.0024	U
2-Butanone	0.12	100	100	NC	0.012	U	0.011	U	0.01	U	0.011	U	0.012	U
2-Hexanone	NC	NC	NC	0.12	0.012	U	0.011	U	0.01	U	0.011	U	0.012	U
4-Methyl-2-pentanone	NC	NC	NC	NC	0.012	U	0.011	U	0.01	U	0.011	U	0.012	U
Acetone	0.05	100	100	NC	0.012	U	0.011	U	0.01	U	0.011	U	0.012	U
Acrylonitrile	NC	NC	NC	0.05	0.0046	U	0.0045	U	0.004	U	0.0045	U	0.0047	U
Benzene	0.06	2.9	4.8	NC	0.00058	U	0.00056	U	0.00051	U	0.00057	U	0.00059	U
Bromobenzene	NC	NC	NC	0.06	0.0023	U	0.0022	U	0.002	U	0.0023	U	0.0024	U
Bromochloromethane	NC	NC	NC	NC	0.0023	U	0.0022	U	0.002	U	0.0023	U	0.0024	U
Bromodichloromethane	NC	NC	NC	NC	0.00058	U	0.00056	U	0.00051	U	0.00057	U	0.00059	U
Bromoform	NC	NC	NC	NC	0.0046	U	0.0045	U	0.004	U	0.0045	U	0.0047	U
Bromomethane	NC	NC	NC	NC	0.0023	U	0.0022	U	0.002	U	0.0023	U	0.0024	U
Carbon disulfide	NC	NC	NC	NC	0.012	U	0.011	U	0.01	U	0.011	U	0.012	U
Carbon tetrachloride	0.76	1.4	2.4	NC	0.0012	U	0.0011	U	0.001	U	0.0011	U	0.0012	U
Chlorobenzene	1.1	100	100	0.76	0.00058	U	0.00056	U	0.00051	U	0.00057	U	0.00059	U
Chloroethane	NC	NC	NC	1.1	0.0023	U	0.0022	U	0.002	U	0.0023	U	0.0024	U
Chloroform	0.37	10	49	NC	0.00016	J	0.0017	U	0.0015	U	0.0017	U	0.00016	U
Chloromethane	NC	NC	NC	0.37	0.0046	U	0.0045	U	0.004	U	0.0045	U	0.0047	U
cis-1,2-Dichloroethene	0.25	59	100	NC	0.0012	U	0.0011	U	0.001	U	0.0011	U	0.0012	U
cis-1,3-Dichloropropene	NC	NC	NC	0.25	0.00058	U	0.00056	U	0.00051	U	0.00057	U	0.00059	U
Dibromochloromethane	NC	NC	NC	NC	0.0012	U	0.0011	U	0.001	U	0.0011	U	0.0012	U
Dibromomethane	NC	NC	NC	NC	0.0023	U	0.0022	U	0.002	U	0.0023	U	0.0024	U
Dichlorodifluoromethane	NC	NC	NC	NC	0.012	U	0.011	U	0.01	U	0.011	U	0.012	U
Ethyl ether	NC	NC	NC	NC	0.0023	U	0.0022	U	0.002	U	0.0023	U	0.0024	U
Ethylbenzene	1	30	41	NC	0.0012	U	0.0011	U	0.001	U	0.0011	U	0.0012	U
Hexachlorobutadiene	NC	NC	NC	1	0.0046	U	0.0045	U	0.004	U	0.0045	U	0.0047	U
Isopropylbenzene	NC	NC	NC	NC	0.0012	U	0.0011	U	0.001	U	0.0011	U	0.0012	U
Methyl tert butyl ether	0.93	62	100	NC	0.0023	U	0.0022	U	0.002	U	0.0023	U	0.0024	U
Methylene chloride	0.05	51	100	0.93	0.0058	U	0.0056	U	0.0051	U	0.0057	U	0.0059	U
n-Butylbenzene	12	100	100	0.05	0.0012	U	0.0011	U	0.001	U	0.0011	U	0.0012	U
n-Propylbenzene	3.9	100	100	12	0.0012	U	0.0011	U	0.001	U	0.0011	U	0.0012	U
Naphthalene	12	100	100	3.9	0.0046	U	0.0045	U	0.004	U	0.0045	U	0.0047	U
o-Chlorotoluene	NC	NC	NC	12	0.0023	U	0.0022	U	0.002	U	0.0023	U	0.0024	U
o-Xylene	NC	NC	NC	NC	0.0012	U	0.0011	U	0.001	U	0.0011	U	0.0012	U
p-Chlorotoluene	NC	NC	NC	NC	0.0023	U	0.0022	U	0.002	U	0.0023	U	0.0024	U
p-Diethylbenzene	NC	NC	NC	NC	0.0023	U	0.0022	U	0.002	U	0.0023	U	0.0024	U
p-Ethyltoluene	NC	NC	NC	NC	0.0023	U	0.0022	U	0.002	U	0.0023	U	0.0024	U
p-Isopropyltoluene	NC	NC	NC	NC	0.0012	U	0.0011	U	0.001	U	0.0011	U	0.0012	U
p/m-Xylene	NC	NC	NC	NC	0.0023	U	0.0022	U	0.002	U	0.0023	U	0.0024	U
sec-Butylbenzene	11	100	100	NC	0.0012	U	0.0011	U	0.001	U	0.0011	U	0.0012	U
Styrene	NC	NC	NC	11	0.0012	U	0.0011	U	0.001	U	0.0011	U	0.0012	U
tert-Butylbenzene	5.9	100	100	NC	0.0023	U	0.0022	U	0.002	U	0.0023	U	0.0024	U
Tetrachloroethene	1.3	5.5	19	5.9	0.00058	U	0.00056	U	0.00051	U	0.00057	U	0.00059	U
Toluene	0.7	100	100	1.3	0.0012	U	0.0011	U	0.001	U	0.0011	U	0.0012	U
trans-1,2-Dichloroethene	0.19	100	100	0.7	0.0017	U	0.0017	U	0.0015	U	0.0017	U	0.0018	U
trans-1,3-Dichloropropene	NC	NC	NC	0.19	0.0012	U	0.0011	U	0.001	U	0.0011	U	0.0012	U
trans-1,4-Dichloro-2-butene	NC	NC	NC	NC	0.0058	U	0.0056	U	0.0051	U	0.0057	U	0.0059	U
Trichloroethene	0.47	10	21	NC	0.00058	U	0.00056	U	0.00051	U	0.00057	U	0.00059	U
Trichlorofluoromethane	NC	NC	NC	0.47	0.0046	U	0.0045	U	0.004	U	0.0045	U	0.0047	U
Vinyl acetate	NC	NC	NC	NC	0.012	U	0.011	U	0.01	U	0.011	U	0.012	U
Vinyl chloride	0.02	0.21	0.9	NC	0.0012	U	0.0011	U	0.001	U	0.0011	U	0.0012	U
Xylenes, Total	0.26	100	100	0.02	0.0012	U	0.0011	U	0.001	U	0.0011	U	0.0012	U
Total TIC Compounds	NC	NC	NC	NC	-	-	-	-	-	-	-	-	-	-

All analyitcal results for soil in milligrams per kilogram (mg/kg).
Q: Laboratory Qualifier
An empty Q column indicates no laboratory qualifier has been assigned.
U = Not detected at the reported detection limit for the sample.
R1 =reanalyzed
NC = No criteria established for this contaminant
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I - The lower value for the two columns has been reported due to obvious interference.
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Reporting Limit Exceedes UUSCO

Concentration exceeds UUSCO
Concentration exceeds RSCO & UUSCO
Concentration exceeds RRSCO, RSCO & UUSCO
Concentration exceeds PGWSCO & UUSCO
Concentration exceeds PGWSCO, RSCO & UUSCO
Concentration exceeds PGWSCO, RRSCO, RSCO & UUSCO

Table 1
Soil Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

SAMPLE ID:	Part 375 Unrestricted Use SCOs	Part 375 Residential SCOs	Part 375 Restricted-Residential SCOs	Part 375 Protection of Groundwater SCOs	SB11 (1-3)		SB12 (1-3)		SB13 (1-3)		SB13 (1-3) DUP		SB13 (5.5-7.5)	
LAB ID:					L2168050-01		L2168372-04		L2168050-02		L2168050-03		L2168050-04	
COLLECTION DATE:					12/10/2021		12/13/2021		12/10/2021		12/10/2021		12/10/2021	
SAMPLE MATRIX:					Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore	
ANALYTE	mg/kg	mg/kg	mg/kg	mg/kg	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q
SEMI-VOLATILE ORGANICS														
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
1,2,4-Trichlorobenzene	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
1,2-Dichlorobenzene	1.1	100	100	1.1	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
1,3-Dichlorobenzene	2.4	17	49	2.4	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
1,4-Dichlorobenzene	1.8	9.8	13	1.8	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
1,4-Dioxane	0.1	9.8	13	0.1	0.025	U	0.026	U	0.026	U	0.026	U	0.026	U
2,4,5-Trichlorophenol	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
2,4,6-Trichlorophenol	NC	NC	NC	NC	0.099	U	0.1	U	0.1	U	0.1	U	0.1	U
2,4-Dichlorophenol	NC	NC	NC	NC	0.15	U	0.16	U	0.15	U	0.15	U	0.16	U
2,4-Dimethylphenol	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
2,4-Dinitrophenol	NC	NC	NC	NC	0.8	U	0.83	U	0.83	U	0.82	U	0.83	U
2,4-Dinitrotoluene	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
2,6-Dinitrotoluene	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
2-Chloronaphthalene	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
2-Chlorophenol	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
2-Methylnaphthalene	NC	NC	NC	NC	0.2	U	0.21	U	0.21	U	0.2	U	0.21	U
2-Methylphenol	0.33	100	100	0.33	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
2-Nitroaniline	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
2-Nitrophenol	NC	NC	NC	NC	0.36	U	0.38	U	0.37	U	0.37	U	0.37	U
3,3'-Dichlorobenzidine	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
3-Methylphenol/4-Methylphenol	0.33	34	100	0.33	0.24	U	0.25	U	0.25	U	0.24	U	0.25	U
3-Nitroaniline	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
4,6-Dinitro-o-cresol	NC	NC	NC	NC	0.43	U	0.45	U	0.45	U	0.44	U	0.45	U
4-Bromophenyl phenyl ether	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
4-Chloroaniline	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
4-Nitroaniline	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
4-Nitrophenol	NC	NC	NC	NC	0.23	U	0.24	U	0.24	U	0.24	U	0.24	U
Acenaphthene	20	100	100	98	0.13	U	0.14	U	0.14	U	0.14	U	0.14	U
Acenaphthylene	100	100	100	107	0.13	U	0.14	U	0.14	U	0.14	U	0.14	U
Acetophenone	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
Anthracene	100	100	100	1000	0.099	U	0.1	U	0.1	U	0.1	U	0.1	U
Benzo(a)anthracene	1	1	1	1	0.099	U	0.04	J	0.1	U	0.1	U	0.064	J
Benzo(a)pyrene	1	1	1	22	0.13	U	0.14	U	0.14	U	0.14	U	0.065	J
Benzo(b)fluoranthene	1	1	1	1.7	0.099	U	0.053	J	0.1	U	0.1	U	0.098	J
Benzo(ghi)perylene	100	100	100	1000	0.13	U	0.027	J	0.14	U	0.14	U	0.04	J
Benzo(k)fluoranthene	0.8	1	3.9	1.7	0.099	U	0.1	U	0.1	U	0.1	U	0.033	J
Benzoic Acid	NC	NC	NC	NC	0.54	U	0.56	U	0.56	U	0.55	U	0.56	U
Benzyl Alcohol	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
Biphenyl	NC	NC	NC	NC	0.38	U	0.4	U	0.39	U	0.39	U	0.39	U
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	0.18	U	0.19	U	0.18	U	0.18	U	0.19	U
Bis(2-chloroethyl)ether	NC	NC	NC	NC	0.15	U	0.16	U	0.15	U	0.15	U	0.16	U
Bis(2-chloroisopropyl)ether	NC	NC	NC	NC	0.2	U	0.21	U	0.21	U	0.2	U	0.21	U
Bis(2-ethylhexyl)phthalate	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
Butyl benzyl phthalate	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
Carbazole	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.02	J
Chrysene	1	1	3.9	1	0.099	U	0.04	J	0.1	U	0.1	U	0.075	J
Di-n-butylphthalate	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.18		0.17	U
Di-n-octylphthalate	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
Dibenzo(a,h)anthracene	0.33	0.33	0.33	1000	0.099	U	0.1	U	0.1	U	0.1	U	0.1	U
Dibenzofuran	7	14	59	210	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
Diethyl phthalate	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
Dimethyl phthalate	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
Fluoranthene	100	100	100	1000	0.024	J	0.064	J	0.1	U	0.1	U	0.18	
Fluorene	30	100	100	386	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
Hexachlorobenzene	0.33	0.33	1.2	3.2	0.099	U	0.1	U	0.1	U	0.1	U	0.1	U
Hexachlorobutadiene	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
Hexachlorocyclopentadiene	NC	NC	NC	NC	0.47	U	0.5	U	0.49	U	0.49	U	0.49	U
Hexachloroethane	NC	NC	NC	NC	0.13	U	0.14	U	0.14	U	0.14	U	0.14	U
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5	8.2	0.13	U	0.028	J	0.14	U	0.14	U	0.05	J
Isophorone	NC	NC	NC	NC	0.15	U	0.16	U	0.15	U	0.15	U	0.16	U
n-Nitrosodi-n-propylamine	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
Naphthalene	12	100	100	12	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
NDPA/DPA	NC	NC	NC	NC	0.13	U	0.14	U	0.14	U	0.14	U	0.14	U
Nitrobenzene	NC	NC	NC	NC	0.15	U	0.16	U	0.15	U	0.15	U	0.16	U
p-Chloro-m-cresol	NC	NC	NC	NC	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
Pentachlorophenol	0.8	2.4	6.7	0.8	0.13	U	0.14	U	0.14	U	0.14	U	0.14	U
Phenanthrene	100	100	100	1000	0.099	U	0.034	J	0.1	U	0.1	U	0.14	
Phenol	0.33	100	100	0.33	0.16	U	0.17	U	0.17	U	0.17	U	0.17	U
Pyrene	100	100	100	1000	0.023	J	0.061	J	0.1	U	0.1	U	0.15	
Total TIC Compounds	NC	NC	NC	NC	-	-	-	-	-	-	-	-	-	-

All analyitcal results for soil in milligrams per kilogram (mg/kg).
Q: Laboratory Qualifier
An empty Q column indicates no laboratory qualifier has been assigned.
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Reporting Limit Exceeds UUSCO

Concentration exceeds UUSCO
Concentration exceeds RSCO & UUSCO
Concentration exceeds RRSCO, RSCO & UUSCO
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New York, New York
20-1152

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COLLECTION DATE:					12/10/2021		12/13/2021		12/10/2021		12/10/2021		12/10/2021	
SAMPLE MATRIX:					Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore	
ANALYTE	mg/kg	mg/kg	mg/kg	mg/kg	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q
CHLORINATED HERBICIDES BY GC														
2,4,5-T	NC	NC	NC	NC	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	3.8	58	100	3.8	-	-	-	-	-	-	-	-	-	-
2,4-D	NC	NC	NC	NC	-	-	-	-	-	-	-	-	-	-
TOTAL PETROLEUM HYDROCARBONS														
TPH	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PESTICIDES														
4,4'-DDD	0.0033	2.6	13	14	0.00158	U	0.00164	U	0.00158	U	0.00164	U	0.0017	U
4,4'-DDE	0.0033	1.8	8.9	17	0.00158	U	0.00164	U	0.0029		0.000951	J	0.0017	U
4,4'-DDT	0.0033	1.7	7.9	136	0.00295	U	0.00308	U	0.00244	J	0.00307	U	0.00318	U
Aldrin	0.005	0.019	0.097	0.19	0.00158	U	0.00164	U	0.00158	U	0.00164	U	0.0017	U
Alpha-BHC	0.02	0.097	0.48	0.02	0.000657	U	0.000686	U	0.000657	U	0.000682	U	0.000707	U
Beta-BHC	0.036	0.072	0.36	0.09	0.00158	U	0.00164	U	0.00158	U	0.00164	U	0.0017	U
Chlordane	NC	NC	NC	NC	0.0131	U	0.0137	U	0.0131	U	0.0136	U	0.0141	U
cis-Chlordane	0.094	0.91	4.2	2.9	0.00197	U	0.00206	U	0.00197	U	0.00205	U	0.00212	U
Delta-BHC	0.04	100	100	0.25	0.00158	U	0.00164	U	0.00158	U	0.00164	U	0.0017	U
Dieldrin	0.005	0.039	0.2	0.1	0.000985	U	0.00103	U	0.000986	U	0.00102	U	0.00106	U
Endosulfan I	2.4	4.8	24	102	0.00158	U	0.00164	U	0.00158	U	0.00164	U	0.0017	U
Endosulfan II	2.4	4.8	24	102	0.00158	U	0.00164	U	0.00158	U	0.00164	U	0.0017	U
Endosulfan sulfate	2.4	4.8	24	1000	0.000657	U	0.000686	U	0.000657	U	0.000682	U	0.000707	U
Endrin	0.014	2.2	11	0.06	0.000657	U	0.000686	U	0.000657	U	0.000682	U	0.000707	U
Endrin aldehyde	NC	NC	NC	NC	0.00197	U	0.00206	U	0.00197	U	0.00205	U	0.00212	U
Endrin ketone	NC	NC	NC	NC	0.00158	U	0.00164	U	0.00158	U	0.00164	U	0.0017	U
Heptachlor	0.042	0.42	2.1	0.38	0.000788	U	0.000823	U	0.000789	U	0.000818	U	0.000848	U
Heptachlor epoxide	NC	NC	NC	NC	0.00295	U	0.00308	U	0.00296	U	0.00307	U	0.00318	U
Lindane	0.1	0.28	1.3	0.1	0.000657	U	0.000686	U	0.000657	U	0.000682	U	0.000707	U
Methoxychlor	NC	NC	NC	NC	0.00295	U	0.00308	U	0.00296	U	0.00307	U	0.00318	U
Toxaphene	NC	NC	NC	NC	0.0295	U	0.0308	U	0.0296	U	0.0307	U	0.0318	U
trans-Chlordane	NC	NC	NC	NC	0.00197	U	0.00206	U	0.00197	U	0.00205	U	0.00212	U
PCBs														
Aroclor 1016	0.1	1	1	3.2	0.0322	U	0.0329	U	0.0342	U	0.0339	U	0.0353	U
Aroclor 1221	0.1	1	1	3.2	0.0322	U	0.0329	U	0.0342	U	0.0339	U	0.0353	U
Aroclor 1232	0.1	1	1	3.2	0.0322	U	0.0329	U	0.0342	U	0.0339	U	0.0353	U
Aroclor 1242	0.1	1	1	3.2	0.0322	U	0.0329	U	0.0342	U	0.0339	U	0.0353	U
Aroclor 1248	0.1	1	1	3.2	0.0322	U	0.0329	U	0.0342	U	0.0339	U	0.0353	U
Aroclor 1254	0.1	1	1	3.2	0.0322	U	0.0329	U	0.0342	U	0.0339	U	0.0353	U
Aroclor 1260	0.1	1	1	3.2	0.0322	U	0.0329	U	0.0342	U	0.0339	U	0.0353	U
Aroclor 1262	0.1	1	1	3.2	0.0322	U	0.0329	U	0.0342	U	0.0339	U	0.0353	U
Aroclor 1268	0.1	1	1	3.2	0.0322	U	0.0329	U	0.0342	U	0.0339	U	0.0353	U
TOTAL METALS														
Aluminum, Total	NC	NC	NC	NC	983		1730		1500		676		1030	
Antimony, Total	NC	NC	NC	NC	4.03	U	4.03	U	4.04	U	4.07	U	4.25	U
Arsenic, Total	13	16	16	16	1.52		1.82		1.63		0.529	J	1.84	
Barium, Total	350	350	400	820	3.19		11.1		19.5		4.13		8.4	
Beryllium, Total	7.2	14	72	47	0.065	J	0.081	J	0.057	J	0.407	U	0.06	J
Cadmium, Total	2.5	2.5	4.3	7.5	0.807	U	0.805	U	0.807	U	0.814	U	0.85	U
Calcium, Total	NC	NC	NC	NC	300		2070		4530		600		3610	
Chromium, Total	NC	NC	NC	NC	3.23		5.75		4.17		1.6		3.72	
Cobalt, Total	NC	NC	NC	NC	1.58	J	1.99		1.94		0.773	J	1.47	J
Copper, Total	50	270	270	1720	2.36		6.29		6.22		4.25		3.16	
Iron, Total	NC	NC	NC	NC	2810		3850		3330		1610		2940	
Lead, Total	63	400	400	450	5.32		12.8		5.39		2.25	J	4.96	
Magnesium, Total	NC	NC	NC	NC	618		1140		2980		404		793	
Manganese, Total	1600	2000	2000	2000	59.7		68.6		392		27.8		75.8	
Mercury, Total	0.18	0.81	0.81	0.73	0.077	U	0.136		0.073	U	0.076	U	0.071	U
Nickel, Total	30	140	310	130	3.85		5.07		3.67		1.31	J	3.88	
Potassium, Total	NC	NC	NC	NC	234		324		293		149	J	240	
Selenium, Total	3.9	36	180	4	1.61	U	1.61	U	1.61	U	1.63	U	1.7	U
Silver, Total	2	36	180	8.3	0.807	U	0.805	U	0.807	U	0.814	U	0.85	U
Sodium, Total	NC	NC	NC	NC	75.1	J	133	J	24.9	J	13.1	J	75	J
Thallium, Total	NC	NC	NC	NC	1.61	U	1.61	U	1.61	U	1.63	U	1.7	U
Vanadium, Total	NC	NC	NC	NC	3.51		4.9		5.72		2.34		3.3	
Zinc, Total	109	2200	10000	2480	9.95		21.8		14.2		5.68		12.6	
GENERAL CHEMISTRY														
Chromium, Hexavalent	1	22	110	19	0.816	U	0.838	U	0.833	U	0.836	U	0.853	U
Cyanide, Total	27	27	27	40	1	U	1	U	0.98	U	0.99	U	0.99	U
Solids, Total	NC	NC	NC	NC	98		95.5		96		95.7		93.8	

All analyitcal results for soil in milligrams per kilogram (mg/kg).

Q: Laboratory Qualifier

An empty Q column indicates no laboratory qualifier has been assigned.

U = Not detected at the reported detection limit for the sample.

R1 =reanalyzed

NC = No criteria established for this contaminant

E = Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J = Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater t

I - The lower value for the two columns has been reported due to obvious interference.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

d = For pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentratio

"-" = Analyte not analyzed

UUSCO = NYSDEC's December 2006 Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375).

RSCO = NYSDEC's December 2006 Residential Use Soil Cleanup Objectives (6 NYCRR 375-6)

RRSCO = NYSDEC's December 2006 Restricted Residential Use Soil Cleanup Objectives (6 NYCRR 375-6)

PGWSCO = NYSDEC's December 2006 Protection to Groundwater Soil Cleanup Objectives (6 NYCRR 375-6)

Reporting Limit Exceedes UUSCO

Concentration exceeds UUSCO

Concentration exceeds RSCO & UUSCO

Concentration exceeds RRSCO, RSCO & UUSCO

Concentration exceeds PGWSCO & UUSCO

Concentration exceeds PGWSCO, RSCO & UUSCO

Concentration exceeds PGWSCO, RRSCO, RSCO & UUSCO

Table 1
Soil Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

SAMPLE ID:	Part 375 Unrestricted Use SCOs	Part 375 Residential SCOs	Part 375 Restricted-Residential SCOs	Part 375 Protection of Groundwater SCOs	SB14 (2-4)		SB15 (1-3)		SB-16 (1.5-4.5)		SB16 (6.5-8.5)		SB17 (1-3.5)		SB18 (1-4)		SB18 (11-13)	
LAB ID:					L2168050-05		L2168372-03		L2168372-01		L2168372-02		L2167681-04		L2167681-02		L2167681-03	
COLLECTION DATE:					12/10/2021		12/13/2021		12/13/2021		12/13/2021		12/9/2021		12/9/2021		12/9/2021	
SAMPLE MATRIX:					Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore	
ANALYTE	mg/kg	mg/kg	mg/kg	mg/kg	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q
VOLATILE ORGANICS																		
1,1,1,2-Tetrachloroethane	NC	NC	NC	NC	0.00062	U	0.00054	U	0.00052	U	0.00047	U	0.00062	U	0.00056	U	0.00056	U
1,1,1-Trichloroethane	0.68	100	100	NC	0.00062	U	0.00054	U	0.00052	U	0.00047	U	0.00062	U	0.00056	U	0.00056	U
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.68	0.00062	U	0.00054	U	0.00052	U	0.00047	U	0.00062	U	0.00056	U	0.00056	U
1,1,2-Trichloroethane	NC	NC	NC	NC	0.0012	U	0.0011	U	0.001	U	0.00094	U	0.0012	U	0.0011	U	0.0011	U
1,1-Dichloroethane	0.27	19	26	NC	0.0012	U	0.0011	U	0.001	U	0.00094	U	0.0012	U	0.0011	U	0.0011	U
1,1-Dichloroethene	0.33	100	100	0.27	0.0012	U	0.0011	U	0.001	U	0.00094	U	0.0012	U	0.0011	U	0.0011	U
1,1-Dichloropropene	NC	NC	NC	0.33	0.00062	U	0.00054	U	0.00052	U	0.00047	U	0.00062	U	0.00056	U	0.00056	U
1,2,3-Trichlorobenzene	NC	NC	NC	NC	0.0025	U	0.0022	U	0.0021	U	0.0019	U	0.0025	U	0.0023	U	0.0022	U
1,2,3-Trichloropropane	NC	NC	NC	NC	0.0025	U	0.0022	U	0.0021	U	0.0019	U	0.0025	U	0.0023	U	0.0022	U
1,2,4,5-Tetramethylbenzene	NC	NC	NC	NC	0.0025	U	0.0022	U	0.0021	U	0.0019	U	0.0025	U	0.0023	U	0.0022	U
1,2,4-Trichlorobenzene	NC	NC	NC	NC	0.0025	U	0.0022	U	0.0021	U	0.0019	U	0.0025	U	0.0023	U	0.0022	U
1,2,4-Trimethylbenzene	3.6	47	52	NC	0.0025	U	0.0022	U	0.0021	U	0.0019	U	0.0025	U	0.0023	U	0.0022	U
1,2-Dibromo-3-chloropropane	NC	NC	NC	3.6	0.0037	U	0.0032	U	0.0031	U	0.0028	U	0.0037	U	0.0034	U	0.0034	U
1,2-Dibromoethane	NC	NC	NC	NC	0.0012	U	0.0011	U	0.001	U	0.00094	U	0.0012	U	0.0011	U	0.0011	U
1,2-Dichlorobenzene	1.1	100	100	NC	0.0025	U	0.0022	U	0.0021	U	0.0019	U	0.0025	U	0.0023	U	0.0022	U
1,2-Dichloroethane	0.02	2.3	3.1	1.1	0.0012	U	0.0011	U	0.001	U	0.00094	U	0.0012	U	0.0011	U	0.0011	U
1,2-Dichloroethene, Total	NC	NC	NC	0.02	0.0012	U	0.0011	U	0.001	U	0.00094	U	0.0012	U	0.0011	U	0.0011	U
1,2-Dichloropropane	NC	NC	NC	NC	0.0012	U	*	U	0.001	U	0.00094	U	0.0012	U	0.0011	U	0.0011	U
1,3,5-Trimethylbenzene	8.4	47	52	NC	0.0025	U	0.0022	U	0.0021	U	0.0019	U	0.0025	U	0.0023	U	0.0022	U
1,3-Dichlorobenzene	2.4	17	49	8.4	0.0025	U	0.0022	U	0.0021	U	0.0019	U	0.0025	U	0.0023	U	0.0022	U
1,3-Dichloropropane	NC	NC	NC	2.4	0.0025	U	0.0022	U	0.0021	U	0.0019	U	0.0025	U	0.0023	U	0.0022	U
1,3-Dichloropropene, Total	NC	NC	NC	NC	0.00062	U	0.00054	U	0.00052	U	0.00047	U	0.00062	U	0.00056	U	0.00056	U
1,4-Dichlorobenzene	1.8	9.8	13	NC	0.0025	U	0.0022	U	0.0021	U	0.0019	U	0.0025	U	0.0023	U	0.0022	U
1,4-Dioxane	0.1	9.8	13	1.8	0.099	U	0.086	U	0.084	U	0.075	U	0.098	U	0.09	U	0.09	U
2,2-Dichloropropane	NC	NC	NC	0.1	0.0025	U	0.0022	U	0.0021	U	0.0019	U	0.0025	U	0.0023	U	0.0022	U
2-Butanone	0.12	100	100	NC	0.012	U	0.011	U	0.01	U	0.0094	U	0.012	U	0.011	U	0.011	U
2-Hexanone	NC	NC	NC	0.12	0.012	U	0.011	U	0.01	U	0.0094	U	0.012	U	0.011	U	0.011	U
4-Methyl-2-pentanone	NC	NC	NC	NC	0.012	U	0.011	U	0.01	U	0.0094	U	0.012	U	0.011	U	0.011	U
Acetone	0.05	100	100	NC	0.012	U	0.011	U	0.01	U	0.0094	U	0.012	U	0.011	U	0.011	U
Acrylonitrile	NC	NC	NC	0.05	0.0049	U	0.0043	U	0.0042	U	0.0037	U	0.0049	U	0.0045	U	0.0045	U
Benzene	0.06	2.9	4.8	NC	0.00062	U	0.00054	U	0.00021	J	0.00047	U	0.00062	U	0.00056	U	0.00056	U
Bromobenzene	NC	NC	NC	0.06	0.0025	U	0.0022	U	0.0021	U	0.0019	U	0.0025	U	0.0023	U	0.0022	U
Bromochloromethane	NC	NC	NC	NC	0.0025	U	0.0022	U	0.0021	U	0.0019	U	0.0025	U	0.0023	U	0.0022	U
Bromodichloromethane	NC	NC	NC	NC	0.00062	U	0.00054	U	0.00052	U	0.00047	U	0.00062	U	0.00056	U	0.00056	U
Bromoform	NC	NC	NC	NC	0.0049	U	0.0043	U	0.0042	U	0.0037	U	0.0049	U	0.0045	U	0.0045	U
Bromomethane	NC	NC	NC	NC	0.0025	U	0.0022	U	0.0021	U	0.0019	U	0.0025	U	0.0023	U	0.0022	U
Carbon disulfide	NC	NC	NC	NC	0.012	U	0.011	U	0.01	U	0.0094	U	0.012	U	0.011	U	0.011	U
Carbon tetrachloride	0.76	1.4	2.4	NC	0.0012	U	0.0011	U	0.001	U	0.00094	U	0.0012	U	0.0011	U	0.0011	U
Chlorobenzene	1.1	100	100	0.76	0.00062	U	0.00054	U	0.00052	U	0.00047	U	0.00062	U	0.00056	U	0.00056	U
Chloroethane	NC	NC	NC	1.1	0.0025	U	0.0022	U	0.0021	U	0.0019	U	0.0025	U	0.0023	U	0.0022	U
Chloroform	0.37	10	49	NC	0.0018	U	0.0016	U	0.0016	U	0.0014	U	0.0018	U	0.0017	U	0.0017	U
Chloromethane	NC	NC	NC	0.37	0.0049	U	0.0043	U	0.0042	U	0.0037	U	0.0049	U	0.0045	U	0.0045	U
cis-1,2-Dichloroethene	0.25	59	100	NC	0.0012	U	0.0011	U	0.001	U	0.00094	U	0.0012	U	0.0011	U	0.0011	U
cis-1,3-Dichloropropene	NC	NC	NC	0.25	0.00062	U	0.00054	U	0.00052	U	0.00047	U	0.00062	U	0.00056	U	0.00056	U
Dibromochloromethane	NC	NC	NC	NC	0.0012	U	0.0011	U	0.001	U	0.00094	U	0.0012	U	0.0011	U	0.0011	U
Dibromomethane	NC	NC	NC	NC	0.0025	U	0.0022	U	0.0021	U	0.0019	U	0.0025	U	0.0023	U	0.0022	U
Dichlorodifluoromethane	NC	NC	NC	NC	0.012	U	0.011	U	0.01	U	0.0094	U	0.012	U	0.011	U	0.011	U
Ethyl ether	NC	NC	NC	NC	0.0025	U	0.0022	U	0.0021	U	0.0019	U	0.0025	U	0.0023	U	0.0022	U
Ethylbenzene	1	30	41	NC	0.0012	U	0.0011	U	0.001	U	0.00094	U	0.0012	U	0.0011	U	0.0011	U
Hexachlorobutadiene	NC	NC	NC	1	0.0049	U	0.0043	U	0.0042	U	0.0037	U	0.0049	U	0.0045	U	0.0045	U
Isopropylbenzene	NC	NC	NC	NC	0.0012	U	0.0011	U	0.001	U	0.00094	U	0.0012	U	0.0011	U	0.0011	U
Methyl tert butyl ether	0.93	62	100	NC	0.0025	U	0.0022	U	0.0021	U	0.0019	U	0.0025	U	0.0023	U	0.0022	U
Methylene chloride	0.05	51	100	0.93	0.0062	U	0.0054	U	0.0052	U	0.0047	U	0.0062	U	0.0056	U	0.0056	U
n-Butylbenzene	12	100	100	0.05	0.0012	U	0.0011	U	0.001	U	0.00094	U	0.0012	U	0.0011	U	0.0011	U
n-Propylbenzene	3.9	100	100	12	0.0012	U	0.0011	U	0.001	U	0.00094	U	0.0012	U	0.0011	U	0.0011	U
Naphthalene	12	100	100	3.9	0.0049	U	0.0043	U	0.0042	U	0.0037	U	0.0049	U	0.0045	U	0.0045	U
o-Chlorotoluene	NC	NC	NC	12	0.0025	U	0.0022	U	0.0021	U	0.0019	U	0.0025	U	0.0023	U	0.0022	U
o-Xylene	NC	NC	NC	NC	0.0012	U	0.0011	U	0.001	U	0.00094	U	0.0012	U	0.0011	U	0.0011	U
p-Chlorotoluene	NC	NC	NC	NC	0.0025	U	0.0022	U	0.0021	U	0.0019	U	0.0025	U	0.0023	U	0.0022	U
p-Diethylbenzene	NC	NC	NC	NC	0.0025	U	0.0022	U	0.0021	U	0.0019	U	0.0025	U	0.0023	U	0.0022	U
p-Ethyltoluene	NC	NC	NC	NC	0.0025	U	0.0022	U	0.0021	U	0.0019	U	0.0025	U	0.0023	U	0.0022	U
p-Isopropyltoluene	NC	NC	NC	NC	0.0012	U	0.0011	U	0.001	U	0.00094	U	0.0012	U	0.0011	U	0.0011	U
p/m-Xylene	NC	NC	NC	NC	0.0025	U	0.0022	U	0.0021	U	0.0019	U	0.0025	U	0.0023	U	0.0022	U
sec-Butylbenzene	11	100	100	NC	0.0012	U	0.0011	U	0.001	U	0.00094	U	0.0012	U	0.0011	U	0.0011	U
Styrene	NC	NC	NC	11	0.0012	U	0.0011	U	0.00023	J	0.00094	U	0.0012	U	0.0011	U	0.0011	U
tert-Butylbenzene	5.9	100	100	NC	0.0025	U	0.0022	U	0.0021	U	0.0019	U	0.0025	U	0.0023	U	0.0022	U
Tetrachloroethene	1.3	5.5	19	5.9	0.00062	U	0.00054	U	0.00052	U	0.00047	U	0.00062	U	0.00056	U	0.00056	U
Toluene	0.7	100	100	1.3	0.0012	U	0.0011	U	0.001	U	0.00094	U	0.0012	U	0.0011	U	0.0011	U
trans-1,2-Dichloroethene	0.19	100	100	0.7	0.0018	U	0.0016	U	0.0016	U	0.0014	U	0.0018	U	0.0017	U	0.0017	U
trans-1,3-Dichloropropene	NC	NC	NC	0.19	0.0012	U	0.0011	U	0.001	U	0.00094	U	0.0012	U	0.0011	U	0.0011	U
trans-1,4-Dichloro-2-butene	NC	NC	NC	NC	0.0062	U	0.0054	U	0.0052	U	0.0047	U	0.0062	U	0.0056	U	0.0056	U
Trichloroethene	0.47	10	21	NC	0.00062	U	0.00054	U	0.00052	U	0.00047	U	0.00062	U	0.00056	U	0.00056	U
Trichlorofluoromethane	NC	NC	NC	0.47	0.0049	U	0.0043	U	0.0042	U	0.0037	U	0.0049	U	0.0045	U	0.0045	U
Vinyl acetate	NC	NC	NC	NC	0.012	U	0.011	U	0.01	U	0.0094	U	0.012	U	0.011	U	0.011	U
Vinyl chloride	0.02	0.21	0.9	NC	0.0012	U	0.0011	U	0.001	U	0.00094	U	0.0012	U	0.0011	U	0.0011	U
Xylenes, Total	0.26	100	100	0.02	0.0012	U	0.0011	U	0.001	U	0.00094	U	0.0012	U	0.0011	U	0.0011	U
Total TIC Compounds	NC	NC	NC	NC	-	-	-	-	-	-	-	-	-	-	-	-	-	-

All analyitcal results for soil in milligrams per kilogram (mg/kg).

Q: Laboratory Qualifier

An empty Q column indicates no laboratory qualifier has been assigned.

U = Not detected at the reported detection limit for the sample.

R1 =reanalyzed

NC = No criteria established for this contaminant

E = Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J = Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater t

I = The lower value for the two columns has been reported due to obvious interference.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

d = For pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentratio

"-" = Analyte not analyzed

UUSCO = NYSDEC's December 2006 Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375).

RSCO = NYSDEC's December 2006 Residential Use Soil Cleanup Objectives (6 NYCRR 375-6)

RRSCO = NYSDEC's December 2006 Restricted Residential Use Soil Cleanup Objectives (6 NYCRR 375-6)

PGWSCO = NYSDEC's December 2006 Protection to Groundwater Soil Cleanup Objectives (6 NYCRR 375-6)

Reporting Limit Exceedes UUSCO

Concentration exceeds UUSCO

Concentration exceeds RSCO & UUSCO

Concentration exceeds RRSCO, RSCO & UUSCO

Concentration exceeds PGWSCO & UUSCO

Concentration exceeds PGWSCO, RSCO & UUSCO

Concentration exceeds PGWSCO, RRSCO, RSCO & UUSCO

Table 1
Soil Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

SAMPLE ID:	Part 375 Unrestricted Use SCOs	Part 375 Residential SCOs	Part 375 Restricted-Residential SCOs	Part 375 Protection of Groundwater SCOs	SB14 (2-4)		SB15 (1-3)		SB-16 (1.5-4.5)		SB16 (6.5-8.5)		SB17 (1-3.5)		SB18 (1-4)		SB18 (11-13)	
LAB ID:					L2168050-05		L2168372-03		L2168372-01		L2168372-02		L2167681-04		L2167681-02		L2167681-03	
COLLECTION DATE:					12/10/2021		12/13/2021		12/13/2021		12/13/2021		12/9/2021		12/9/2021		12/9/2021	
SAMPLE MATRIX:					Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore	
ANALYTE	mg/kg	mg/kg	mg/kg	mg/kg	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q
SEMI-VOLATILE ORGANICS																		
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
1,2,4-Trichlorobenzene	NC	NC	NC	NC	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
1,2-Dichlorobenzene	1.1	100	100	1.1	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
1,3-Dichlorobenzene	2.4	17	49	2.4	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
1,4-Dichlorobenzene	1.8	9.8	13	1.8	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
1,4-Dioxane	0.1	9.8	13	0.1	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	0.025	U	0.026	U
2,4,5-Trichlorophenol	NC	NC	NC	NC	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
2,4,6-Trichlorophenol	NC	NC	NC	NC	0.1	U	0.1	U	0.1	U	0.11	U	0.1	U	0.1	U	0.1	U
2,4-Dichlorophenol	NC	NC	NC	NC	0.15	U	0.15	U	0.16	U	0.16	U	0.16	U	0.15	U	0.15	U
2,4-Dimethylphenol	NC	NC	NC	NC	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
2,4-Dinitrophenol	NC	NC	NC	NC	0.82	U	0.82	U	0.83	U	0.85	U	0.83	U	0.8	U	0.82	U
2,4-Dinitrotoluene	NC	NC	NC	NC	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
2,6-Dinitrotoluene	NC	NC	NC	NC	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
2-Chloronaphthalene	NC	NC	NC	NC	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
2-Chlorophenol	NC	NC	NC	NC	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
2-Methylnaphthalene	NC	NC	NC	NC	0.2	U	0.21	U	0.21	U	0.21	U	0.21	U	0.2	U	0.2	U
2-Methylphenol	0.33	100	100	0.33	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
2-Nitroaniline	NC	NC	NC	NC	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
2-Nitrophenol	NC	NC	NC	NC	0.37	U	0.37	U	0.37	U	0.38	U	0.37	U	0.36	U	0.37	U
3,3'-Dichlorobenzidine	NC	NC	NC	NC	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
3-Methylphenol/4-Methylphenol	0.33	34	100	0.33	0.24	U	0.25	U	0.25	U	0.26	U	0.25	U	0.24	U	0.25	U
3-Nitroaniline	NC	NC	NC	NC	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
4,6-Dinitro-o-cresol	NC	NC	NC	NC	0.44	U	0.45	U	0.45	U	0.46	U	0.45	U	0.44	U	0.44	U
4-Bromophenyl phenyl ether	NC	NC	NC	NC	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
4-Chloroaniline	NC	NC	NC	NC	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
4-Nitroaniline	NC	NC	NC	NC	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
4-Nitrophenol	NC	NC	NC	NC	0.24	U	0.24	U	0.24	U	0.25	U	0.24	U	0.23	U	0.24	U
Acenaphthene	20	100	100	98	0.14	U	0.14	U	0.14	U	0.14	U	0.076	J	0.035	J	0.14	U
Acenaphthylene	100	100	100	107	0.14	U	0.14	U	0.14	U	0.14	U	0.28		0.13	U	0.14	U
Acetophenone	NC	NC	NC	NC	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
Anthracene	100	100	100	1000	0.042	J	0.1	U	0.1	U	0.11	U	0.38		0.034	J	0.1	U
Benzo(a)anthracene	1	1	1	1	0.1		0.019	J	0.039	J	0.06	J	**2.6**		0.17		0.1	U
Benzo(a)pyrene	1	1	1	22	0.088	J	0.14	U	0.14	U	0.066	J	**2.7**		0.17		0.14	U
Benzo(b)fluoranthene	1	1	1	1.7	0.13		0.1	U	0.043	J	0.08	J	**3.6**		0.23		0.1	U
Benzo(ghi)perylene	100	100	100	1000	0.058	J	0.14	U	0.022	J	0.074	J	1.8		0.12	J	0.14	U
Benzo(k)fluoranthene	0.8	1	3.9	1.7	0.027	J	0.1	U	0.1	U	0.11	U	**0.92**		0.063	J	0.1	U
Benzoic Acid	NC	NC	NC	NC	0.55	U	0.56	U	0.56	U	0.57	U	0.56	U	0.54	U	0.56	U
Benzyl Alcohol	NC	NC	NC	NC	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
Biphenyl	NC	NC	NC	NC	0.39	U	0.39	U	0.39	U	0.4	U	0.39	U	0.38	U	0.39	U
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	0.18	U	0.18	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U
Bis(2-chloroethyl)ether	NC	NC	NC	NC	0.15	U	0.15	U	0.16	U	0.16	U	0.16	U	0.15	U	0.15	U
Bis(2-chloroisopropyl)ether	NC	NC	NC	NC	0.2	U	0.21	U	0.21	U	0.21	U	0.21	U	0.2	U	0.2	U
Bis(2-ethylhexyl)phthalate	NC	NC	NC	NC	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
Butyl benzyl phthalate	NC	NC	NC	NC	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
Carbazole	NC	NC	NC	NC	0.024	J	0.17	U	0.17	U	0.18	U	0.051	J	0.17	U	0.17	U
Chrysene	1	1	3.9	1	0.09	J	0.1	U	0.029	J	0.056	J	**2.3**		0.16		0.1	U
Di-n-butylphthalate	NC	NC	NC	NC	0.47		0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
Di-n-octylphthalate	NC	NC	NC	NC	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
Dibenzo(a,h)anthracene	0.33	0.33	0.33	1000	0.1	U	0.1	U	0.1	U	0.11	U	**0.49**		0.03	J	0.1	U
Dibenzofuran	7	14	59	210	0.17	U	0.17	U	0.17	U	0.18	U	0.029	J	0.17	U	0.17	U
Diethyl phthalate	NC	NC	NC	NC	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
Dimethyl phthalate	NC	NC	NC	NC	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
Fluoranthene	100	100	100	1000	0.23		0.023	J	0.056	J	0.097	J	4.3		0.36		0.027	J
Fluorene	30	100	100	386	0.17	U	0.17	U	0.17	U	0.18	U	0.072	J	0.022	J	0.17	U
Hexachlorobenzene	0.33	0.33	1.2	3.2	0.1	U	0.1	U	0.1	U	0.11	U	0.1	U	0.1	U	0.1	U
Hexachlorobutadiene	NC	NC	NC	NC	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
Hexachlorocyclopentadiene	NC	NC	NC	NC	0.49	U	0.49	U	0.49	U	0.51	U	0.49	U	0.48	U	0.49	U
Hexachloroethane	NC	NC	NC	NC	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.13	U	0.14	U
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5	8.2	0.064	J	0.14	U	0.14	U	0.055	J	**2.1**		0.14		0.14	U
Isophorone	NC	NC	NC	NC	0.15	U	0.15	U	0.16	U	0.16	U	0.16	U	0.15	U	0.15	U
n-Nitrosodi-n-propylamine	NC	NC	NC	NC	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
Naphthalene	12	100	100	12	0.17	U	0.17	U	0.17	U	0.18	U	0.089	J	0.17	U	0.17	U
NDPA/DPA	NC	NC	NC	NC	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.13	U	0.14	U
Nitrobenzene	NC	NC	NC	NC	0.15	U	0.15	U	0.16	U	0.16	U	0.16	U	0.15	U	0.15	U
p-Chloro-m-cresol	NC	NC	NC	NC	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
Pentachlorophenol	0.8	2.4	6.7	0.8	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.13	U	0.14	U
Phenanthrene	100	100	100	1000	0.21		0.1	U	0.029	J	0.065	J	1.4		0.27		0.1	U
Phenol	0.33	100	100	0.33	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U
Pyrene	100	100	100	1000	0.21		0.022	J	0.053	J	0.092	J	4		0.32		0.022	J
Total TIC Compounds	NC	NC	NC	NC	-	-	-	-	-	-	-	-	-	-	-	-	-	-

All analyitcal results for soil in milligrams per kilogram (mg/kg).
Q: Laboratory Qualifier
An empty Q column indicates no laboratory qualifier has been assigned.
U = Not detected at the reported detection limit for the sample.
R1 =reanalyzed
NC = No criteria established for this contaminant
E = Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
J = Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater t
I - The lower value for the two columns has been reported due to obvious interference.
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"-" = Analyte not analyzed
UUSCO = NYSDEC's December 2006 Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375).
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Reporting Limit Exceeds UUSCO

Concentration exceeds UUSCO
Concentration exceeds RSCO & UUSCO
Concentration exceeds RRSCO, RSCO & UUSCO
Concentration exceeds PGWSCO & UUSCO
Concentration exceeds PGWSCO, RSCO & UUSCO
Concentration exceeds PGWSCO, RRSCO, RSCO & UUSCO

Table 1
Soil Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

SAMPLE ID:	Part 375 Unrestricted Use SCOs	Part 375 Residential SCOs	Part 375 Restricted-Residential SCOs	Part 375 Protection of Groundwater SCOs	SB14 (2-4)		SB15 (1-3)		SB-16 (1.5-4.5)		SB16 (6.5-8.5)		SB17 (1-3.5)		SB18 (1-4)		SB18 (11-13)	
LAB ID:					L2168050-05		L2168372-03		L2168372-01		L2168372-02		L2167681-04		L2167681-02		L2167681-03	
COLLECTION DATE:					12/10/2021		12/13/2021		12/13/2021		12/13/2021		12/9/2021		12/9/2021		12/9/2021	
SAMPLE MATRIX:					Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore	
ANALYTE	mg/kg	mg/kg	mg/kg	mg/kg	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q
CHLORINATED HERBICIDES BY GC																		
2,4,5-T	NC	NC	NC	NC	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	3.8	58	100	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-D	NC	NC	NC	NC	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PETROLEUM HYDROCARBONS																		
TPH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PESTICIDES																		
4,4'-DDD	0.0033	2.6	13	14	0.00163	U	0.00168	U	0.00166	U	0.00171	U	0.00165	U	0.00161	U	0.00158	U
4,4'-DDE	0.0033	1.8	8.9	17	0.00163	U	0.00146	J	0.00166	U	0.00171	U	0.00165	U	0.00161	U	0.00158	U
4,4'-DDT	0.0033	1.7	7.9	136	0.00305	U	0.00195	J	0.00311	U	0.00264	J	0.0031	U	0.00302	U	0.00296	U
Aldrin	0.005	0.019	0.097	0.19	0.00163	U	0.00168	U	0.00166	U	0.00171	U	0.00165	U	0.00161	U	0.00158	U
Alpha-BHC	0.02	0.097	0.48	0.02	0.000678	U	0.000698	U	0.000691	U	0.000713	U	0.000689	U	0.000672	U	0.000657	U
Beta-BHC	0.036	0.072	0.36	0.09	0.00163	U	0.00168	U	0.00166	U	0.00171	U	0.00165	U	0.00161	U	0.00158	U
Chlordane	NC	NC	NC	NC	0.0136	U	0.014	U	0.0138	U	0.0142	U	0.0138	U	0.0134	U	0.0131	U
cis-Chlordane	0.094	0.91	4.2	2.9	0.00204	U	0.00209	U	0.00207	U	0.00214	U	0.00174	JP	0.00202	U	0.00197	U
Delta-BHC	0.04	100	100	0.25	0.00163	U	0.00168	U	0.00166	U	0.00171	U	0.00165	U	0.00161	U	0.00158	U
Dieldrin	0.005	0.039	0.2	0.1	0.00102	U	0.00105	U	0.00104	U	0.00107	U	0.00103	U	0.00101	U	0.000986	U
Endosulfan I	2.4	4.8	24	102	0.00163	U	0.00168	U	0.00166	U	0.00171	U	0.00165	U	0.00161	U	0.00158	U
Endosulfan II	2.4	4.8	24	102	0.00163	U	0.00168	U	0.00166	U	0.00171	U	0.00165	U	0.00161	U	0.00158	U
Endosulfan sulfate	2.4	4.8	24	1000	0.000678	U	0.000698	U	0.000691	U	0.000713	U	0.000689	U	0.000672	U	0.000657	U
Endrin	0.014	2.2	11	0.06	0.000678	U	0.000698	U	0.000691	U	0.000713	U	0.000689	U	0.000672	U	0.000657	U
Endrin aldehyde	NC	NC	NC	NC	0.00204	U	0.00209	U	0.00207	U	0.00214	U	0.00206	U	0.00202	U	0.00197	U
Endrin ketone	NC	NC	NC	NC	0.00163	U	0.00168	U	0.00166	U	0.00171	U	0.00165	U	0.00161	U	0.00158	U
Heptachlor	0.042	0.42	2.1	0.38	0.000814	U	0.000838	U	0.000829	U	0.000855	U	0.000826	U	0.000806	U	0.000789	U
Heptachlor epoxide	NC	NC	NC	NC	0.00305	U	0.00314	U	0.00311	U	0.00321	U	0.0031	U	0.00302	U	0.00296	U
Lindane	0.1	0.28	1.3	0.1	0.000678	U	0.000698	U	0.000691	U	0.000713	U	0.000689	U	0.000672	U	0.000657	U
Methoxychlor	NC	NC	NC	NC	0.00305	U	0.00314	U	0.00311	U	0.00321	U	0.0031	U	0.00302	U	0.00296	U
Toxaphene	NC	NC	NC	NC	0.0305	U	0.0314	U	0.0311	U	0.0321	U	0.031	U	0.0302	U	0.0296	U
trans-Chlordane	NC	NC	NC	NC	0.00204	U	0.00209	U	0.00207	U	0.00214	U	0.0019	J	0.00202	U	0.00197	U
PCBs																		
Aroclor 1016	0.1	1	1	3.2	0.0334	U	0.0334	U	0.0344	U	0.034	U	0.0347	U	0.0334	U	0.0331	U
Aroclor 1221	0.1	1	1	3.2	0.0334	U	0.0334	U	0.0344	U	0.034	U	0.0347	U	0.0334	U	0.0331	U
Aroclor 1232	0.1	1	1	3.2	0.0334	U	0.0334	U	0.0344	U	0.034	U	0.0347	U	0.0334	U	0.0331	U
Aroclor 1242	0.1	1	1	3.2	0.0334	U	0.0334	U	0.0344	U	0.034	U	0.0347	U	0.0334	U	0.0331	U
Aroclor 1248	0.1	1	1	3.2	0.0334	U	0.0334	U	0.0344	U	0.034	U	0.0347	U	0.0334	U	0.0331	U
Aroclor 1254	0.1	1	1	3.2	0.0334	U	0.0334	U	0.0344	U	0.034	U	0.0347	U	0.0334	U	0.0331	U
Aroclor 1260	0.1	1	1	3.2	0.0334	U	0.0334	U	0.0344	U	0.034	U	0.0347	U	0.0334	U	0.0331	U
Aroclor 1262	0.1	1	1	3.2	0.0334	U	0.0334	U	0.0344	U	0.034	U	0.0347	U	0.0334	U	0.0331	U
Aroclor 1268	0.1	1	1	3.2	0.0334	U	0.0334	U	0.0344	U	0.034	U	0.0347	U	0.0334	U	0.0331	U
TOTAL METALS																		
Aluminum, Total	NC	NC	NC	NC	947		979		1570		6290		1320		1360		1050	
Antimony, Total	NC	NC	NC	NC	4.07	U	4.2	U	4.02	U	4.22	U	4.05	U	3.96	U	4.03	U
Arsenic, Total	13	16	16	16	1.28		0.839		1.69		1.16		1.55		1.39		1.29	
Barium, Total	350	350	400	820	6.56		6.13		12.2		62.8		9		9.47		3.75	
Beryllium, Total	7.2	14	72	47	0.049	J	0.042	J	0.072	J	0.169	J	0.073	J	0.071	J	0.056	J
Cadmium, Total	2.5	2.5	4.3	7.5	0.813	U	0.839	U	0.804	U	0.844	U	0.81	U	0.792	U	0.806	U
Calcium, Total	NC	NC	NC	NC	1270		382		3230		4680		2500		1060		1770	
Chromium, Total	NC	NC	NC	NC	3.62		2.5		7.34		17.2		5.36		4.71		11.2	
Cobalt, Total	NC	NC	NC	NC	1.34	J	0.907	J	2.14		7.89		1.72		1.9		1.47	J
Copper, Total	50	270	270	1720	3.1		2.59		4.88		22.7		4.72		3.92		3.22	
Iron, Total	NC	NC	NC	NC	2650		1920		3790		12200		3550		3470		3450	
Lead, Total	63	400	400	450	8.83		4.6		11.4		13.5		10.2		8.96		4.35	
Magnesium, Total	NC	NC	NC	NC	765		354		1300		4360		935		1020		649	
Manganese, Total	1600	2000	2000	2000	45.8		39.6		72.5		144		90.6		71.9		64.1	
Mercury, Total	0.18	0.81	0.81	0.73	0.068	U	0.068	U	0.075		0.053	J	0.05	J	0.075		0.065	U
Nickel, Total	30	140	310	130	3.59		1.66	J	6.25		13.3		4.76		7.05		4.43	
Potassium, Total	NC	NC	NC	NC	215		177	J	443		3320		310		352		244	
Selenium, Total	3.9	36	180	4	1.63	U	1.68	U	1.61	U	1.69	U	1.62	U	1.58	U	0.338	J
Silver, Total	2	36	180	8.3	0.813	U	0.839	U	0.804	U	0.844	U	0.81	U	0.792	U	0.806	U
Sodium, Total	NC	NC	NC	NC	36.8	J	11.8	J	49	J	152	J	70.3	J	68.2	J	52.5	J
Thallium, Total	NC	NC	NC	NC	1.63	U	1.68	U	1.61	U	1.69	U	1.62	U	1.58	U	1.61	U
Vanadium, Total	NC	NC	NC	NC	3.33		3.2		5.09		17.3		4.78		4.97		3.96	
Zinc, Total	109	2200	10000	2480	12.4		9.56		17.8		39.8		17.2		14.5		8.16	
GENERAL CHEMISTRY																		
Chromium, Hexavalent	1	22	110	19	0.826	U	0.853	U	0.842	U	0.862	U	0.848	U	0.815	U	0.827	U
Cyanide, Total	27	27	27	40	0.98	U	1	U	0.96	U	1	U	0.48	J	0.99	U	0.95	U
Solids, Total	NC	NC	NC	NC	96.9		93.8		95		92.8		94.3		98.2		96.7	

All analyitcal results for soil in milligrams per kilogram (mg/kg).

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Reporting Limit Exceedes UUSCO

Concentration exceeds UUSCO

Concentration exceeds RSCO & UUSCO

Concentration exceeds RRSCO, RSCO & UUSCO

Concentration exceeds PGWSCO & UUSCO

Concentration exceeds PGWSCO, RSCO & UUSCO

Concentration exceeds PGWSCO, RRSCO, RSCO & UUSCO

Table 1
Soil Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

SAMPLE ID:	Part 375 Unrestricted Use SCOs	Part 375 Residential SCOs	Part 375 Restricted-Residential SCOs	Part 375 Protection of Groundwater SCOs	SB19 (1-3)		SB20 (1-3)		SB20 (9-11)		SB21 (1-3)		SB21 (10-12)		SB22 (0-2)		SB23 (1-3)	
LAB ID:					L2167681-01		L2166780-03		L2166780-04		L2166780-01		L2166780-02		L2210610-01		L2166661-03	
COLLECTION DATE:					12/9/2021		12/6/2021		12/6/2021		12/6/2021		12/6/2021		3/1/2022		12/3/2021	
SAMPLE MATRIX:					Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore	
ANALYTE	mg/kg	mg/kg	mg/kg	mg/kg	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q
VOLATILE ORGANICS																		
1,1,1,2-Tetrachloroethane	NC	NC	NC	NC	0.00058	U	0.00063	U	0.00067	U	0.00059	U	0.00052	U	0.0003	U	0.00072	U
1,1,1-Trichloroethane	0.68	100	100	NC	0.00058	U	0.00063	U	0.00067	U	0.00059	U	0.00052	U	0.0003	U	0.00072	U
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.68	0.00058	U	0.00063	U	0.00067	U	0.00059	U	0.00052	U	0.0003	U	0.00072	U
1,1,2-Trichloroethane	NC	NC	NC	NC	0.0012	U	0.0012	U	0.0013	U	0.0012	U	0.001	U	0.00061	U	0.0014	U
1,1-Dichloroethane	0.27	19	26	NC	0.0012	U	0.0012	U	0.0013	U	0.0012	U	0.001	U	0.00061	U	0.0014	U
1,1-Dichloroethene	0.33	100	100	0.27	0.0012	U	0.0012	U	0.0013	U	0.0012	U	0.001	U	0.00061	U	0.0014	U
1,1-Dichloropropene	NC	NC	NC	0.33	0.00058	U	0.00063	U	0.00067	U	0.00059	U	0.00052	U	0.0003	U	0.00072	U
1,2,3-Trichlorobenzene	NC	NC	NC	NC	0.0023	U	0.0025	U	0.0027	U	0.0023	U	0.0021	U	0.0012	U	0.0029	U
1,2,3-Trichloropropane	NC	NC	NC	NC	0.0023	U	0.0025	U	0.0027	U	0.0023	U	0.0021	U	0.0012	U	0.0029	U
1,2,4,5-Tetramethylbenzene	NC	NC	NC	NC	0.0023	U	0.0025	U	0.0027	U	0.0023	U	0.0021	U	0.0012	U	0.0029	U
1,2,4-Trichlorobenzene	NC	NC	NC	NC	0.0023	U	0.0025	U	0.0027	U	0.0023	U	0.0021	U	0.0012	U	0.0029	U
1,2,4-Trimethylbenzene	3.6	47	52	NC	0.0023	U	0.0025	U	0.0027	U	0.0023	U	0.0021	U	0.0012	U	0.0029	U
1,2-Dibromo-3-chloropropane	NC	NC	NC	3.6	0.0035	U	0.0038	U	0.004	U	0.0035	U	0.0031	U	0.0018	U	0.0043	U
1,2-Dibromoethane	NC	NC	NC	NC	0.0012	U	0.0012	U	0.0013	U	0.0012	U	0.001	U	0.00061	U	0.0014	U
1,2-Dichlorobenzene	1.1	100	100	NC	0.0023	U	0.0025	U	0.0027	U	0.0023	U	0.0021	U	0.0012	U	0.0029	U
1,2-Dichloroethane	0.02	2.3	3.1	1.1	0.0012	U	0.0012	U	0.0013	U	0.0012	U	0.001	U	0.00061	U	0.0014	U
1,2-Dichloroethene, Total	NC	NC	NC	0.02	0.0012	U	0.0012	U	0.0013	U	0.0012	U	0.001	U	0.00061	U	0.0014	U
1,2-Dichloropropane	NC	NC	NC	NC	0.0012	U	0.0012	U	0.0013	U	0.0012	U	0.001	U	0.00061	U	0.0014	U
1,3,5-Trimethylbenzene	8.4	47	52	NC	0.0023	U	0.0025	U	0.0027	U	0.0023	U	0.0021	U	0.0012	U	0.0029	U
1,3-Dichlorobenzene	2.4	17	49	8.4	0.0023	U	0.0025	U	0.0027	U	0.0023	U	0.0021	U	0.0012	U	0.0029	U
1,3-Dichloropropane	NC	NC	NC	2.4	0.0023	U	0.0025	U	0.0027	U	0.0023	U	0.0021	U	0.0012	U	0.0029	U
1,3-Dichloropropene, Total	NC	NC	NC	NC	0.00058	U	0.00063	U	0.00067	U	0.00059	U	0.00052	U	0.0003	U	0.00072	U
1,4-Dichlorobenzene	1.8	9.8	13	NC	0.0023	U	0.0025	U	0.0027	U	0.0023	U	0.0021	U	0.0012	U	0.0029	U
1,4-Dioxane	0.1	9.8	13	1.8	0.092	U	***0.1***	***U***	***0.11***	***U***	0.094	U	0.083	U	0.048	U	***0.12***	***U***
2,2-Dichloropropane	NC	NC	NC	0.1	0.0023	U	0.0025	U	0.0027	U	0.0023	U	0.0021	U	0.0012	U	0.0029	U
2-Butanone	0.12	100	100	NC	0.012	U	0.012	U	0.013	U	0.012	U	0.01	U	0.0061	U	0.014	U
2-Hexanone	NC	NC	NC	0.12	0.012	U	0.012	U	0.013	U	0.012	U	0.01	U	0.0061	U	0.014	U
4-Methyl-2-pentanone	NC	NC	NC	NC	0.012	U	0.012	U	0.013	U	0.012	U	0.01	U	0.0061	U	0.014	U
Acetone	0.05	100	100	NC	0.012	U	0.012	U	0.013	U	0.012	U	0.01	U	0.0061	U	0.014	U
Acrylonitrile	NC	NC	NC	0.05	0.0046	U	0.005	U	0.0054	U	0.0047	U	0.0041	U	0.0024	U	0.0058	U
Benzene	0.06	2.9	4.8	NC	0.00058	U	0.00063	U	0.00067	U	0.00059	U	0.00052	U	0.0003	U	0.00072	U
Bromobenzene	NC	NC	NC	0.06	0.0023	U	0.0025	U	0.0027	U	0.0023	U	0.0021	U	0.0012	U	0.0029	U
Bromochloromethane	NC	NC	NC	NC	0.0023	U	0.0025	U	0.0027	U	0.0023	U	0.0021	U	0.0012	U	0.0029	U
Bromodichloromethane	NC	NC	NC	NC	0.00058	U	0.00063	U	0.00067	U	0.00059	U	0.00052	U	0.0003	U	0.00072	U
Bromoform	NC	NC	NC	NC	0.0046	U	0.005	U	0.0054	U	0.0047	U	0.0041	U	0.0024	U	0.0058	U
Bromomethane	NC	NC	NC	NC	0.0023	U	0.0025	U	0.0027	U	0.0023	U	0.0021	U	0.0012	U	0.0029	U
Carbon disulfide	NC	NC	NC	NC	0.012	U	0.012	U	0.013	U	0.012	U	0.01	U	0.0061	U	0.014	U
Carbon tetrachloride	0.76	1.4	2.4	NC	0.0012	U	0.0012	U	0.0013	U	0.0012	U	0.001	U	0.00061	U	0.0014	U
Chlorobenzene	1.1	100	100	0.76	0.00058	U	0.00063	U	0.00067	U	0.00059	U	0.00052	U	0.0003	U	0.00072	U
Chloroethane	NC	NC	NC	1.1	0.0023	U	0.0025	U	0.0027	U	0.0023	U	0.0021	U	0.0012	U	0.0029	U
Chloroform	0.37	10	49	NC	0.00068	J	0.0019	U	0.00068	J	0.0018	U	0.0016	U	0.00091	U	0.0022	U
Chloromethane	NC	NC	NC	0.37	0.0046	U	0.005	U	0.0054	U	0.0047	U	0.0041	U	0.0024	U	0.0058	U
cis-1,2-Dichloroethene	0.25	59	100	NC	0.0012	U	0.0012	U	0.0013	U	0.0012	U	0.001	U	0.00061	U	0.0014	U
cis-1,3-Dichloropropene	NC	NC	NC	0.25	0.00058	U	0.00063	U	0.00067	U	0.00059	U	0.00052	U	0.0003	U	0.00072	U
Dibromochloromethane	NC	NC	NC	NC	0.0012	U	0.0012	U	0.0013	U	0.0012	U	0.001	U	0.00061	U	0.0014	U
Dibromomethane	NC	NC	NC	NC	0.0023	U	0.0025	U	0.0027	U	0.0023	U	0.0021	U	0.0012	U	0.0029	U
Dichlorodifluoromethane	NC	NC	NC	NC	0.012	U	0.012	U	0.013	U	0.012	U	0.01	U	0.0061	U	0.014	U
Ethyl ether	NC	NC	NC	NC	0.0023	U	0.0025	U	0.0027	U	0.0023	U	0.0021	U	0.0012	U	0.0029	U
Ethylbenzene	1	30	41	NC	0.0012	U	0.0012	U	0.0013	U	0.0012	U	0.001	U	0.00061	U	0.0014	U
Hexachlorobutadiene	NC	NC	NC	1	0.0046	U	0.005	U	0.0054	U	0.0047	U	0.0041	U	0.0024	U	0.0058	U
Isopropylbenzene	NC	NC	NC	NC	0.0012	U	0.0012	U	0.0013	U	0.0012	U	0.001	U	0.00061	U	0.0014	U
Methyl tert butyl ether	0.93	62	100	NC	0.0023	U	0.0025	U	0.0027	U	0.0023	U	0.0021	U	0.0012	U	0.0029	U
Methylene chloride	0.05	51	100	0.93	0.0058	U	0.0063	U	0.0067	U	0.0059	U	0.0052	U	0.003	U	0.0072	U
n-Butylbenzene	12	100	100	0.05	0.0012	U	0.0012	U	0.0013	U	0.0012	U	0.001	U	0.00061	U	0.0014	U
n-Propylbenzene	3.9	100	100	12	0.0012	U	0.0012	U	0.0013	U	0.0012	U	0.001	U	0.00061	U	0.0014	U
Naphthalene	12	100	100	3.9	0.0046	U	0.005	U	0.0054	U	0.0047	U	0.0041	U	0.0024	U	0.0058	U
o-Chlorotoluene	NC	NC	NC	12	0.0023	U	0.0025	U	0.0027	U	0.0023	U	0.0021	U	0.0012	U	0.0029	U
o-Xylene	NC	NC	NC	NC	0.0012	U	0.0012	U	0.0013	U	0.0012	U	0.001	U	0.00061	U	0.0014	U
p-Chlorotoluene	NC	NC	NC	NC	0.0023	U	0.0025	U	0.0027	U	0.0023	U	0.0021	U	0.0012	U	0.0029	U
p-Diethylbenzene	NC	NC	NC	NC	0.0023	U	0.0025	U	0.0027	U	0.0023	U	0.0021	U	0.0012	U	0.0029	U
p-Ethyltoluene	NC	NC	NC	NC	0.0023	U	0.0025	U	0.0027	U	0.0023	U	0.0021	U	0.0012	U	0.0029	U
p-Isopropyltoluene	NC	NC	NC	NC	0.0012	U	0.0012	U	0.0013	U	0.0012	U	0.001	U	0.00061	U	0.0014	U
p/m-Xylene	NC	NC	NC	NC	0.0023	U	0.0025	U	0.0027	U	0.0023	U	0.0021	U	0.0012	U	0.0029	U
sec-Butylbenzene	11	100	100	NC	0.0012	U	0.0012	U	0.0013	U	0.0012	U	0.001	U	0.00061	U	0.0014	U
Styrene	NC	NC	NC	11	0.0012	U	0.0012	U	0.0013	U	0.0012	U	0.001	U	0.00061	U	0.0014	U
tert-Butylbenzene	5.9	100	100	NC	0.0023	U	0.0025	U	0.0027	U	0.0023	U	0.0021	U	0.0012	U	0.0029	U
Tetrachloroethene	1.3	5.5	19	5.9	0.00058	U	0.00063	U	0.00067	U	0.00059	U	0.00052	U	0.00032		0.00072	U
Toluene	0.7	100	100	1.3	0.0012	U	0.0012	U	0.0013	U	0.0012	U	0.001	U	0.00061	U	0.0014	U
trans-1,2-Dichloroethene	0.19	100	100	0.7	0.0017	U	0.0019	U	0.002	U	0.0018	U	0.0016	U	0.00091	U	0.0022	U
trans-1,3-Dichloropropene	NC	NC	NC	0.19	0.0012	U	0.0012	U	0.0013	U	0.0012	U	0.001	U	0.00061	U	0.0014	U
trans-1,4-Dichloro-2-butene	NC	NC	NC	NC	0.0058	U	0.0063	U	0.0067	U	0.0059	U	0.0052	U	0.003	U	0.0072	U
Trichloroethene	0.47	10	21	NC	0.00058	U	0.00063	U	0.00067	U	0.00059	U	0.00052	U	0.0003	U	0.00072	U
Trichlorofluoromethane	NC	NC	NC	0.47	0.0046	U	0.005	U	0.0054	U	0.0047	U	0.0041	U	0.0024	U	0.0058	U
Vinyl acetate	NC	NC	NC	NC	0.012	U	0.012	U	0.013	U	0.012	U	0.01	U	0.0061	U	0.014	U
Vinyl chloride	0.02	0.21	0.9	NC	0.0012	U	0.0012	U	0.0013	U	0.0012	U	0.001	U	0.00061	U	0.0014	U
Xylenes, Total	0.26	100	100	0.02	0.0012	U	0.0012	U	0.0013	U	0.0012	U	0.001	U	0.00061	U	0.0014	U
Total TIC Compounds	NC	NC	NC	NC	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Reporting Limit Exceedes UUSCO

Concentration exceeds UUSCO

Concentration exceeds RSCO & UUSCO

Concentration exceeds RRSCO, RSCO & UUSCO

Concentration exceeds PGWSCO & UUSCO

Concentration exceeds PGWSCO, RSCO & UUSCO

Concentration exceeds PGWSCO, RRSCO, RSCO & UUSCO

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New York, New York
20-1152

SAMPLE ID:	Part 375 Unrestricted Use SCOs	Part 375 Residential SCOs	Part 375 Restricted-Residential SCOs	Part 375 Protection of Groundwater SCOs	SB19 (1-3)		SB20 (1-3)		SB20 (9-11)		SB21 (1-3)		SB21 (10-12)		SB22 (0-2)		SB23 (1-3)	
LAB ID:					L2167681-01		L2166780-03		L2166780-04		L2166780-01		L2166780-02		L2210610-01		L2166661-03	
COLLECTION DATE:					12/9/2021		12/6/2021		12/6/2021		12/6/2021		12/6/2021		3/1/2022		12/3/2021	
SAMPLE MATRIX:					Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore	
ANALYTE	mg/kg	mg/kg	mg/kg	mg/kg	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q
SEMI-VOLATILE ORGANICS																		
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
1,2,4-Trichlorobenzene	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
1,2-Dichlorobenzene	1.1	100	100	1.1	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
1,3-Dichlorobenzene	2.4	17	49	2.4	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
1,4-Dichlorobenzene	1.8	9.8	13	1.8	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
1,4-Dioxane	0.1	9.8	13	0.1	0.026	U	0.025	U	0.03	U	0.025	U	0.025	U	0.031	U	0.026	U
2,4,5-Trichlorophenol	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
2,4,6-Trichlorophenol	NC	NC	NC	NC	0.1	U	0.1	U	0.12	U	0.1	U	0.1	U	0.12	U	0.1	U
2,4-Dichlorophenol	NC	NC	NC	NC	0.15	U	0.15	U	0.18	U	0.15	U	0.15	U	0.18	U	0.16	U
2,4-Dimethylphenol	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
2,4-Dinitrophenol	NC	NC	NC	NC	0.82	U	0.81	U	0.96	U	0.81	U	0.8	U	0.99	U	0.84	U
2,4-Dinitrotoluene	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
2,6-Dinitrotoluene	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
2-Chloronaphthalene	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
2-Chlorophenol	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
2-Methylnaphthalene	NC	NC	NC	NC	0.21	U	0.2	U	0.24	U	0.2	U	0.2	U	0.25	U	0.21	U
2-Methylphenol	0.33	100	100	0.33	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
2-Nitroaniline	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
2-Nitrophenol	NC	NC	NC	NC	0.37	U	0.36	U	0.43	U	0.36	U	0.36	U	0.45	U	0.38	U
3,3'-Dichlorobenzidine	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
3-Methylphenol/4-Methylphenol	0.33	34	100	0.33	0.25	U	0.24	U	0.29	U	0.24	U	0.24	U	0.3	U	0.25	U
3-Nitroaniline	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
4,6-Dinitro-o-cresol	NC	NC	NC	NC	0.45	U	0.44	U	0.52	U	0.44	U	0.43	U	0.54	U	0.46	U
4-Bromophenyl phenyl ether	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
4-Chloroaniline	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
4-Nitroaniline	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
4-Nitrophenol	NC	NC	NC	NC	0.24	U	0.24	U	0.28	U	0.24	U	0.23	U	0.29	U	0.24	U
Acenaphthene	20	100	100	98	0.14	U	0.13	U	0.16	U	0.14	U	0.13	U	0.16	U	0.045	J
Acenaphthylene	100	100	100	107	0.14	U	0.13	U	0.16	U	0.028	J	0.13	U	0.16	U	0.084	J
Acetophenone	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
Anthracene	100	100	100	1000	0.1	U	0.1	U	0.12	U	0.039	J	0.1	U	0.12	U	0.13	
Benzo(a)anthracene	1	1	1	1	0.08	J	0.1	U	0.04	J	0.14		0.027	J	0.14		0.43	
Benzo(a)pyrene	1	1	1	22	0.076	J	0.13	U	0.16	U	0.13	J	0.13	U	0.14	J	0.41	
Benzo(b)fluoranthene	1	1	1	1.7	0.11		0.1	U	0.12	U	0.18		0.03	J	0.2		0.51	
Benzo(ghi)perylene	100	100	100	1000	0.062	J	0.13	U	0.16	U	0.093	J	0.13	U	0.089	J	0.26	
Benzo(k)fluoranthene	0.8	1	3.9	1.7	0.028	J	0.1	U	0.12	U	0.043	J	0.1	U	0.052	J	0.19	
Benzoic Acid	NC	NC	NC	NC	0.56	U	0.54	U	0.64	U	0.55	U	0.54	U	0.67	U	0.57	U
Benzyl Alcohol	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
Biphenyl	NC	NC	NC	NC	0.39	U	0.38	U	0.45	U	0.38	U	0.38	U	0.47	U	0.4	U
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	0.18	U	0.18	U	0.22	U	0.18	U	0.18	U	0.22	U	0.19	U
Bis(2-chloroethyl)ether	NC	NC	NC	NC	0.15	U	0.15	U	0.18	U	0.15	U	0.15	U	0.18	U	0.16	U
Bis(2-chloroisopropyl)ether	NC	NC	NC	NC	0.21	U	0.2	U	0.24	U	0.2	U	0.2	U	0.25	U	0.21	U
Bis(2-ethylhexyl)phthalate	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.09	J	0.17	U	0.21	U	0.18	U
Butyl benzyl phthalate	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
Carbazole	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.019	J	0.17	U	0.026	J	0.042	J
Chrysene	1	1	3.9	1	0.074	J	0.1	U	0.032	J	0.14		0.024	J	0.15		0.42	
Di-n-butylphthalate	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
Di-n-octylphthalate	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
Dibenzo(a,h)anthracene	0.33	0.33	0.33	1000	0.1	U	0.1	U	0.12	U	0.023	J	0.1	U	0.12	U	0.062	J
Dibenzofuran	7	14	59	210	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.021	J
Diethyl phthalate	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
Dimethyl phthalate	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
Fluoranthene	100	100	100	1000	0.13		0.019	J	0.067	J	0.26		0.041	J	0.36		0.86	
Fluorene	30	100	100	386	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.022	J	0.04	J
Hexachlorobenzene	0.33	0.33	1.2	3.2	0.1	U	0.1	U	0.12	U	0.1	U	0.1	U	0.12	U	0.1	U
Hexachlorobutadiene	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
Hexachlorocyclopentadiene	NC	NC	NC	NC	0.49	U	0.48	U	0.57	U	0.48	U	0.48	U	0.59	U	0.5	U
Hexachloroethane	NC	NC	NC	NC	0.14	U	0.13	U	0.16	U	0.14	U	0.13	U	0.16	U	0.14	U
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5	8.2	0.062	J	0.13	U	0.16	U	0.1	J	0.13	U	0.11	J	0.3	
Isophorone	NC	NC	NC	NC	0.15	U	0.15	U	0.18	U	0.15	U	0.15	U	0.18	U	0.16	U
n-Nitrosodi-n-propylamine	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
Naphthalene	12	100	100	12	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.024	J
NDPA/DPA	NC	NC	NC	NC	0.14	U	0.13	U	0.16	U	0.14	U	0.13	U	0.16	U	0.14	U
Nitrobenzene	NC	NC	NC	NC	0.15	U	0.15	U	0.18	U	0.15	U	0.15	U	0.18	U	0.16	U
p-Chloro-m-cresol	NC	NC	NC	NC	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
Pentachlorophenol	0.8	2.4	6.7	0.8	0.14	U	0.13	U	0.16	U	0.14	U	0.13	U	0.16	U	0.14	U
Phenanthrene	100	100	100	1000	0.078	J	0.1	U	0.034	J	0.16		0.025	J	0.29		0.48	
Phenol	0.33	100	100	0.33	0.17	U	0.17	U	0.2	U	0.17	U	0.17	U	0.21	U	0.18	U
Pyrene	100	100	100	1000	0.13		0.017	J	0.062	J	0.24		0.04	J	0.28		0.78	
Total TIC Compounds	NC	NC	NC	NC	-	-	-	-	-	-	-	-	-	-	-	-	-	-

All analyitcal results for soil in milligrams per kilogram (mg/kg).

Q: Laboratory Qualifier

An empty Q column indicates no laboratory qualifier has been assigned.

U = Not detected at the reported detection limit for the sample.

R1 =reanalyzed

NC = No criteria established for this contaminant

E = Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J = Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater t

I - The lower value for the two columns has been reported due to obvious interference.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

d = For pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentratio

"-" = Analyte not analyzed

UUSCO = NYSDEC's December 2006 Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375).

RSCO = NYSDEC's December 2006 Residential Use Soil Cleanup Objectives (6 NYCRR 375-6)

RRSCO = NYSDEC's December 2006 Restricted Residential Use Soil Cleanup Objectives (6 NYCRR 375-6)

PGWSCO = NYSDEC's December 2006 Protection to Groundwater Soil Cleanup Objectives (6 NYCRR 375-6)

Reporting Limit Exceedes UUSCO

Concentration exceeds UUSCO

Concentration exceeds RSCO & UUSCO

Concentration exceeds RRSCO, RSCO & UUSCO

Concentration exceeds PGWSCO & UUSCO

Concentration exceeds PGWSCO, RSCO & UUSCO

Concentration exceeds PGWSCO, RRSCO, RSCO & UUSCO

Table 1
Soil Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

SAMPLE ID:	Part 375 Unrestricted Use SCOs	Part 375 Residential SCOs	Part 375 Restricted-Residential SCOs	Part 375 Protection of Groundwater SCOs	SB19 (1-3)		SB20 (1-3)		SB20 (9-11)		SB21 (1-3)		SB21 (10-12)		SB22 (0-2)		SB23 (1-3)	
LAB ID:					L2167681-01		L2166780-03		L2166780-04		L2166780-01		L2166780-02		L2210610-01		L2166661-03	
COLLECTION DATE:					12/9/2021		12/6/2021		12/6/2021		12/6/2021		12/6/2021		3/1/2022		12/3/2021	
SAMPLE MATRIX:					Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore	
ANALYTE	mg/kg	mg/kg	mg/kg	mg/kg	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q
CHLORINATED HERBICIDES BY GC																		
2,4,5-T	NC	NC	NC	NC	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	3.8	58	100	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-D	NC	NC	NC	NC	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PETROLEUM HYDROCARBONS																		
TPH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PESTICIDES																		
4,4'-DDD	0.0033	2.6	13	14	0.00163	U	0.00159	U	0.00183	U	0.000645	J	0.00158	U	0.000726	J	0.00134	J
4,4'-DDE	0.0033	1.8	8.9	17	0.00163	U	0.00159	U	0.00045	J	0.00161	U	0.00158	U	**0.00537**		0.0016	J
4,4'-DDT	0.0033	1.7	7.9	136	0.00306	U	0.00299	U	***0.00343***	***U***	0.00302	U	0.00296	U	0.00278	JP	**0.00664**	
Aldrin	0.005	0.019	0.097	0.19	0.00163	U	0.00159	U	0.00183	U	0.00161	U	0.00158	U	0.00192	U	0.00171	U
Alpha-BHC	0.02	0.097	0.48	0.02	0.000679	U	0.000664	U	0.000763	U	0.00067	U	0.000658	U	0.000799	U	0.000711	U
Beta-BHC	0.036	0.072	0.36	0.09	0.00163	U	0.00159	U	0.00183	U	0.00161	U	0.00158	U	0.00192	U	0.00171	U
Chlordane	NC	NC	NC	NC	0.0136	U	0.0133	U	0.0153	U	0.0134	U	0.0132	U	0.016	U	0.0142	U
cis-Chlordane	0.094	0.91	4.2	2.9	0.00204	U	0.00199	U	0.00229	U	0.00201	U	0.00197	U	0.0071	IP	0.00195	J
Delta-BHC	0.04	100	100	0.25	0.00163	U	0.00159	U	0.00183	U	0.00161	U	0.00158	U	0.00192	U	0.00171	U
Dieldrin	0.005	0.039	0.2	0.1	0.00102	U	0.000997	U	0.00114	U	0.001	U	0.000987	U	0.00279		0.00107	U
Endosulfan I	2.4	4.8	24	102	0.00163	U	0.00159	U	0.00183	U	0.00161	U	0.00158	U	0.00192	U	0.00171	U
Endosulfan II	2.4	4.8	24	102	0.00163	U	0.00159	U	0.00183	U	0.00161	U	0.00158	U	0.00192	U	0.00171	U
Endosulfan sulfate	2.4	4.8	24	1000	0.000679	U	0.000664	U	0.000763	U	0.00067	U	0.000658	U	0.000799	U	0.000711	U
Endrin	0.014	2.2	11	0.06	0.000679	U	0.000664	U	0.000763	U	0.00067	U	0.000658	U	0.000799	U	0.000711	U
Endrin aldehyde	NC	NC	NC	NC	0.00204	U	0.00199	U	0.00229	U	0.00201	U	0.00197	U	0.0024	U	0.00213	U
Endrin ketone	NC	NC	NC	NC	0.00163	U	0.00159	U	0.00183	U	0.00161	U	0.00158	U	0.00192	U	0.00171	U
Heptachlor	0.042	0.42	2.1	0.38	0.000815	U	0.000797	U	0.000916	U	0.000804	U	0.00079	U	0.000959	U	0.000853	U
Heptachlor epoxide	NC	NC	NC	NC	0.00306	U	0.00299	U	0.00343	U	0.00302	U	0.00296	U	0.0036	U	0.0032	U
Lindane	0.1	0.28	1.3	0.1	0.000679	U	0.000664	U	0.000763	U	0.00067	U	0.000658	U	0.000799	U	0.000711	U
Methoxychlor	NC	NC	NC	NC	0.00306	U	0.00299	U	0.00343	U	0.00302	U	0.00296	U	0.0036	U	0.0032	U
Toxaphene	NC	NC	NC	NC	0.0306	U	0.0299	U	0.0343	U	0.0302	U	0.0296	U	0.036	U	0.032	U
trans-Chlordane	NC	NC	NC	NC	0.00204	U	0.00199	U	0.00229	U	0.00201	U	0.00197	U	0.00334		0.00224	
PCBs																		
Aroclor 1016	0.1	1	1	3.2	0.0339	U	0.0329	U	0.038	U	0.0335	U	0.0324	U	0.0406	U	0.0348	U
Aroclor 1221	0.1	1	1	3.2	0.0339	U	0.0329	U	0.038	U	0.0335	U	0.0324	U	0.0406	U	0.0348	U
Aroclor 1232	0.1	1	1	3.2	0.0339	U	0.0329	U	0.038	U	0.0335	U	0.0324	U	0.0406	U	0.0348	U
Aroclor 1242	0.1	1	1	3.2	0.0339	U	0.0329	U	0.038	U	0.0335	U	0.0324	U	0.0406	U	0.0348	U
Aroclor 1248	0.1	1	1	3.2	0.0339	U	0.0329	U	0.038	U	0.0335	U	0.0324	U	0.0406	U	0.0348	U
Aroclor 1254	0.1	1	1	3.2	0.0339	U	0.0329	U	0.038	U	0.0335	U	0.0324	U	0.0406	U	0.0163	J
Aroclor 1260	0.1	1	1	3.2	0.0339	U	0.0329	U	0.038	U	0.0177	J	0.0324	U	0.0406	U	0.0156	J
Aroclor 1262	0.1	1	1	3.2	0.0339	U	0.0329	U	0.038	U	0.0335	U	0.0324	U	0.0406	U	0.0348	U
Aroclor 1268	0.1	1	1	3.2	0.0339	U	0.0329	U	0.038	U	0.0335	U	0.0324	U	0.0406	U	0.0348	U
TOTAL METALS																		
Aluminum, Total	NC	NC	NC	NC	1920		996		1100		1360		1160		3420		2300	
Antimony, Total	NC	NC	NC	NC	0.565	J	3.93	U	4.6	U	3.93	U	3.96	U	4.96	U	4.13	U
Arsenic, Total	13	16	16	16	1.72		1.51		1.62		1.49		1.27		2.36		1.83	
Barium, Total	350	350	400	820	20.7		2.61		6.15		13.2		8.04		24		62.9	
Beryllium, Total	7.2	14	72	47	0.105	J	0.047	J	0.055	J	0.055	J	0.04	J	0.079	J	0.107	J
Cadmium, Total	2.5	2.5	4.3	7.5	0.807	U	0.787	U	0.92	U	0.785	U	0.793	U	0.159	J	0.264	J
Calcium, Total	NC	NC	NC	NC	3070		313		615		1260		339		5600		13300	
Chromium, Total	NC	NC	NC	NC	6.93		2.92		3.5		4.64		3.56		6.49		7.82	
Cobalt, Total	NC	NC	NC	NC	2.58		1.53	J	1.61	J	1.89		1.63		2.31		2.85	
Copper, Total	50	270	270	1720	8.34		1.2		1.68		3.71		4.18		10.2		14.8	
Iron, Total	NC	NC	NC	NC	4580		2660		2820		3210		2930		5060		6000	
Lead, Total	63	400	400	450	22		3.15	J	3.43	J	11		9.2		18.4		44.2	
Magnesium, Total	NC	NC	NC	NC	1800		539		596		862		631		1840		5290	
Manganese, Total	1600	2000	2000	2000	96.1		52.7		62		63		43		122		96.1	
Mercury, Total	0.18	0.81	0.81	0.73	0.081		0.065	U	0.075	U	0.055	J	0.058	J	0.081	U	**0.191**	
Nickel, Total	30	140	310	130	12.1		3.73		3.81		5.54		4.13		4.65		9.9	
Potassium, Total	NC	NC	NC	NC	532		206		255		338		358		280		648	
Selenium, Total	3.9	36	180	4	0.282	J	0.204	J	0.405	J	1.57	U	1.58	U	1.98	U	1.65	U
Silver, Total	2	36	180	8.3	0.807	U	0.787	U	0.92	U	0.785	U	0.793	U	0.992	U	0.826	U
Sodium, Total	NC	NC	NC	NC	82.3	J	58	J	49.2	J	42.2	J	26.3	J	21	J	118	J
Thallium, Total	NC	NC	NC	NC	1.61	U	1.57	U	1.84	U	1.57	U	1.58	U	1.98	U	1.65	U
Vanadium, Total	NC	NC	NC	NC	6.93		3.66		3.84		4.15		4.23		8.52		9.61	
Zinc, Total	109	2200	10000	2480	27.5		12.5		11.4		19.3		9.89		33.8		58.8	
GENERAL CHEMISTRY																		
Chromium, Hexavalent	1	22	110	19	0.835	U	0.824	U	0.958	U	0.826	U	0.818	U	***1.01***	***U***	0.859	U
Cyanide, Total	27	27	27	40	0.98	U	1	U	0.25	J	1	U	0.99	U	1.2	U	1	U
Solids, Total	NC	NC	NC	NC	95.8		97.1		83.5		96.9		97.8		79		93.1	

All analyitcal results for soil in milligrams per kilogram (mg/kg).

Q: Laboratory Qualifier

An empty Q column indicates no laboratory qualifier has been assigned.

U = Not detected at the reported detection limit for the sample.

R1 =reanalyzed

NC = No criteria established for this contaminant

E = Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J = Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater t

I - The lower value for the two columns has been reported due to obvious interference.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

d = For pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentratio

"-" = Analyte not analyzed

UUSCO = NYSDEC's December 2006 Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375).

RSCO = NYSDEC's December 2006 Residential Use Soil Cleanup Objectives (6 NYCRR 375-6)

RRSCO = NYSDEC's December 2006 Restricted Residential Use Soil Cleanup Objectives (6 NYCRR 375-6)

PGWSCO = NYSDEC's December 2006 Protection to Groundwater Soil Cleanup Objectives (6 NYCRR 375-6)

Reporting Limit Exceedes UUSCO

Concentration exceeds UUSCO

Concentration exceeds RSCO & UUSCO

Concentration exceeds RRSCO, RSCO & UUSCO

Concentration exceeds PGWSCO & UUSCO

Concentration exceeds PGWSCO, RSCO & UUSCO

Concentration exceeds PGWSCO, RRSCO, RSCO & UUSCO

Table 1
Soil Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

MATRIXNEWORLD
Engineering Progress

SAMPLE ID:					SB24 (1-4)		SB24 (10-12)		SB25 (1-3)		SB26 (1-3)		SB26 (10-12)		SB27 (1-3)		SB28 (1-3)		SB29 (1-3)		SB29 (10-12)		SB30 (1-3)		BH-08 (8-10)	
LAB ID:	Part 375 Unrestricted Use SCOs	Part 375 Residential SCOs	Part 375 Restricted-Residential SCOs	Part 375 Protection of Groundwater SCOs	L2166661-01		L2166661-02		L2166146-04		L2166146-02		L2166146-03		L2166146-01		L2165829-04		L2165829-02		L2165829-03		L2165829-01		L2213796-01	
COLLECTION DATE:					12/3/2021		12/3/2021		12/2/2021		12/2/2021		12/2/2021		12/2/2021		12/1/2021		12/1/2021		12/1/2021		12/1/2021		3/16/2022	
SAMPLE MATRIX:					Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore	
ANALYTE	mg/kg	mg/kg	mg/kg	mg/kg	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q
VOLATILE ORGANICS																										
1,1,1,2-Tetrachloroethane	NC	NC	NC	NC	0.00075	U	0.0006	U	0.00056	U	0.00068	U	0.00077	U	0.00051	U	0.00061	U	0.00052	U	0.00068	U	0.00054	U	0.00042	U
1,1,1-Trichloroethane	0.68	100	100	NC	0.00075	U	0.0006	U	0.00056	U	0.00068	U	0.00077	U	0.00051	U	0.00061	U	0.00052	U	0.00068	U	0.00054	U	0.00042	U
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.68	0.00075	U	0.0006	U	0.00056	U	0.00068	U	0.00077	U	0.00051	U	0.00061	U	0.00052	U	0.00068	U	0.00054	U	0.00042	U
1,1,2-Trichloroethane	NC	NC	NC	NC	0.0015	U	0.0012	U	0.0011	U	0.0014	U	0.0015	U	0.001	U	0.0012	U	0.001	U	0.0014	U	0.0011	U	0.00084	U
1,1-Dichloroethane	0.27	19	26	NC	0.0015	U	0.0012	U	0.0011	U	0.0014	U	0.0015	U	0.001	U	0.0012	U	0.001	U	0.0014	U	0.0011	U	0.00084	U
1,1-Dichloroethene	0.33	100	100	0.27	0.0015	U	0.0012	U	0.0011	U	0.0014	U	0.0015	U	0.001	U	0.0012	U	0.001	U	0.0014	U	0.0011	U	0.00084	U
1,1-Dichloropropene	NC	NC	NC	0.33	0.00075	U	0.0006	U	0.00056	U	0.00068	U	0.00077	U	0.00051	U	0.00061	U	0.00052	U	0.00068	U	0.00054	U	0.00042	U
1,2,3-Trichlorobenzene	NC	NC	NC	NC	0.003	U	0.0024	U	0.0022	U	0.0027	U	0.0031	U	0.002	U	0.0024	U	0.0021	U	0.0027	U	0.0022	U	0.0017	U
1,2,3-Trichloropropane	NC	NC	NC	NC	0.003	U	0.0024	U	0.0022	U	0.0027	U	0.0031	U	0.002	U	0.0024	U	0.0021	U	0.0027	U	0.0022	U	0.0017	U
1,2,4,5-Tetramethylbenzene	NC	NC	NC	NC	0.003	U	0.0024	U	0.0022	U	0.0027	U	0.0031	U	0.002	U	0.0024	U	0.0021	U	0.0027	U	0.0022	U	0.0017	U
1,2,4-Trichlorobenzene	NC	NC	NC	NC	0.003	U	0.0024	U	0.0022	U	0.0027	U	0.0031	U	0.002	U	0.0024	U	0.0021	U	0.0027	U	0.0022	U	0.0017	U
1,2,4-Trimethylbenzene	3.6	47	52	NC	0.003	U	0.0024	U	0.0022	U	0.0027	U	0.0031	U	0.002	U	0.0024	U	0.0021	U	0.0027	U	0.0022	U	0.0017	U
1,2-Dibromo-3-chloropropane	NC	NC	NC	3.6	0.0045	U	0.0036	U	0.0033	U	0.004	U	0.0046	U	0.003	U	0.0037	U	0.0031	U	0.0041	U	0.0033	U	0.0025	U
1,2-Dibromoethane	NC	NC	NC	NC	0.0015	U	0.0012	U	0.0011	U	0.0014	U	0.0015	U	0.001	U	0.0012	U	0.001	U	0.0014	U	0.0011	U	0.00084	U
1,2-Dichlorobenzene	1.1	100	100	NC	0.003	U	0.0024	U	0.0022	U	0.0027	U	0.0031	U	0.002	U	0.0024	U	0.0021	U	0.0027	U	0.0022	U	0.0017	U
1,2-Dichloroethane	0.02	2.3	3.1	1.1	0.0015	U	0.0012	U	0.0011	U	0.0014	U	0.0015	U	0.001	U	0.0012	U	0.001	U	0.0014	U	0.0011	U	0.00084	U
1,2-Dichloroethene, Total	NC	NC	NC	0.02	0.0015	U	0.0012	U	0.0011	U	0.0014	U	0.0015	U	0.001	U	0.0012	U	0.001	U	0.0014	U	0.0011	U	0.00084	U
1,2-Dichloropropane	NC	NC	NC	NC	0.0015	U	0.0012	U	0.0011	U	0.0014	U	0.0015	U	0.001	U	0.0012	U	0.001	U	0.0014	U	0.0011	U	0.00084	U
1,3,5-Trimethylbenzene	8.4	47	52	NC	0.003	U	0.0024	U	0.0022	U	0.0027	U	0.0031	U	0.002	U	0.0024	U	0.0021	U	0.0027	U	0.0022	U	0.0017	U
1,3-Dichlorobenzene	2.4	17	49	8.4	0.003	U	0.0024	U	0.0022	U	0.0027	U	0.0031	U	0.002	U	0.0024	U	0.0021	U	0.0027	U	0.0022	U	0.0017	U
1,3-Dichloropropane	NC	NC	NC	2.4	0.003	U	0.0024	U	0.0022	U	0.0027	U	0.0031	U	0.002	U	0.0024	U	0.0021	U	0.0027	U	0.0022	U	0.0017	U
1,3-Dichloropropene, Total	NC	NC	NC	NC	0.00075	U	0.0006	U	0.00056	U	0.00068	U	0.00077	U	0.00051	U	0.00061	U	0.00052	U	0.00068	U	0.00054	U	0.00042	U
1,4-Dichlorobenzene	1.8	9.8	13	NC	0.003	U	0.0024	U	0.0022	U	0.0027	U	0.0031	U	0.002	U	0.0024	U	0.0021	U	0.0027	U	0.0022	U	0.0017	U
1,4-Dioxane	0.1	9.8	13	1.8	***0.12***	***U***	0.097	U	0.089	U	***0.11***	***U***	***0.12***	***U***	0.081	U	0.098	U	0.083	U	***0.11***	***U***	0.087	U	0.068	U
2,2-Dichloropropane	NC	NC	NC	0.1	0.003	U	0.0024	U	0.0022	U	0.0027	U	0.0031	U	0.002	U	0.0024	U	0.0021	U	0.0027	U	0.0022	U	0.0017	U
2-Butanone	0.12	100	100	NC	0.015	U	0.012	U	0.011	U	0.014	U	0.015	U	0.01	U	0.012	U	0.01	U	0.014	U	0.011	U	0.0029	J
2-Hexanone	NC	NC	NC	0.12	0.015	U	0.012	U	0.011	U	0.014	U	0.015	U	0.01	U	0.012	U	0.01	U	0.014	U	0.011	U	0.0084	U
4-Methyl-2-pentanone	NC	NC	NC	NC	0.015	U	0.012	U	0.011	U	0.014	U	0.015	U	0.01	U	0.012	U	0.01	U	0.014	U	0.011	U	0.0084	U
Acetone	0.05	100	100	NC	0.015	U	0.012		0.011	U	0.014	U	0.015	U	0.01	U	0.012	U	0.01	U	0.014	U	0.011	U	0.026	
Acrylonitrile	NC	NC	NC	0.05	0.006	U	0.0048	U	0.0044	U	0.0054	U	0.0062	U	0.0041	U	0.0049	U	0.0042	U	0.0054	U	0.0044	U	0.0034	U
Benzene	0.06	2.9	4.8	NC	0.00075	U	0.0006	U	0.00056	U	0.00068	U	0.00077	U	0.00051	U	0.00061	U	0.0003	J	0.00068	U	0.00054	U	0.00017	J
Bromobenzene	NC	NC	NC	0.06	0.003	U	0.0024	U	0.0022	U	0.0027	U	0.0031	U	0.002	U	0.0024	U	0.0021	U	0.0027	U	0.0022	U	0.0017	U
Bromochloromethane	NC	NC	NC	NC	0.003	U	0.0024	U	0.0022	U	0.0027	U	0.0031	U	0.002	U	0.0024	U	0.0021	U	0.0027	U	0.0022	U	0.0017	U
Bromodichloromethane	NC	NC	NC	NC	0.00075	U	0.0006	U	0.00056	U	0.00068	U	0.00077	U	0.00051	U	0.00061	U	0.00052	U	0.00068	U	0.00054	U	0.00042	U
Bromoform	NC	NC	NC	NC	0.006	U	0.0048	U	0.0044	U	0.0054	U	0.0062	U	0.0041	U	0.0049	U	0.0042	U	0.0054	U	0.0044	U	0.0034	U
Bromomethane	NC	NC	NC	NC	0.003	U	0.0024	U	0.0022	U	0.0027	U	0.0031	U	0.002	U	0.0024	U	0.0021	U	0.0027	U	0.0022	U	0.0017	U
Carbon disulfide	NC	NC	NC	NC	0.015	U	0.012	U	0.011	U	0.014	U	0.015	U	0.01	U	0.012	U	0.01	U	0.014	U	0.011	U	0.0096	
Carbon tetrachloride	0.76	1.4	2.4	NC	0.0015	U	0.0012	U	0.0011	U	0.0014	U	0.0015	U	0.001	U	0.0012	U	0.001	U	0.0014	U	0.0011	U	0.00084	U
Chlorobenzene	1.1	100	100	0.76	0.00075	U	0.0006	U	0.00056	U	0.00068	U	0.00077	U	0.00051	U	0.00061	U	0.00052	U	0.00068	U	0.00054	U	0.00042	U
Chloroethane	NC	NC	NC	1.1	0.003	U	0.0024	U	0.0022	U	0.0027	U	0.0031	U	0.002	U	0.0024	U	0.0021	U	0.0027	U	0.0022	U	0.0017	U
Chloroform	0.37	10	49	NC	0.0023	U	0.0018	U	0.00034	J	0.00042	J	0.00046	J	0.00028	J	0.00035	J	0.00022	J	0.00027	J	0.00026	J	0.00091	J
Chloromethane	NC	NC	NC	0.37	0.006	U	0.0048	U	0.0044	U	0.0054	U	0.0062	U	0.0041	U	0.0049	U	0.0042	U	0.0054	U	0.0044	U	0.0034	U
cis-1,2-Dichloroethene	0.25	59	100	NC	0.0015	U	0.0012	U	0.0011	U	0.0014	U	0.0015	U	0.001	U	0.0012	U	0.001	U	0.0014	U	0.0011	U	0.00084	U
cis-1,3-Dichloropropene	NC	NC	NC	0.25	0.00075	U	0.0006	U	0.00056	U	0.00068	U	0.00077	U	0.00051	U	0.00061	U	0.00052	U	0.00068	U	0.00054	U	0.00042	U
Dibromochloromethane	NC	NC	NC	NC	0.0015	U	0.0012	U	0.0011	U	0.0014	U	0.0015	U	0.001	U	0.0012	U	0.001	U	0.0014	U	0.0011	U	0.00084	U
Dibromomethane	NC	NC	NC	NC	0.003	U	0.0024	U	0.0022	U	0.0027	U	0.0031	U	0.002	U	0.0024	U	0.0021	U	0.0027	U	0.0022	U	0.0017	U
Dichlorodifluoromethane	NC	NC	NC	NC	0.015	U	0.012	U	0.011	U	0.014	U	0.015	U	0.01	U	0.012	U	0.01	U	0.014	U	0.011	U	0.0084	U
Ethyl ether	NC	NC	NC	NC	0.003	U	0.0024	U	0.0022	U	0.0027	U	0.0031	U	0.002	U	0.0024	U	0.0021	U	0.0027	U	0.0022	U	0.0017	U
Ethylbenzene	1	30	41	NC	0.0015	U	0.0012	U	0.0011	U	0.0014	U	0.0015	U	0.001	U	0.0012	U	0.001	U	0.0014	U	0.0011	U	0.00084	U
Hexachlorobutadiene	NC	NC	NC	1	0.006	U	0.0048	U	0.0044	U	0.0054	U	0.0062	U	0.0041	U	0.0049	U	0.0042	U	0.0054	U	0.0044	U	0.0034	U
Isopropylbenzene	NC	NC	NC	NC	0.0015	U	0.0012	U	0.0011	U	0.0014	U	0.0015	U	0.001	U	0.0012	U	0.001	U	0.0014	U	0.0011	U	0.00084	U
Methyl tert butyl ether	0.93	62	100	NC	0.003	U	0.0024	U	0.0022	U	0.0027	U	0.0031	U	0.002	U	0.0024	U	0.0021	U	0.0027	U	0.0022	U	0.0017	U
Methylene chloride	0.05	51	100	0.93	0.0075	U	0.006	U	0.0056	U	0.0068	U	0.0077	U	0.0051	U	0.0061	U	0.0052	U	0.0068	U	0.0054	U	0.0042	U
n-Butylbenzene	12	100	100	0.05	0.0015	U	0.0012	U	0.0011	U	0.0014	U	0.0015	U	0.001	U	0.0012	U	0.001	U	0.0014	U	0.0011	U	0.00084	U
n-Propylbenzene	3.9	100	100	12	0.0015	U	0.0012	U	0.0011	U	0.0014	U	0.0015	U	0.001	U	0.0012	U	0.001	U	0.0014	U	0.0011	U	0.00084	U
Naphthalene	12	100	100	3.9	0.006	U	0.0014	J	0.0044	U	0.0054	U	0.0062	U	0.0041	U	0.0049	U	0.0042	U	0.0054	U	0.0044	U	0.0022	J
o-Chlorotoluene	NC	NC	NC	12	0.003	U	0.0024	U	0.0022	U	0.0027	U	0.0031	U	0.002	U	0.0024	U	0.0021	U	0.0027	U	0.0022	U	0.0017	U
o-Xylene	NC	NC	NC	NC	0.0015	U	0.0012	U	0.0011	U	0.0014	U	0.0015	U	0.001	U	0.0012	U	0.001	U	0.0014	U	0.0011	U	0.00084	U
p-Chlorotoluene	NC	NC	NC	NC	0.003	U	0.0024	U	0.0022	U	0.0027	U	0.0031	U	0.002	U	0.0024	U	0.0021	U	0.0027	U	0.0022	U	0.0017	U
p-Diethylbenzene	NC	NC	NC	NC	0.003	U	0.00036	J	0.0022	U	0.0027	U	0.0031	U	0.002	U	0.0024	U	0.0021	U	0.0027	U	0.0022	U	0.0017	U
p-Ethyltoluene	NC	NC	NC	NC	0.003	U	0.0024	U	0.0022	U	0.0027	U	0.0031	U	0.002	U	0.0024	U	0.0021	U	0.0027	U	0.0022	U	0.0017	U
p-Isopropyltoluene	NC	NC	NC	NC	0.0015	U	0.0012	U	0.0011	U	0.0014	U	0.0015	U	0.001	U	0.0012	U	0.001	U	0.0014	U	0.0011	U	0.00084	U
p/m-Xylene	NC	NC	NC	NC	0.003	U	0.0024	U	0.0022	U	0.0027	U	0.0031	U	0.002	U	0.0024	U	0.0021	U	0.0027	U	0.0022	U	0.0017	U
sec-Butylbenzene	11	100	100	NC	0.0015	U	0.0012	U	0.0011	U	0.0014	U	0.0015	U	0.001	U	0.0012	U	0.001	U	0.0014	U	0.0011	U	0.00048	J
Styrene	NC	NC	NC	11	0.0015	U	0.0012	U	0.0011	U	0.0014	U	0.0015	U	0.001	U	0.0012	U	0.001	U	0.0014	U	0.0011	U	0.00084	U
tert-Butylbenzene	5.9	100	100	NC	0.003	U	0.0024	U	0.0022	U	0.0027	U	0.0031	U	0.002	U	0.0024	U	0.0021	U	0.0027	U	0.0022	U	0.0017	U
Tetrachloroethene	1.3	5.5	19	5.9	0.00075	U	0.0006	U	0.00056	U	0.00068	U	0.00077	U	0.00051	U	0.00061	U	0.00052	U	0.00068	U	0.00054	U	0.00042	U
Toluene	0.7	100	100	1.3	0.0015	U	0.0012	U	0.0011	U	0.0014	U	0.0015	U	0.001	U	0.0012	U	0.001	U	0.0014	U	0.0011	U	0.00084	U
trans-1,2-Dichloroethene	0.19	100	100	0.7	0.0023	U	0.0018	U	0.0017	U	0.002	U	0.0023	U	0.0015	U	0.0018	U	0.0016	U	0.002	U	0.0016	U	0.0013	U
trans-1,3-Dichloropropene	NC	NC	NC	0.19	0.0015	U	0.0012	U	0.0011	U	0.0014	U	0.0015	U	0.001	U	0.0012	U	0.001	U	0.0014	U	0.0011	U	0.00084	U
trans-1,4-Dichloro-2-butene	NC	NC	NC	NC	0.0075	U	0.006	U	0.0056	U	0.0068	U	0.0077	U	0.0051	U	0.0061	U	0.0052	U	0.0068	U	0.0054	U	0.0042	U
Trichloroethene	0.47	10	21	NC	0.00075	U	0.0006	U	0.00056	U	0.00068	U	0.00077	U	0.00051	U	0.00061	U	0.00052	U	0.00068	U	0.00054	U	0.00042	U
Trichlorofluoromethane	NC	NC	NC	0.47	0.006	U	0.0048	U	0.0044	U	0.0054	U	0.0062	U	0.0041	U	0.0049	U	0.0042	U	0.0054	U	0.0044	U	0.0034	U
Vinyl acetate	NC	NC	NC	NC	0.015	U	0.012	U	0.011	U	0.014	U	0.015	U	0.01	U	0.012	U	0.01	U	0.014	U	0.011	U	0.0084	U
Vinyl chloride	0.02	0.21	0.9	NC	0.0015	U	0.0012	U	0.0011	U	0.0014	U	0.0015	U	0.001	U	0.0012	U	0.001	U	0.0014	U	0.0011	U	0.00084	U
Xylenes, Total	0.26	100	100	0.02	0.0015	U	0.0012	U	0.0011	U	0.0014	U	0.0015	U	0.001	U	0.0012	U	0.001	U	0.0014	U	0.0011	U	0.00084	U
Total TIC Compounds	NC	NC	NC	NC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.068	J

All analyitcal results for soil in milligrams per kilogram (mg/kg).

Q: Laboratory Qualifier

An empty Q column indicates no laboratory qualifier has been assigned.

U = Not detected at the reported detection limit for the sample.

R1 =reanalyzed

NC = No criteria established for this contaminant

E = Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

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Reporting Limit Exceedes UUSCO

Concentration exceeds UUSCO

Concentration exceeds RSCO & UUSCO

Concentration exceeds RRSCO, RSCO & UUSCO

Concentration exceeds PGWSCO & UUSCO

Concentration exceeds PGWSCO, RSCO & UUSCO

Concentration exceeds PGWSCO, RRSCO, RSCO & UUSCO

Table 1
Soil Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

MATRIXNEWORLD
Engineering Progress

SAMPLE ID:	Part 375 Unrestricted Use SCOs	Part 375 Residential SCOs	Part 375 Restricted-Residential SCOs	Part 375 Protection of Groundwater SCOs	SB24 (1-4)		SB24 (10-12)		SB25 (1-3)		SB26 (1-3)		SB26 (10-12)		SB27 (1-3)		SB28 (1-3)		SB29 (1-3)		SB29 (10-12)		SB30 (1-3)		BH-08 (8-10)	
LAB ID:					L2166661-01		L2166661-02		L2166146-04		L2166146-02		L2166146-03		L2166146-01		L2165829-04		L2165829-02		L2165829-03		L2165829-01		L2213796-01	
COLLECTION DATE:					12/3/2021		12/3/2021		12/2/2021		12/2/2021		12/2/2021		12/2/2021		12/1/2021		12/1/2021		12/1/2021		12/1/2021		3/16/2022	
SAMPLE MATRIX:					Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore	
ANALYTE	mg/kg	mg/kg	mg/kg	mg/kg	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q
SEMI-VOLATILE ORGANICS																										
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
1,2,4-Trichlorobenzene	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
1,2-Dichlorobenzene	1.1	100	100	1.1	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
1,3-Dichlorobenzene	2.4	17	49	2.4	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
1,4-Dichlorobenzene	1.8	9.8	13	1.8	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
1,4-Dioxane	0.1	9.8	13	0.1	0.027	U	0.028	U	0.027	U	0.027	U	0.026	U	0.027	U	0.028	U	0.027	U	0.027	U	0.026	U	0.031	U
2,4,5-Trichlorophenol	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
2,4,6-Trichlorophenol	NC	NC	NC	NC	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U	0.12	U
2,4-Dichlorophenol	NC	NC	NC	NC	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.17	U	0.16	U	0.16	U	0.15	U	0.18	U
2,4-Dimethylphenol	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
2,4-Dinitrophenol	NC	NC	NC	NC	0.86	U	0.88	U	0.86	U	0.87	U	0.84	U	0.87	U	0.9	U	0.85	U	0.87	U	0.82	U	0.99	U
2,4-Dinitrotoluene	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
2,6-Dinitrotoluene	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
2-Chloronaphthalene	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
2-Chlorophenol	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
2-Methylnaphthalene	NC	NC	NC	NC	0.21	U	0.22	U	0.21	U	0.22	U	0.21	U	0.22	U	0.032	J	0.21	U	0.22	U	0.2	U	0.25	U
2-Methylphenol	0.33	100	100	0.33	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
2-Nitroaniline	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
2-Nitrophenol	NC	NC	NC	NC	0.39	U	0.4	U	0.38	U	0.39	U	0.38	U	0.39	U	0.41	U	0.38	U	0.39	U	0.37	U	0.44	U
3,3'-Dichlorobenzidine	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
3-Methylphenol/4-Methylphenol	0.33	34	100	0.33	0.26	U	0.26	U	0.26	U	0.26	U	0.25	U	0.26	U	0.27	U	0.26	U	0.26	U	0.24	U	0.3	U
3-Nitroaniline	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
4,6-Dinitro-o-cresol	NC	NC	NC	NC	0.46	U	0.48	U	0.46	U	0.47	U	0.45	U	0.47	U	0.49	U	0.46	U	0.47	U	0.44	U	0.54	U
4-Bromophenyl phenyl ether	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
4-Chloroaniline	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
4-Nitroaniline	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
4-Nitrophenol	NC	NC	NC	NC	0.25	U	0.26	U	0.25	U	0.25	U	0.24	U	0.25	U	0.26	U	0.25	U	0.25	U	0.24	U	0.29	U
Acenaphthene	20	100	100	98	0.14	U	0.051	J	0.14	U	0.033	J	0.14	U	0.14	U	0.019	J	0.14	U	0.14	U	0.14	U	0.044	J
Acenaphthylene	100	100	100	107	0.14	U	0.14	J	0.14	U	0.038	J	0.14	U	0.14	U	0.046	J	0.14	U	0.14	U	0.14	U	0.053	J
Acetophenone	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
Anthracene	100	100	100	1000	0.044	J	0.4		0.054	J	0.097	J	0.1	U	0.077	J	0.11		0.074	J	0.11	U	0.1	U	0.072	J
Benzo(a)anthracene	1	1	1	1	0.16		0.85		0.25		0.29		0.1	U	0.28		0.33		0.22		0.11	U	0.071	J	0.16	
Benzo(a)pyrene	1	1	1	22	0.15		0.71		0.24		0.27		0.14	U	0.27		0.29		0.2		0.14	U	0.063	J	0.19	
Benzo(b)fluoranthene	1	1	1	1.7	0.19		0.86		0.32		0.33		0.1	U	0.33		0.36		0.26		0.11	U	0.085	J	0.2	
Benzo(ghi)perylene	100	100	100	1000	0.11	J	0.4		0.17		0.18		0.14	U	0.18		0.19		0.13	J	0.14	U	0.046	J	0.11	J
Benzo(k)fluoranthene	0.8	1	3.9	1.7	0.057	J	0.25		0.094	J	0.13		0.1	U	0.12		0.14		0.08	J	0.11	U	0.1	U	0.065	J
Benzoic Acid	NC	NC	NC	NC	0.58	U	0.59	U	0.58	U	0.59	U	0.57	U	0.58	U	0.61	U	0.58	U	0.59	U	0.55	U	0.67	U
Benzyl Alcohol	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
Biphenyl	NC	NC	NC	NC	0.41	U	0.42	U	0.41	U	0.41	U	0.4	U	0.41	U	0.43	U	0.4	U	0.41	U	0.39	U	0.47	U
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	0.19	U	0.2	U	0.19	U	0.2	U	0.19	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U	0.22	U
Bis(2-chloroethyl)ether	NC	NC	NC	NC	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.17	U	0.16	U	0.16	U	0.15	U	0.18	U
Bis(2-chloroisopropyl)ether	NC	NC	NC	NC	0.21	U	0.22	U	0.21	U	0.22	U	0.21	U	0.22	U	0.22	U	0.21	U	0.22	U	0.2	U	0.25	U
Bis(2-ethylhexyl)phthalate	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
Butyl benzyl phthalate	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
Carbazole	NC	NC	NC	NC	0.18	U	0.032	J	0.18	U	0.036	J	0.17	U	0.019	J	0.023	J	0.021	J	0.18	U	0.17	U	0.02	J
Chrysene	1	1	3.9	1	0.14		0.76		0.24		0.27		0.1	U	0.28		0.33		0.21		0.11	U	0.064	J	0.18	
Di-n-butylphthalate	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
Di-n-octylphthalate	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
Dibenzo(a,h)anthracene	0.33	0.33	0.33	1000	0.021	J	0.1	J	0.039	J	0.043	J	0.1	U	0.037	J	0.053	J	0.033	J	0.11	U	0.1	U	0.025	J
Dibenzofuran	7	14	59	210	0.18	U	0.04	J	0.18	U	0.021	J	0.17	U	0.18	U	0.031	J	0.18	U	0.18	U	0.17	U	0.024	J
Diethyl phthalate	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
Dimethyl phthalate	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
Fluoranthene	100	100	100	1000	0.32		1.6		0.42		0.59		0.1	U	0.56		0.55		0.42		0.022	J	0.12		0.32	
Fluorene	30	100	100	386	0.18	U	0.094	J	0.18	U	0.037	J	0.17	U	0.18	U	0.024	J	0.02	J	0.18	U	0.17	U	0.028	J
Hexachlorobenzene	0.33	0.33	1.2	3.2	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U	0.12	U
Hexachlorobutadiene	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
Hexachlorocyclopentadiene	NC	NC	NC	NC	0.51	U	0.52	U	0.51	U	0.52	U	0.5	U	0.52	U	0.54	U	0.51	U	0.52	U	0.49	U	0.59	U
Hexachloroethane	NC	NC	NC	NC	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.16	U
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5	8.2	0.11	J	0.45		0.18		0.19		0.14	U	0.18		0.21		0.14		0.14	U	0.05	J	0.12	J
Isophorone	NC	NC	NC	NC	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.17	U	0.16	U	0.16	U	0.15	U	0.18	U
n-Nitrosodi-n-propylamine	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
Naphthalene	12	100	100	12	0.18	U	0.053	J	0.18	U	0.18	U	0.17	U	0.18	U	0.09	J	0.18	U	0.18	U	0.17	U	0.038	J
NDPA/DPA	NC	NC	NC	NC	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.16	U
Nitrobenzene	NC	NC	NC	NC	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.17	U	0.16	U	0.16	U	0.15	U	0.18	U
p-Chloro-m-cresol	NC	NC	NC	NC	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
Pentachlorophenol	0.8	2.4	6.7	0.8	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.16	U
Phenanthrene	100	100	100	1000	0.16		0.96		0.17		0.36		0.1	U	0.25		0.27		0.28		0.11	U	0.051	J	0.22	
Phenol	0.33	100	100	0.33	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U	0.21	U
Pyrene	100	100	100	1000	0.29		1.4		0.4		0.53		0.1	U	0.5		0.52		0.38		0.019	J	0.11		0.32	
Total TIC Compounds	NC	NC	NC	NC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.05	J

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Reporting Limit Exceeds UUSCO
Concentration exceeds UUSCO
Concentration exceeds RSCO & UUSCO
Concentration exceeds RRSCO, RSCO & UUSCO
Concentration exceeds PGWSCO & UUSCO
Concentration exceeds PGWSCO, RSCO & UUSCO
Concentration exceeds PGWSCO, RRSCO, RSCO & UUSCO

Table 1
Soil Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

MATRIXNEWORLD
Engineering Progress

SAMPLE ID:					SB24 (1-4)		SB24 (10-12)		SB25 (1-3)		SB26 (1-3)		SB26 (10-12)		SB27 (1-3)		SB28 (1-3)		SB29 (1-3)		SB29 (10-12)		SB30 (1-3)		BH-08 (8-10)	
LAB ID:	Part 375 Unrestricted Use SCOs	Part 375 Residential SCOs	Part 375 Restricted-Residential SCOs	Part 375 Protection of Groundwater SCOs	L2166661-01		L2166661-02		L2166146-04		L2166146-02		L2166146-03		L2166146-01		L2165829-04		L2165829-02		L2165829-03		L2165829-01		L2213796-01	
COLLECTION DATE:					12/3/2021		12/3/2021		12/2/2021		12/2/2021		12/2/2021		12/2/2021		12/1/2021		12/1/2021		12/1/2021		12/1/2021		3/16/2022	
SAMPLE MATRIX:					Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore		Soil/Terracore	
ANALYTE	mg/kg	mg/kg	mg/kg	mg/kg	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q
CHLORINATED HERBICIDES BY GC																										
2,4,5-T	NC	NC	NC	NC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	3.8	58	100	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-D	NC	NC	NC	NC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PETROLEUM HYDROCARBONS																										
TPH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	537	
PESTICIDES																										
4,4'-DDD	0.0033	2.6	13	14	0.00171	U	0.00172	U	0.0017	U	0.00166	U	0.00167	U	0.00174	U	0.00237		0.00097	J	0.00169	U	0.00166	U	***0.0996***	***U***
4,4'-DDE	0.0033	1.8	8.9	17	**0.00372**		0.00172	U	0.00227		0.00166	U	0.00167	U	0.00228		0.00175	U	0.00104	J	0.00169	U	0.000443	J	***0.0996***	***U***
4,4'-DDT	0.0033	1.7	7.9	136	**0.00634**		0.00323	U	0.00318	U	0.00312	U	0.00313	U	0.00195	JP	0.00328	U	0.00313	U	0.00317	U	0.0031	U	***0.187***	***U***
Aldrin	0.005	0.019	0.097	0.19	0.00171	U	0.00172	U	0.0017	U	0.00166	U	0.00167	U	0.00174	U	0.00175	U	0.00167	U	0.00169	U	0.00166	U	***0.0996***	***U***
Alpha-BHC	0.02	0.097	0.48	0.02	0.000711	U	0.000718	U	0.000707	U	0.000693	U	0.000695	U	0.000727	U	0.000728	U	0.000696	U	0.000706	U	0.00069	U	***0.0415***	***U***
Beta-BHC	0.036	0.072	0.36	0.09	0.00171	U	0.00172	U	0.0017	U	0.00166	U	0.00167	U	0.00174	U	0.00175	U	0.00167	U	0.00169	U	0.00166	U	***0.0996***	***U***
Chlordane	NC	NC	NC	NC	0.0142	U	0.0144	U	0.0141	U	0.0138	U	0.0139	U	0.0145	U	0.0146	U	0.0139	U	0.0141	U	0.0138	U	0.83	U
cis-Chlordane	0.094	0.91	4.2	2.9	0.00225	IP	0.00215	U	0.00127	J	0.000765	J	0.00208	U	0.00123	JP	0.00218	U	0.000705	JP	0.00212	U	0.000683	JP	***0.124***	***U***
Delta-BHC	0.04	100	100	0.25	0.00171	U	0.00172	U	0.0017	U	0.00166	U	0.00167	U	0.00174	U	0.00175	U	0.00167	U	0.00169	U	0.00166	U	***0.0996***	***U***
Dieldrin	0.005	0.039	0.2	0.1	0.00138		0.00108	U	**0.00669**	**P**	0.00104	U	0.00104	U	0.00109	U	0.00109	U	0.00104	U	0.00106	U	0.00103	U	***0.0623***	***U***
Endosulfan I	2.4	4.8	24	102	0.00171	U	0.00172	U	0.0017	U	0.00166	U	0.00167	U	0.00174	U	0.00175	U	0.00167	U	0.00169	U	0.00166	U	0.0996	U
Endosulfan II	2.4	4.8	24	102	0.00171	U	0.00172	U	0.0017	U	0.00166	U	0.00167	U	0.00174	U	0.00175	U	0.00167	U	0.00169	U	0.00166	U	0.0996	U
Endosulfan sulfate	2.4	4.8	24	1000	0.000711	U	0.000718	U	0.000707	U	0.000693	U	0.000695	U	0.000727	U	0.000728	U	0.000696	U	0.000706	U	0.00069	U	0.0415	U
Endrin	0.014	2.2	11	0.06	0.000711	U	0.000718	U	0.000707	U	0.000693	U	0.000695	U	0.000727	U	0.000728	U	0.000696	U	0.000706	U	0.00069	U	***0.0415***	***U***
Endrin aldehyde	NC	NC	NC	NC	0.00213	U	0.00215	U	0.00212	U	0.00208	U	0.00208	U	0.00218	U	0.00218	U	0.00209	U	0.00212	U	0.00207	U	0.124	U
Endrin ketone	NC	NC	NC	NC	0.00171	U	0.00172	U	0.0017	U	0.00166	U	0.00167	U	0.00174	U	0.00175	U	0.00167	U	0.00169	U	0.00166	U	0.0996	U
Heptachlor	0.042	0.42	2.1	0.38	0.000854	U	0.000861	U	0.000849	U	0.000831	U	0.000834	U	0.000872	U	0.000874	U	0.000835	U	0.000847	U	0.000828	U	***0.0498***	***U***
Heptachlor epoxide	NC	NC	NC	NC	0.0032	U	0.00323	U	0.00318	U	0.00312	U	0.00313	U	0.00327	U	0.00328	U	0.00313	U	0.00317	U	0.0031	U	0.187	U
Lindane	0.1	0.28	1.3	0.1	0.000711	U	0.000718	U	0.000707	U	0.000693	U	0.000695	U	0.000727	U	0.000728	U	0.000696	U	0.000706	U	0.00069	U	0.0415	U
Methoxychlor	NC	NC	NC	NC	0.0032	U	0.00323	U	0.00318	U	0.00312	U	0.00313	U	0.00327	U	0.00328	U	0.00313	U	0.00317	U	0.0031	U	0.187	U
Toxaphene	NC	NC	NC	NC	0.032	U	0.0323	U	0.0318	U	0.0312	U	0.0313	U	0.0327	U	0.0328	U	0.0313	U	0.0317	U	0.031	U	1.87	U
trans-Chlordane	NC	NC	NC	NC	0.00277		0.00215	U	0.00223	P	0.00253	IP	0.00208	U	0.000932	JIP	0.00218	U	0.000693	JIP	0.00212	U	0.00207	U	0.124	U
PCBs																										
Aroclor 1016	0.1	1	1	3.2	0.0341	U	0.0368	U	0.0358	U	0.0356	U	0.0334	U	0.0345	U	***0.185***	***U***	0.0354	U	0.0361	U	0.0335	U	0.0406	U
Aroclor 1221	0.1	1	1	3.2	0.0341	U	0.0368	U	0.0358	U	0.0356	U	0.0334	U	0.0345	U	***0.185***	***U***	0.0354	U	0.0361	U	0.0335	U	0.0406	U
Aroclor 1232	0.1	1	1	3.2	0.0341	U	0.0368	U	0.0358	U	0.0356	U	0.0334	U	0.0345	U	***0.185***	***U***	0.0354	U	0.0361	U	0.0335	U	0.0406	U
Aroclor 1242	0.1	1	1	3.2	0.0341	U	0.0368	U	0.0358	U	0.0356	U	0.0334	U	0.0345	U	***0.185***	***U***	0.0354	U	0.0361	U	0.0335	U	0.0361	J
Aroclor 1248	0.1	1	1	3.2	0.0341	U	0.0368	U	0.0358	U	0.0356	U	0.0334	U	0.0345	U	***0.185***	***U***	0.0354	U	0.0361	U	0.0335	U	0.0406	U
Aroclor 1254	0.1	1	1	3.2	0.00432	J	0.0368	U	0.0358	U	0.0225	JP	0.0334	U	0.013	J	**1.74**		0.0128	J	0.0361	U	0.0335	U	0.0316	J
Aroclor 1260	0.1	1	1	3.2	0.0341	U	0.0368	U	0.0838		0.0132	J	0.0334	U	0.00856	J	***0.185***	***U***	0.00665	J	0.0361	U	0.0335	U	0.0129	J
Aroclor 1262	0.1	1	1	3.2	0.0341	U	0.0368	U	0.0358	U	0.0356	U	0.0334	U	0.0345	U	***0.185***	***U***	0.0354	U	0.0361	U	0.0335	U	0.0406	U
Aroclor 1268	0.1	1	1	3.2	0.0341	U	0.0368	U	0.0358	U	0.0356	U	0.0334	U	0.0345	U	***0.185***	***U***	0.0354	U	0.0361	U	0.0335	U	0.0406	U
TOTAL METALS																										
Aluminum, Total	NC	NC	NC	NC	2420		2370		4880		3640		1540		3110		5810		4400		969		1890		8940	
Antimony, Total	NC	NC	NC	NC	4.23	U	4.38	U	4.21	U	4.3	U	4.04	U	4.32	U	4.48	U	4.32	U	4.27	U	4.07	U	4.92	U
Arsenic, Total	13	16	16	16	0.719	J	2.86		3.08		2.24		1.56		3.16		2.13		1.84		1.13		2.36		2.18	
Barium, Total	350	350	400	820	21.1		10.5		84.6		57.9		13		50.9		129		73.4		8.56		25.2		107	
Beryllium, Total	7.2	14	72	47	0.068	J	0.096	J	0.27	J	0.172	J	0.073	J	0.173	J	0.296	J	0.224	J	0.043	J	0.09	J	0.394	J
Cadmium, Total	2.5	2.5	4.3	7.5	0.135	J	0.149	J	0.506	J	0.335	J	0.113	J	0.294	J	0.493	J	0.337	J	0.854	U	0.187	J	1.11	
Calcium, Total	NC	NC	NC	NC	1760		9980		11000		7090		3810		5410		11500		23400		26400		4110		10900	
Chromium, Total	NC	NC	NC	NC	5.82		13.6		16.6		11.2		4.59		10.6		20		13.9		6.89		6.73		32.8	
Cobalt, Total	NC	NC	NC	NC	2.96		3.26		8.9		5.68		2.23		4.35		10.3		7		1.29	J	3.01		11.8	
Copper, Total	50	270	270	1720	13.3		**74.2**		32.8		21.1		3.96		15.1		24.4		19.4		2.24		8.04		**69.8**	
Iron, Total	NC	NC	NC	NC	6400		6530		12300		8940		4300		7940		14100		10700		2930		5870		19200	
Lead, Total	63	400	400	450	12.7		16.2		**113**		59.2		12.3		45.3		55.8		34.9		2.88	J	22.1		**69.5**	
Magnesium, Total	NC	NC	NC	NC	1530		4790		10500		5060		1520		3260		12300		7070		13400		2250		8510	
Manganese, Total	1600	2000	2000	2000	58.5		103		242		143		69.2		167		232		209		36.1		89.8		254	
Mercury, Total	0.18	0.81	0.81	0.73	0.068	U	**0.268**		**0.199**		**0.212**		0.084		0.167		**0.276**		**0.181**		0.075	U	0.108		**0.268**	
Nickel, Total	30	140	310	130	5.76		7.79		**86.4**		**38.8**		10.4		21.6		**99**		**57.8**		4.73		12.6		**32.3**	
Potassium, Total	NC	NC	NC	NC	1440		392		1830		1320		420		1050		2590		1950		277		645		3140	
Selenium, Total	3.9	36	180	4	1.69	U	0.377	J	1.68	U	1.72	U	1.62	U	1.73	U	1.79	U	0.268	J	0.239	J	1.63	U	0.305	J
Silver, Total	2	36	180	8.3	0.846	U	0.49	J	0.354	J	0.86	U	0.809	U	0.268	J	0.466	J	0.864	U	0.854	U	0.813	U	1.2	
Sodium, Total	NC	NC	NC	NC	73.6	J	104	J	424		143	J	89.1	J	122	J	142	J	175		212		70.8	J	234	
Thallium, Total	NC	NC	NC	NC	1.69	U	1.75	U	1.68	U	1.72	U	1.62	U	1.73	U	1.79	U	1.73	U	1.71	U	1.63	U	1.97	U
Vanadium, Total	NC	NC	NC	NC	7.39		10.8		16.3		11.3		5.6		11.3		18.2		14		5.36		7.45		40.7	
Zinc, Total	109	2200	10000	2480	19.5		20.9		96.1		58.6		14.9		46.5		69.3		44.9		7.71		26.5		91.4	
GENERAL CHEMISTRY																										
Chromium, Hexavalent	1	22	110	19	0.859	U	0.897	U	0.882	U	0.881	U	0.844	U	0.88	U	0.916	U	0.87	U	0.874	U	0.837	U	***1.01***	***U***
Cyanide, Total	27	27	27	40	1	U	1.1	U	1	U	1.1	U	0.98	U	1	U	0.3	J	0.87	J	1	U	0.97	U	1.2	U
Solids, Total	NC	NC	NC	NC	93.1		89.2		90.7		90.8		94.8		90.9		87.3		91.9		91.5		95.6		79.4	

All analyitcal results for soil in milligrams per kilogram (mg/kg).

Q: Laboratory Qualifier

An empty Q column indicates no laboratory qualifier has been assigned.

U = Not detected at the reported detection limit for the sample.

R1 =reanalyzed

NC = No criteria established for this contaminant

E = Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J = Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater t

I - The lower value for the two columns has been reported due to obvious interference.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

d = For pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentratio

"-" = Analyte not analyzed

UUSCO = NYSDEC's December 2006 Unrestricted Use Soil Cleanup Objectives (6 NYCRR Part 375).

RSCO = NYSDEC's December 2006 Residential Use Soil Cleanup Objectives (6 NYCRR 375-6)

RRSCO = NYSDEC's December 2006 Restricted Residential Use Soil Cleanup Objectives (6 NYCRR 375-6)

PGWSCO = NYSDEC's December 2006 Protection to Groundwater Soil Cleanup Objectives (6 NYCRR 375-6)

Reporting Limit Exceedes UUSCO

Concentration exceeds UUSCO

Concentration exceeds RSCO & UUSCO

Concentration exceeds RRSCO, RSCO & UUSCO

Concentration exceeds PGWSCO & UUSCO

Concentration exceeds PGWSCO, RSCO & UUSCO

Concentration exceeds PGWSCO, RRSCO, RSCO & UUSCO

Table 2
Soil Waste Classifcation Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

MATRIXNEWORLD
Engineering Progress

SAMPLE ID:	EPA Table 1:	COMP (SB-01)		COMP(SB-02,SB-03)		COMP (SB-04,SB-05)		COMP SB-05A		COMP (SB-06, SB-07)		COMP SB-07(0-20)		COMP (SB-08)		COMP(SB-09,SB-10)	
LAB ID:	Maxiumum	L2224285-03		L2223664-05		L2224019-05		L2216294-02		L2224285-12		L2224285-06		L2224019-08		L2224463-05	
COLLECTION DATE:	Concentration for	5/9/2022		5/5/2022		5/6/2022		3/30/2022		5/9/2022		5/9/2022		5/6/2022		5/10/2022	
SAMPLE MATRIX:	TCLP	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
ANALYTE	(mg/l)	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc.	Q
TCLP VOLATILES																	
1,1-Dichloroethene	0.7	-	-	-	-	-	-	0.005	U	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.5	-	-	-	-	-	-	0.005	U	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	7.5	-	-	-	-	-	-	0.025	U	-	-	-	-	-	-	-	-
2-Butanone	200	-	-	-	-	-	-	0.05	U	-	-	-	-	-	-	-	-
Benzene	0.5	-	-	-	-	-	-	0.005	U	-	-	-	-	-	-	-	-
Carbon tetrachloride	0.5	-	-	-	-	-	-	0.005	U	-	-	-	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	0.005	U	-	-	-	-	-	-	-	-
Chloroform	6	-	-	-	-	-	-	0.0075	U	-	-	-	-	-	-	-	-
Tetrachloroethene	0.7	-	-	-	-	-	-	0.005	U	-	-	-	-	-	-	-	-
Trichloroethene	0.5	-	-	-	-	-	-	0.005	U	-	-	-	-	-	-	-	-
Vinyl chloride	0.2	-	-	-	-	-	-	0.01	U	-	-	-	-	-	-	-	-
TCLP SEMIVOLATILES																	
2,4,5-Trichlorophenol	400	-	-	-	-	-	-	0.025	U	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	2	-	-	-	-	-	-	0.025	U	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	0.13	-	-	-	-	-	-	0.025	U	-	-	-	-	-	-	-	-
2-Methylphenol	200	-	-	-	-	-	-	0.025	U	-	-	-	-	-	-	-	-
3-Methylphenol/4-Methylphenol	200	-	-	-	-	-	-	0.025	U	-	-	-	-	-	-	-	-
Hexachlorobenzene	0.13	-	-	-	-	-	-	0.01	U	-	-	-	-	-	-	-	-
Hexachlorobutadiene	0.5	-	-	-	-	-	-	0.01	U	-	-	-	-	-	-	-	-
Hexachloroethane	3	-	-	-	-	-	-	0.01	U	-	-	-	-	-	-	-	-
Nitrobenzene	2	-	-	-	-	-	-	0.01	U	-	-	-	-	-	-	-	-
Pentachlorophenol	100	-	-	-	-	-	-	0.05	U	-	-	-	-	-	-	-	-
Pyridine	5	-	-	-	-	-	-	0.018	U	-	-	-	-	-	-	-	-
TCLP HERBICIDES																	
2,4,5-TP (Silvex)	1	-	-	-	-	-	-	0.005	U	-	-	-	-	-	-	-	-
2,4-D	10	-	-	-	-	-	-	0.025	U	-	-	-	-	-	-	-	-
TCLP PESTICIDES																	
Chlordane	0.03	-	-	-	-	-	-	0.001	U	-	-	-	-	-	-	-	-
Endrin	0.02	-	-	-	-	-	-	0.0002	U	-	-	-	-	-	-	-	-
Heptachlor	0.008	-	-	-	-	-	-	0.0001	U	-	-	-	-	-	-	-	-
Heptachlor epoxide	0.008	-	-	-	-	-	-	0.0001	U	-	-	-	-	-	-	-	-
Lindane	0.4	-	-	-	-	-	-	0.0001	U	-	-	-	-	-	-	-	-
Methoxychlor	10	-	-	-	-	-	-	0.001	U	-	-	-	-	-	-	-	-
Toxaphene	0.5	-	-	-	-	-	-	0.001	U	-	-	-	-	-	-	-	-
TCLP METALS																	
Arsenic, TCLP	5	1	U	1		1	U	0.02	J	0.028	J	1	U	0.02	J	1	U
Barium, TCLP	100	0.504		0.429		0.387	J	0.213	J	0.347	J	0.417	J	0.288	J	0.235	J
Cadmium, TCLP	1	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Chromium, TCLP	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Lead, TCLP	5	0.469	J	0.041	U	0.5	U	0.5	U	0.5	U	0.284	J	0.5	U	0.048	J
Mercury, TCLP	0.2	0.0013		0.001	U	0.001	U	0.001	U	0.001	J	0.001	U	0.001	U	0.001	U
Selenium, TCLP	1	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Silver, TCLP	5	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
GENERAL CHEMISTRY																	
Cyanide, Reactive	NC	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
pH (H)	2 - 12.5	11.4		10.7		9.6		10.9		11.4		8.4		8.5		8	
Sulfide, Reactive	NC	10	U	10	U	10	U	10	U	10	U	10	U	10	U	34	
IGNITABILITY OF SOLIDS																	
Ignitability	NC	NI		NI		NI		NI		NI		NI		NI		NI	

Notes:

Analytical results in milligrams per liter (mg/L), or as otherwise indicated.

Q: Laboratory Qualifier

An empty Q column indicates no laboratory qualifier has been assigned.

J = Estimated concentration

U = Not detected at the reported detection limit for the sample.

"-" = Analyte not analyzed

NI = Not Ignitable

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NC = No criteria established for this contaminant

EPA Table 1 - Maxiumum Concentration of Contaminants for the Toxicity Characteristic Leaching Procedure (TCLP) per 40CFR Part 261 as of September 10, 2015.

Table 2
Soil Waste Classifcation Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

MATRIXNEWORLD
Engineering Progress

SAMPLE ID:	EPA Table 1:	COMP #1 (30,29,28)		COMP #2 (27,26,25)		COMP #3 (24,23)		COMP #4 (21,20)		COMP #5 (19,18)		COMP #6 (13,14,17)		COMP #7 (16,11)		COMP #8 (15,12)		SB22 COMP (0-5)	
LAB ID:	Maxiumum	L2166146-05		L2166146-06		L2166661-04		L2166780-05		L2167681-05		L2168050-06		L2168372-05		L2168372-06		L2210610-02	
COLLECTION DATE:	Concentration for	12/2/2021		12/2/2021		12/3/2021		12/6/2021		12/9/2021		12/10/2021		12/13/2021		12/13/2021		3/1/2022	
SAMPLE MATRIX:	TCLP	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
ANALYTE	(mg/l)	Conc.	Q	Conc	Q	Conc.	Q	Conc	Q	Conc.	Q	Conc.	Q	Conc.	Q	Conc	Q	Conc	Q
TCLP VOLATILES																			
1,1-Dichloroethene	0.7	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
1,2-Dichloroethane	0.5	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
1,4-Dichlorobenzene	7.5	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U
2-Butanone	200	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Benzene	0.5	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
Carbon tetrachloride	0.5	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
Chlorobenzene	100	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
Chloroform	6	0.0075	U	0.0075	U	0.0075	U	0.0075	U	0.0075	U	0.0075	U	0.0075	U	0.0075	U	0.0075	U
Tetrachloroethene	0.7	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
Trichloroethene	0.5	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.052		0.005	U
Vinyl chloride	0.2	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
TCLP SEMIVOLATILES																			
2,4,5-Trichlorophenol	400	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U
2,4,6-Trichlorophenol	2	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U
2,4-Dinitrotoluene	0.13	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U
2-Methylphenol	200	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U
3-Methylphenol/4-Methylphenol	200	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U
Hexachlorobenzene	0.13	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Hexachlorobutadiene	0.5	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Hexachloroethane	3	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Nitrobenzene	2	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Pentachlorophenol	100	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Pyridine	5	0.018	U	0.018	U	0.018	U	0.018	U	0.018	U	0.018	U	0.018	U	0.018	U	0.018	U
TCLP HERBICIDES																			
2,4,5-TP (Silvex)	1	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
2,4-D	10	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U
TCLP PESTICIDES																			
Chlordane	0.03	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Endrin	0.02	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U
Heptachlor	0.008	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U
Heptachlor epoxide	0.008	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U
Lindane	0.4	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U
Methoxychlor	10	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Toxaphene	0.5	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
TCLP METALS																			
Arsenic, TCLP	5	0.03	J	0.038	J	1	U	1	U	0.023	J	0.02	J	1	U	0.019	J	1	U
Barium, TCLP	100	0.38	J	0.319	J	0.259	J	0.185	J	0.213	J	0.228	J	0.083	J	0.093	J	0.391	J
Cadmium, TCLP	1	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Chromium, TCLP	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Lead, TCLP	5	0.061	J	0.279	J	0.035	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Mercury, TCLP	0.2	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Selenium, TCLP	1	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Silver, TCLP	5	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
GENERAL CHEMISTRY																			
Cyanide, Reactive	NC	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
pH (H)	2 - 12.5	8.4		8.3		9		8		8.3		8.1		8.4		7.8		8.4	
Sulfide, Reactive	NC	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
IGNITABILITY OF SOLIDS																			
Ignitability	NC	NI		NI		NI		NI		NI		NI		NI		NI		NI	

Notes:

Analytical results in milligrams per liter (mg/L), or as otherwise

Q: Laboratory Qualifier

An empty Q column indicates no laboratory qualifier has been a

J = Estimated concentration

U = Not detected at the reported detection limit for the sample.

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EPA Table 1 - Maxiumum Concentration of Contaminants for th

Table 3
Groundwater Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

MATRIXNEWORLD
Engineering Progress

SAMPLE ID:	NYS AWQS	TWP-07		GW-DUP		SB13		SB16 GW		SB17	
LAB ID:		L2224285-07		L2224285-08		L2169771-03		L2170846-01		L2169537-04	
COLLECTION DATE:		5/9/2022		5/9/2022		12/17/2021		12/23/2021		12/16/2021	
ANALYTE	(ug/l)	Conc	Q	Conc	Q	Conc	Q	Conc	Q	Conc	Q
VOLATILE ORGANICS											
1,1,1,2-Tetrachloroethane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,1,1-Trichloroethane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,1,2,2-Tetrachloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane	1	***1.5***	***U***	***1.5***	***U***	***1.5***	***U***	***1.5***	***U***	***1.5***	***U***
1,1-Dichloroethane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,1-Dichloroethene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloropropene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,3-Trichlorobenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,3-Trichloropropane	0.04	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***
1,2,4,5-Tetramethylbenzene	5	2	U	2	U	2	U	2	U	2	U
1,2,4-Trichlorobenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-Trimethylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dibromo-3-chloropropane	0.04	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***
1,2-Dibromoethane	0.0006	***2***	***U***	***2***	***U***	***2***	***U***	***2***	***U***	***2***	***U***
1,2-Dichlorobenzene	3	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichloroethane	0.6	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloroethene, Total	NC	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichloropropane	1	***1***	***U***	***1***	***U***	***1***	***U***	***1***	***U***	***1***	***U***
1,3,5-Trimethylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichlorobenzene	3	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropene, Total	NC	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,4-Dichlorobenzene	3	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,4-Dioxane	NC	250	U	250	U	250	U	250	U	250	U
2,2-Dichloropropane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
2-Butanone	50	5	U	5	U	5	U	5	U	5	U
2-Hexanone	50	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone	NC	5	U	5	U	5	U	5	U	5	U
Acetone	50	5	U	5	U	5	U	5	U	5	U
Acrylonitrile	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
Benzene	1	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromobenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromochloromethane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromodichloromethane	50	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromoform	50	2	U	2	U	2	U	2	U	2	U
Bromomethane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Carbon disulfide	60	5	U	5	U	5	U	5	U	5	U
Carbon tetrachloride	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloroethane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloroform	7	2.5	U	2.5	U	3.8		2.5	U	2.5	U
Chloromethane	NC	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,2-Dichloroethene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,3-Dichloropropene	0.4	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***
Dibromochloromethane	50	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Dibromomethane	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
Dichlorodifluoromethane	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
Ethyl ether	NC	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Ethylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Hexachlorobutadiene	0.5	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***
Isopropylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Methyl tert butyl ether	10	0.9	J	0.96	J	2.5	U	2.5	U	2.5	U
Methylene chloride	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
n-Butylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
n-Propylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Naphthalene	10	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
o-Chlorotoluene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
o-Xylene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Chlorotoluene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Diethylbenzene	NC	2	U	2	U	2	U	2	U	2	U
p-Ethyltoluene	NC	2	U	2	U	2	U	2	U	2	U
p-Isopropyltoluene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p/m-Xylene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
sec-Butylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Styrene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
tert-Butylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Tetrachloroethene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Toluene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,2-Dichloroethene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,3-Dichloropropene	0.4	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***
trans-1,4-Dichloro-2-butene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Trichloroethene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Vinyl acetate	NC	5	U	5	U	5	U	5	U	5	U
Vinyl chloride	2	**2**		**2.1**		1	U	1	U	1	U
Xylenes, Total	NC	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U

All analytical results for groundwater in micrograms per liter (ug/L).
Q = Laboratory Qualifier
An empty Q column indicates no laboratory qualifier has been assigned.
NC = No criteria established for this contaminant
U = Not detected at the reported detection limit for the sample.
J = The concentration given is an approximate value.
"-" = Not analyzed
SB-26 DUP is a duplicate sample of SB-26
GW-DUP is a duplicate sample of TWP-07
NY-AWQS: New York TOGS 111 Ambient Water Quality Standards criteria reflects all addendum to criteria through June 2004.
Reporting Limit Exceedes NYS AWQS
Concentration Exceeds NYS AWQS

MATRIXNEWORLD
Engineering Progress

Table 3
Groundwater Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

SAMPLE ID:	NYS AWQS	TWP-07		GW-DUP		SB13		SB16 GW		SB17	
LAB ID:		L2224285-07		L2224285-08		L2169771-03		L2170846-01		L2169537-04	
COLLECTION DATE:		5/9/2022		5/9/2022		12/17/2021		12/23/2021		12/16/2021	
ANALYTE	(ug/l)	Conc	Q	Conc	Q	Conc	Q	Conc	Q	Conc	Q
SEMIVOLATILE ORGANICS											
1,2,4,5-Tetrachlorobenzene	5	***10***	***U***	***10***	***U***	***10***	***U***	***10***	***U***	***10***	***U***
1,2,4-Trichlorobenzene	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
1,2-Dichlorobenzene	3	2	U	2	U	2	U	2	U	2	U
1,3-Dichlorobenzene	3	2	U	2	U	2	U	2	U	2	U
1,4-Dichlorobenzene	3	2	U	2	U	2	U	2	U	2	U
2,4,5-Trichlorophenol	NC	5	U	5	U	5	U	5	U	5	U
2,4,6-Trichlorophenol	NC	5	U	5	U	5	U	5	U	5	U
2,4-Dichlorophenol	1	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
2,4-Dimethylphenol	50	5	U	5	U	5	U	5	U	5	U
2,4-Dinitrophenol	10	***20***	***U***	***20***	***U***	***20***	***U***	***20***	***U***	***20***	***U***
2,4-Dinitrotoluene	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
2,6-Dinitrotoluene	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
2-Chlorophenol	NC	2	U	2	U	2	U	2	U	2	U
2-Methylphenol	NC	5	U	5	U	5	U	5	U	5	U
2-Nitroaniline	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
2-Nitrophenol	NC	10	U	10	U	10	U	10	U	10	U
3,3'-Dichlorobenzidine	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
3-Methylphenol/4-Methylphenol	NC	5	U	5	U	5	U	5	U	5	U
3-Nitroaniline	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
4,6-Dinitro-o-cresol	NC	10	U	10	U	10	U	10	U	10	U
4-Bromophenyl phenyl ether	NC	2	U	2	U	2	U	2	U	2	U
4-Chloroaniline	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
4-Chlorophenyl phenyl ether	NC	2	U	2	U	2	U	2	U	2	U
4-Nitroaniline	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
4-Nitrophenol	NC	10	U	10	U	10	U	10	U	10	U
Acetophenone	NC	5	U	5	U	5	U	5	U	5	U
Benzoic Acid	NC	50	U	50	U	50	U	50	U	50	U
Benzyl Alcohol	NC	2	U	2	U	2	U	2	U	2	U
Biphenyl	NC	2	U	2	U	2	U	2	U	2	U
Bis(2-chloroethoxy)methane	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
Bis(2-chloroethyl)ether	1	***2***	***U***	***2***	***U***	***2***	***U***	***2***	***U***	***2***	***U***
Bis(2-chloroisopropyl)ether	5	2	U	2	U	2	U	2	U	2	U
Bis(2-ethylhexyl)phthalate	5	3	U	3	U	3	U	3	U	3	U
Butyl benzyl phthalate	50	5	U	5	U	5	U	5	U	5	U
Carbazole	NC	2	U	2	U	2	U	2	U	2	U
Di-n-butylphthalate	50	5	U	5	U	5	U	5	U	5	U
Di-n-octylphthalate	50	5	U	5	U	5	U	5	U	5	U
Dibenzofuran	NC	2	U	2	U	2	U	2	U	2	U
Diethyl phthalate	50	5	U	5	U	5	U	5	U	5	U
Dimethyl phthalate	50	5	U	5	U	5	U	5	U	5	U
Hexachlorocyclopentadiene	5	***20***	***U***	***20***	***U***	***20***	***U***	***20***	***U***	***20***	***U***
Isophorone	50	5	U	5	U	5	U	5	U	5	U
n-Nitrosodi-n-propylamine	NC	5	U	5	U	5	U	5	U	5	U
NDPA/DPA	50	2	U	2	U	2	U	2	U	2	U
Nitrobenzene	0.4	***2***	***U***	***2***	***U***	***2***	***U***	***2***	***U***	***2***	***U***
p-Chloro-m-cresol	NC	2	U	2	U	2	U	2	U	2	U
Phenol	1	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
2-Chloronaphthalene	10	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
2-Methylnaphthalene	NC	0.1	U	0.1	U	0.03	J	0.1	U	0.1	U
Acenaphthene	20	0.1	U	0.1	U	0.02	J	0.1	U	0.1	U
Acenaphthylene	NC	0.1	U	0.1	U	0.02	J	0.1	U	0.1	U
Anthracene	50	0.02	J	0.1	U	0.03	J	0.1	U	0.1	U
Benzo(a)anthracene	0.002	**0.04**	**J**	***0.1***	***U***	**0.04**	**J**	***0.1***	***U***	***0.1***	***U***
Benzo(a)pyrene	0.002	**0.02**	**J**	***0.1***	***U***	**0.02**	**J**	***0.1***	***U***	***0.1***	***U***
Benzo(b)fluoranthene	0.002	**0.03**	**J**	***0.1***	***U***	**0.02**	**J**	***0.1***	***U***	***0.1***	***U***
Benzo(ghi)perylene	NC	0.02	J	0.1	U	0.02	J	0.1	U	0.1	U
Benzo(k)fluoranthene	0.002	**0.02**	**J**	***0.1***	***U***	**0.02**	**J**	***0.1***	***U***	***0.1***	***U***
Chrysene	0.002	**0.02**	**J**	***0.1***	***U***	**0.03**	**J**	***0.1***	***U***	**0.02**	**J**
Dibenzo(a,h)anthracene	NC	0.1	U	0.1	U	0.02	J	0.1	U	0.1	U
Fluoranthene	50	0.05	J	0.1	U	0.03	J	0.1	U	0.02	J
Fluorene	50	0.02	J	0.1	U	0.03	J	0.1	U	0.1	U
Hexachlorobenzene	0.04	***0.8***	***U***	***0.8***	***U***	***0.8***	***U***	***0.8***	***U***	***0.8***	***U***
Hexachlorobutadiene	0.5	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***
Hexachloroethane	5	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Indeno(1,2,3-cd)pyrene	0.002	**0.02**	**J**	***0.1***	***U***	**0.02**	**J**	***0.1***	***U***	***0.1***	***U***
Naphthalene	10	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Pentachlorophenol	1	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Phenanthrene	50	0.06	J	0.1	U	0.04	J	0.1	U	0.03	J
Pyrene	50	0.04	J	0.1	U	0.03	J	0.1	U	0.03	J

All analytical results for groundwater in micrograms per liter (ug/L).
Q = Laboratory Qualifier
An empty Q column indicates no laboratory qualifier has been assigned.
NC = No criteria established for this contaminant
U = Not detected at the reported detection limit for the sample.
J = The concentration given is an approximate value.
"-" = Not analyzed
SB-26 DUP is a duplicate sample of SB-26
GW-DUP is a duplicate sample of TWP-07
NY-AWQS: New York TOGS 111 Ambient Water Quality Standards criteria reflects all addendum to criteria through June 2004.
Reporting Limit Exceedes NYS AWQS
Concentration Exceeds NYS AWQS

Table 3
Groundwater Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

MATRIXNEWORLD
Engineering Progress

SAMPLE ID:	NYS AWQS	TWP-07		GW-DUP		SB13		SB16 GW		SB17	
LAB ID:		L2224285-07		L2224285-08		L2169771-03		L2170846-01		L2169537-04	
COLLECTION DATE:		5/9/2022		5/9/2022		12/17/2021		12/23/2021		12/16/2021	
ANALYTE	(ug/l)	Conc	Q	Conc	Q	Conc	Q	Conc	Q	Conc	Q
CHLORINATED HERBICIDES											
2,4,5-T	35	2	U	2	U	2	U	-		2	U
2,4,5-TP (Silvex)	nc	2	U	2	U	2	U	-		2	U
2,4-D	50	10	U	10	U	10	U	-		10	U
ORGANOCHLORINE PESTICIDES											
4,4'-DDD	0.3	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
4,4'-DDE	0.2	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
4,4'-DDT	0.2	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
Aldrin	0	***0.014***	***U***	***0.014***	***U***	***0.014***	***U***	***0.014***	***U***	***0.014***	***U***
Alpha-BHC	0.01	***0.014***	***U***	***0.014***	***U***	***0.014***	***U***	***0.014***	***U***	***0.014***	***U***
Beta-BHC	0.04	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
Chlordane	0.05	***0.143***	***U***	***0.143***	***U***	***0.143***	***U***	***0.143***	***U***	***0.143***	***U***
cis-Chlordane	NC	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
Delta-BHC	0.04	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
Dieldrin	0.004	***0.029***	***U***	***0.029***	***U***	***0.029***	***U***	***0.029***	***U***	***0.029***	***U***
Endosulfan I	NC	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
Endosulfan II	NC	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
Endosulfan sulfate	NC	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
Endrin	0	***0.029***	***U***	***0.029***	***U***	***0.029***	***U***	***0.029***	***U***	***0.029***	***U***
Endrin aldehyde	5	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
Endrin ketone	5	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
Heptachlor	0.04	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
Heptachlor epoxide	0.03	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
Lindane	0.05	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
Methoxychlor	35	0.143	U	0.143	U	0.143	U	0.143	U	0.143	U
Toxaphene	0.06	***0.143***	***U***	***0.143***	***U***	***0.143***	***U***	***0.143***	***U***	***0.143***	***U***
trans-Chlordane	NC	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
POLYCHLORINATED BIPHENYLS BY											
Aroclor 1016	0.09	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U
Aroclor 1221	0.09	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U
Aroclor 1232	0.09	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U
Aroclor 1242	0.09	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U
Aroclor 1248	0.09	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U
Aroclor 1254	0.09	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U
Aroclor 1260	0.09	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U
Aroclor 1262	0.09	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U
Aroclor 1268	0.09	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U
DISSOLVED METALS											
Aluminum, Dissolved	NC	7.56	J	5.93	J	20	U	50	U	100	U
Antimony, Dissolved	3	0.53	J	***4***	***U***	0.96	J	***20***	***U***	***40***	***U***
Arsenic, Dissolved	25	4.01		5.51		2.22		1.56	J	1.74	J
Barium, Dissolved	1000	327.8		290.4		74.76		17.23		10.31	
Beryllium, Dissolved	3	0.5	U	0.5	U	1	U	2.5	U	***5***	***U***
Cadmium, Dissolved	5	0.2	U	0.2	U	0.12	J	1	U	2	U
Calcium, Dissolved	NC	149000		141000		185000		164000		94100	
Chromium, Dissolved	50	1	U	1	U	0.89	J	5	U	10	U
Cobalt, Dissolved	NC	2.18		2.49		1	U	2.5	U	5	U
Copper, Dissolved	200	0.46	JB	1	U	12.85		5	U	10	U
Iron, Dissolved	300	31.6	J	24.5	J	100	U	250	U	***500***	***U***
Lead, Dissolved	25	1	U	1	U	2	U	5	U	10	U
Magnesium, Dissolved	35000	**110000**		**107000**		**150000**		**490000**		5030	
Manganese, Dissolved	300	**3100**		**2815**		1.63	J	2.2	J	**499.2**	
Mercury, Dissolved	0.7	0.4	U	0.2	U	0.11	J	***2***	***U***	0.2	U
Nickel, Dissolved	100	3.62		4.29		4	U	10	U	20	U
Potassium, Dissolved	NC	62300		59800		36500		132000		3680	
Selenium, Dissolved	10	5	U	5	U	***10***	***U***	***25***	***U***	***50***	***U***
Silver, Dissolved	50	0.4	U	0.4	U	0.8	U	2	U	4	U
Sodium, Dissolved	20000	**1280000**		**1200000**		**1260000**		**4020000**		16300	
Thallium, Dissolved	0.5	0.14	J	***1***	***U***	0.32	J	***5***	***U***	***10***	***U***
Vanadium, Dissolved	NC	5	U	5	U	10	U	25	U	50	U
Zinc, Dissolved	2000	10	U	10	U	20	U	50	U	100	U
TOTAL METALS											
Aluminum, Total	NC	132000		101000		30.3		19.7		315	
Antimony, Total	3	***20***	***U***	***8***	***U***	***8***	***U***	***4***	***U***	***40***	***U***
Arsenic, Total	25	**59.22**		**37.41**		2.21		1.34		2.73	J
Barium, Total	1000	**1772**		**1532**		76.11		18.04		12.03	
Beryllium, Total	3	**10.12**		**8.29**		1	U	0.5	U	***5***	***U***
Cadmium, Total	5	0.87	J	0.73		0.4	U	0.2	U	2	U
Calcium, Total	NC	156000		142000		183000		45700		96800	
Chromium, Total	50	**259.3**		**187.1**		0.88	J	0.19	J	3.17	J
Cobalt, Total	NC	149.6		120.8		1	U	0.5	U	5	U
Copper, Total	200	**539.6**		**411.4**		12.83		2.03		10	U
Iron, Total	300	**240000**		**223000**		98.6	J	50.3		**1390**	
Lead, Total	25	**305.2**		**257.7**		2	U	10	U	10	U
Magnesium, Total	35000	**151000**		**163000**		**147000**		**493000**		5190	
Manganese, Total	300	**9196**		**9452**		2.96		0.76	J	**496.2**	
Mercury, Total	0.7	0.53	J	0.48	J	0.09	J	0.1	J	0.2	U
Nickel, Total	100	**515.9**		**387**		4	U	0.84	J	20	U
Potassium, Total	NC	63600		56000		36100		79400		3860	
Selenium, Total	10	**70.5**		**48.7**		***10***	***U***	5	U	***50***	***U***
Silver, Total	50	2	U	0.49	J	0.8	U	0.4	U	4	U
Sodium, Total	20000	**1460000**		**1390000**		**1220000**		**4370000**		16200	
Thallium, Total	0.5	**2.84**	**J**	**1.47**	**J**	***2***	***U***	***10***	***U***	***10***	***U***
Vanadium, Total	NC	327.3		228.8		10	U	5	U	50	U
Zinc, Total	2000	552.1		362.8		20	U	10	U	100	U
GENERAL CHEMISTRY											
Chromium, Trivalent	NC	-	-	-	-	10	U	-		10	U
Chromium, Hexavalent	50	10	U	10	U	10	U	10	U	10	U
Cyanide, Total	200	2	J	2	J	5	U	5	U	2	J

All analytical results for groundwater in micrograms per liter (ug/L).
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Reporting Limit Exceedes NYS AWQS
Concentration Exceeds NYS AWQS

Table 3
Groundwater Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

MATRIXNEWORLD
Engineering Progress

SAMPLE ID:	NYS AWQS	SB20		SB21		SB24 GW		SB26		SB26 DUP		SB29	
LAB ID:		L2169771-01		L2169771-02		L2170846-02		L2169537-01		L2169537-02		L2169537-03	
COLLECTION DATE:		12/17/2021		12/17/2021		12/23/2021		12/16/2021		12/16/2021		12/16/2021	
ANALYTE	(ug/l)	Conc	Q	Conc	Q	Conc	Q	Conc	Q	Conc	Q	Conc	Q
VOLATILE ORGANICS													
1,1,1,2-Tetrachloroethane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,1,1-Trichloroethane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,1,2,2-Tetrachloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane	1	***1.5***	***U***	***1.5***	***U***	***1.5***	***U***	***1.5***	***U***	***1.5***	***U***	***1.5***	***U***
1,1-Dichloroethane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,1-Dichloroethene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloropropene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,3-Trichlorobenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,3-Trichloropropane	0.04	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***
1,2,4,5-Tetramethylbenzene	5	2	U	2	U	2	U	2	U	2	U	2	U
1,2,4-Trichlorobenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-Trimethylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dibromo-3-chloropropane	0.04	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***
1,2-Dibromoethane	0.0006	***2***	***U***	***2***	***U***	***2***	***U***	***2***	***U***	***2***	***U***	***2***	***U***
1,2-Dichlorobenzene	3	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichloroethane	0.6	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloroethene, Total	NC	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichloropropane	1	***1***	***U***	***1***	***U***	***1***	***U***	***1***	***U***	***1***	***U***	***1***	***U***
1,3,5-Trimethylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichlorobenzene	3	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropene, Total	NC	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,4-Dichlorobenzene	3	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,4-Dioxane	NC	250	U	250	U	250	U	250	U	250	U	250	U
2,2-Dichloropropane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
2-Butanone	50	5	U	5	U	5	U	5	U	5	U	5	U
2-Hexanone	50	5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone	NC	5	U	5	U	5	U	5	U	5	U	5	U
Acetone	50	5	U	5	U	5	U	5	U	5	U	5	U
Acrylonitrile	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
Benzene	1	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromobenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromochloromethane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromodichloromethane	50	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromoform	50	2	U	2	U	2	U	2	U	2	U	2	U
Bromomethane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Carbon disulfide	60	5	U	5	U	5	U	5	U	5	U	5	U
Carbon tetrachloride	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloroethane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloroform	7	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	0.7	J
Chloromethane	NC	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,2-Dichloroethene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,3-Dichloropropene	0.4	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***
Dibromochloromethane	50	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Dibromomethane	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
Dichlorodifluoromethane	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
Ethyl ether	NC	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Ethylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Hexachlorobutadiene	0.5	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***
Isopropylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Methyl tert butyl ether	10	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Methylene chloride	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
n-Butylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
n-Propylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Naphthalene	10	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
o-Chlorotoluene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
o-Xylene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Chlorotoluene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Diethylbenzene	NC	2	U	2	U	2	U	2	U	2	U	2	U
p-Ethyltoluene	NC	2	U	2	U	2	U	2	U	2	U	2	U
p-Isopropyltoluene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p/m-Xylene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
sec-Butylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Styrene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
tert-Butylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Tetrachloroethene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Toluene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,2-Dichloroethene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,3-Dichloropropene	0.4	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***
trans-1,4-Dichloro-2-butene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Trichloroethene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Vinyl acetate	NC	5	U	5	U	5	U	5	U	5	U	5	U
Vinyl chloride	2	1	U	1	U	1	U	1	U	1	U	1	U
Xylenes, Total	NC	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U

All analytical results for groundwater in micrograms per liter (ug/L
Q = Laboratory Qualifier
An empty Q column indicates no laboratory qualifier has been ass
NC = No criteria established for this contaminant
U = Not detected at the reported detection limit for the sample.
J = The concentration given is an approximate value.
"-" = Not analyzed
SB-26 DUP is a duplicate sample of SB-26
GW-DUP is a duplicate sample of TWP-07
NY-AWQS: New York TOGS 111 Ambient Water Quality Standa
Reporting Limit Exceedes NYS AWQS
Concentration Exceeds NYS AWQS

Table 3
Groundwater Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

MATRIXNEWORLD
Engineering Progress

SAMPLE ID:	NYS AWQS	SB20		SB21		SB24 GW		SB26		SB26 DUP		SB29	
LAB ID:		L2169771-01		L2169771-02		L2170846-02		L2169537-01		L2169537-02		L2169537-03	
COLLECTION DATE:		12/17/2021		12/17/2021		12/23/2021		12/16/2021		12/16/2021		12/16/2021	
ANALYTE	(ug/l)	Conc	Q	Conc	Q	Conc	Q	Conc	Q	Conc	Q	Conc	Q
SEMIVOLATILE ORGANICS													
1,2,4,5-Tetrachlorobenzene	5	***10***	***U***	***10***	***U***	***10***	***U***	***10***	***U***	***10***	***U***	***10***	***U***
1,2,4-Trichlorobenzene	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
1,2-Dichlorobenzene	3	2	U	2	U	2	U	2	U	2	U	2	U
1,3-Dichlorobenzene	3	2	U	2	U	2	U	2	U	2	U	2	U
1,4-Dichlorobenzene	3	2	U	2	U	2	U	2	U	2	U	2	U
2,4,5-Trichlorophenol	NC	5	U	5	U	5	U	5	U	5	U	5	U
2,4,6-Trichlorophenol	NC	5	U	5	U	5	U	5	U	5	U	5	U
2,4-Dichlorophenol	1	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
2,4-Dimethylphenol	50	5	U	5	U	5	U	5	U	5	U	5	U
2,4-Dinitrophenol	10	***20***	***U***	***20***	***U***	***20***	***U***	***20***	***U***	***20***	***U***	***20***	***U***
2,4-Dinitrotoluene	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
2,6-Dinitrotoluene	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
2-Chlorophenol	NC	2	U	2	U	2	U	2	U	2	U	2	U
2-Methylphenol	NC	5	U	5	U	5	U	5	U	5	U	5	U
2-Nitroaniline	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
2-Nitrophenol	NC	10	U	10	U	10	U	10	U	10	U	10	U
3,3'-Dichlorobenzidine	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
3-Methylphenol/4-Methylphenol	NC	5	U	5	U	5	U	5	U	5	U	5	U
3-Nitroaniline	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
4,6-Dinitro-o-cresol	NC	10	U	10	U	10	U	10	U	10	U	10	U
4-Bromophenyl phenyl ether	NC	2	U	2	U	2	U	2	U	2	U	2	U
4-Chloroaniline	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
4-Chlorophenyl phenyl ether	NC	2	U	2	U	2	U	2	U	2	U	2	U
4-Nitroaniline	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
4-Nitrophenol	NC	10	U	10	U	10	U	10	U	10	U	10	U
Acetophenone	NC	5	U	5	U	5	U	5	U	5	U	5	U
Benzoic Acid	NC	50	U	50	U	50	U	50	U	50	U	50	U
Benzyl Alcohol	NC	2	U	2	U	2	U	2	U	2	U	2	U
Biphenyl	NC	2	U	2	U	2	U	2	U	2	U	2	U
Bis(2-chloroethoxy)methane	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
Bis(2-chloroethyl)ether	1	***2***	***U***	***2***	***U***	***2***	***U***	***2***	***U***	***2***	***U***	***2***	***U***
Bis(2-chloroisopropyl)ether	5	2	U	2	U	2	U	2	U	2	U	2	U
Bis(2-ethylhexyl)phthalate	5	3	U	3	U	3	U	3	U	3	U	3	U
Butyl benzyl phthalate	50	5	U	5	U	5	U	5	U	5	U	5	U
Carbazole	NC	2	U	2	U	2	U	2	U	2	U	2	U
Di-n-butylphthalate	50	5	U	5	U	5	U	5	U	5	U	5	U
Di-n-octylphthalate	50	5	U	5	U	5	U	5	U	5	U	5	U
Dibenzofuran	NC	2	U	2	U	2	U	2	U	2	U	2	U
Diethyl phthalate	50	5	U	5	U	5	U	5	U	5	U	5	U
Dimethyl phthalate	50	5	U	5	U	5	U	5	U	5	U	5	U
Hexachlorocyclopentadiene	5	***20***	***U***	***20***	***U***	***20***	***U***	***20***	***U***	***20***	***U***	***20***	***U***
Isophorone	50	5	U	5	U	5	U	5	U	5	U	5	U
n-Nitrosodi-n-propylamine	NC	5	U	5	U	5	U	5	U	5	U	5	U
NDPA/DPA	50	2	U	2	U	2	U	2	U	2	U	2	U
Nitrobenzene	0.4	***2***	***U***	***2***	***U***	***2***	***U***	***2***	***U***	***2***	***U***	***2***	***U***
p-Chloro-m-cresol	NC	2	U	2	U	2	U	2	U	2	U	2	U
Phenol	1	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
2-Chloronaphthalene	10	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
2-Methylnaphthalene	NC	0.1	U	0.03	J	0.1	U	0.1	U	0.1	U	0.1	U
Acenaphthene	20	0.1	U	0.03	J	0.1	U	0.1	U	0.1	U	0.1	U
Acenaphthylene	NC	0.1	U	0.02	J	0.1	U	0.1	U	0.1	U	0.1	U
Anthracene	50	0.1	U	0.03	J	0.1	U	0.1	U	0.1	U	0.01	J
Benzo(a)anthracene	0.002	**0.03**	**J**	**0.05**	**J**	***0.1***	***U***	***0.1***	***U***	***0.1***	***U***	**0.08**	**J**
Benzo(a)pyrene	0.002	***0.1***	***U***	**0.03**	**J**	***0.1***	***U***	***0.1***	***U***	***0.1***	***U***	**0.06**	**J**
Benzo(b)fluoranthene	0.002	**0.01**	**J**	**0.04**	**J**	***0.1***	***U***	***0.1***	***U***	***0.1***	***U***	**0.1**	
Benzo(ghi)perylene	NC	0.1	U	0.03	J	0.1	U	0.1	U	0.1	U	0.06	J
Benzo(k)fluoranthene	0.002	***0.1***	***U***	**0.04**	**J**	***0.1***	***U***	***0.1***	***U***	***0.1***	***U***	**0.03**	**J**
Chrysene	0.002	***0.1***	***U***	**0.04**	**J**	***0.1***	***U***	***0.1***	***U***	**0.02**	**J**	**0.09**	**J**
Dibenzo(a,h)anthracene	NC	0.1	U	0.04	J	0.1	U	0.1	U	0.1	U	0.1	U
Fluoranthene	50	0.03	J	0.05	J	0.1	U	0.03	J	0.02	J	0.16	
Fluorene	50	0.1	U	0.04	J	0.1	U	0.1	U	0.1	U	0.1	U
Hexachlorobenzene	0.04	***0.8***	***U***	***0.8***	***U***	***0.8***	***U***	***0.8***	***U***	***0.8***	***U***	***0.8***	***U***
Hexachlorobutadiene	0.5	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***
Hexachloroethane	5	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Indeno(1,2,3-cd)pyrene	0.002	***0.1***	***U***	**0.04**	**J**	***0.1***	***U***	***0.1***	***U***	***0.1***	***U***	**0.06**	**J**
Naphthalene	10	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Pentachlorophenol	1	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Phenanthrene	50	0.04	J	0.05	J	0.03	J	0.1	U	0.1	U	0.09	J
Pyrene	50	0.03	J	0.05	J	0.02	J	0.04	J	0.03	J	0.15	

All analytical results for groundwater in micrograms per liter (ug/L
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SB-26 DUP is a duplicate sample of SB-26
GW-DUP is a duplicate sample of TWP-07
NY-AWQS: New York TOGS 111 Ambient Water Quality Standa
Reporting Limit Exceedes NYS AWQS
Concentration Exceeds NYS AWQS

Table 3
Groundwater Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

MATRIXNEWORLD
Engineering Progress

SAMPLE ID:	NYS AWQS	SB20		SB21		SB24 GW		SB26		SB26 DUP		SB29	
LAB ID:		L2169771-01		L2169771-02		L2170846-02		L2169537-01		L2169537-02		L2169537-03	
COLLECTION DATE:		12/17/2021		12/17/2021		12/23/2021		12/16/2021		12/16/2021		12/16/2021	
ANALYTE	(ug/l)	Conc	Q	Conc	Q	Conc	Q	Conc	Q	Conc	Q	Conc	Q
CHLORINATED HERBICIDES													
2,4,5-T	35	2	U	2	U	-		2	U	2	U	2	U
2,4,5-TP (Silvex)	nc	2	U	2	U	-		2	U	2	U	2	U
2,4-D	50	10	U	10	U	-		10	U	10	U	10	U
ORGANOCHLORINE PESTICIDES													
4,4'-DDD	0.3	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
4,4'-DDE	0.2	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
4,4'-DDT	0.2	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
Aldrin	0	***0.014***	***U***	***0.014***	***U***	***0.014***	***U***	***0.014***	***U***	***0.014***	***U***	***0.014***	***U***
Alpha-BHC	0.01	***0.014***	***U***	***0.014***	***U***	***0.014***	***U***	***0.014***	***U***	***0.014***	***U***	***0.014***	***U***
Beta-BHC	0.04	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
Chlordane	0.05	***0.143***	***U***	***0.143***	***U***	***0.143***	***U***	***0.143***	***U***	***0.143***	***U***	***0.143***	***U***
cis-Chlordane	NC	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
Delta-BHC	0.04	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
Dieldrin	0.004	***0.029***	***U***	***0.029***	***U***	***0.029***	***U***	***0.029***	***U***	***0.029***	***U***	***0.029***	***U***
Endosulfan I	NC	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
Endosulfan II	NC	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
Endosulfan sulfate	NC	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
Endrin	0	***0.029***	***U***	***0.029***	***U***	***0.029***	***U***	***0.029***	***U***	***0.029***	***U***	***0.029***	***U***
Endrin aldehyde	5	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
Endrin ketone	5	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
Heptachlor	0.04	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
Heptachlor epoxide	0.03	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
Lindane	0.05	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
Methoxychlor	35	0.143	U	0.143	U	0.143	U	0.143	U	0.143	U	0.143	U
Toxaphene	0.06	***0.143***	***U***	***0.143***	***U***	***0.143***	***U***	***0.143***	***U***	***0.143***	***U***	***0.143***	***U***
trans-Chlordane	NC	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
POLYCHLORINATED BIPHENYLS BY													
Aroclor 1016	0.09	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U
Aroclor 1221	0.09	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U
Aroclor 1232	0.09	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U
Aroclor 1242	0.09	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U
Aroclor 1248	0.09	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U
Aroclor 1254	0.09	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U
Aroclor 1260	0.09	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U
Aroclor 1262	0.09	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U
Aroclor 1268	0.09	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U
DISSOLVED METALS													
Aluminum, Dissolved	NC	6.85	J	6.71	J	4.37	J	100	U	100	U	7.49	J
Antimony, Dissolved	3	0.62	J	0.79	J	1.05	J	***40***	***U***	***40***	***U***	***4***	***U***
Arsenic, Dissolved	25	3.25		0.89		0.89		5	U	5	U	1.45	
Barium, Dissolved	1000	7.96		12.28		3.37		43.42		37.84		22.05	
Beryllium, Dissolved	3	0.5	U	0.5	U	0.5	U	***5***	***U***	***5***	***U***	0.5	U
Cadmium, Dissolved	5	0.2	U	0.2	U	0.2	U	2	U	2	U	0.2	U
Calcium, Dissolved	NC	37500		84400		112000		232000		191000		39400	
Chromium, Dissolved	50	1	U	1	U	0.37	J	10	U	10	U	1	U
Cobalt, Dissolved	NC	2.04		1.05		0.5	U	5	U	5	U	0.5	U
Copper, Dissolved	200	1	U	0.4	J	1	U	10	U	10	U	1.6	
Iron, Dissolved	300	**1370**		**596**		55		***500***	***U***	***500***	***U***	50	U
Lead, Dissolved	25	1	U	1	U	1	U	10	U	10	U	1	U
Magnesium, Dissolved	35000	7640		7910		18000		**588000**		**534000**		**405000**	
Manganese, Dissolved	300	**1088**		**489.3**		119		60.62		41.72		1.89	
Mercury, Dissolved	0.7	0.2	U	0.09	J	0.2	U	0.2	U	0.2	U	0.2	U
Nickel, Dissolved	100	2	U	0.67	J	1.4	J	14.4	J	11.41	J	1.79	J
Potassium, Dissolved	NC	3210		4430		16600		183000		163000		78400	
Selenium, Dissolved	10	5	U	5	U	5	U	***50***	***U***	***50***	***U***	5	U
Silver, Dissolved	50	0.4	U	0.4	U	0.4	U	4	U	4	U	0.4	U
Sodium, Dissolved	20000	14200		18700		**108000**		**4810000**		**4830000**		**3490000**	
Thallium, Dissolved	0.5	***1***	***U***	0.28	J	***1***	***U***	***10***	***U***	***10***	***U***	***1***	***U***
Vanadium, Dissolved	NC	5	U	5	U	2.45	J	50	U	50	U	5	U
Zinc, Dissolved	2000	5.63	J	10	U	4.32	JB	100	U	100	U	10	U
TOTAL METALS													
Aluminum, Total	NC	240		242		39.3		100	U	62.1	J	100	U
Antimony, Total	3	***4***	***U***	***4***	***U***	***4***	***U***	***40***	***U***	***40***	***U***	***40***	***U***
Arsenic, Total	25	4.25		1.97		1.02		5	U	5	U	1.91	J
Barium, Total	1000	8.99		13.84		3.68		38.74		38.51		24.29	
Beryllium, Total	3	0.5	U	0.5	U	0.5	U	***5***	***U***	***5***	***U***	***5***	***U***
Cadmium, Total	5	0.2	U	0.2	U	0.2	U	2	U	2	U	2	U
Calcium, Total	NC	37400		82100		109000		177000		181000		131000	
Chromium, Total	50	2.25		2.95		0.64	J	10	U	10	U	10	U
Cobalt, Total	NC	2.38		1.24		0.5	U	5	U	5	U	5	U
Copper, Total	200	0.89	J	1.45		1	U	10	U	10	U	10	U
Iron, Total	300	**2850**		**2700**		234		***500***	***U***	***500***	***U***	***500***	***U***
Lead, Total	25	0.97	J	0.65	J	1	U	10	U	10	U	10	U
Magnesium, Total	35000	7880		7680		18200		**500000**		**513000**		**368000**	
Manganese, Total	300	**1050**		**527.5**		125.5		44.1		41.13		10	U
Mercury, Total	0.7	0.13	J	0.2	U	0.09	J	0.2	U	0.2	U	0.2	U
Nickel, Total	100	1.12	J	1.08	J	1.76	J	12.46	J	13.37	J	20	U
Potassium, Total	NC	3330		4440		17200		153000		154000		121000	
Selenium, Total	10	5	U	5	U	5	U	***50***	***U***	***50***	***U***	***50***	***U***
Silver, Total	50	0.4	U	0.4	U	0.4	U	4	U	4	U	4	U
Sodium, Total	20000	14400		17900		**100000**		**4730000**		**4800000**		**3570000**	
Thallium, Total	0.5	0.2	J	***1***	***U***	***1***	***U***	***10***	***U***	***10***	***U***	***10***	***U***
Vanadium, Total	NC	5	U	5	U	2.42	J	50	U	50	U	50	U
Zinc, Total	2000	10	U	10	U	10	U	100	U	100	U	100	U
GENERAL CHEMISTRY													
Chromium, Trivalent	NC	10	U	10	U	-		10	U	10	U	10	U
Chromium, Hexavalent	50	10	U	10	U	10	U	10	U	10	U	10	U
Cyanide, Total	200	5	U	3	J	5	U	5	U	5	U	5	U

All analytical results for groundwater in micrograms per liter (ug/L
Q = Laboratory Qualifier
An empty Q column indicates no laboratory qualifier has been ass
NC = No criteria established for this contaminant
U = Not detected at the reported detection limit for the sample.
J = The concentration given is an approximate value.
"-" = Not analyzed
SB-26 DUP is a duplicate sample of SB-26
GW-DUP is a duplicate sample of TWP-07
NY-AWQS: New York TOGS 111 Ambient Water Quality Standa
Reporting Limit Exceedes NYS AWQS
Concentration Exceeds NYS AWQS

Table 4
Quality Assurance/Quality Control Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

MATRIXNEWORLD
Engineering Progress

SAMPLE ID:	NYS AWQS	TRIP BLANK		TRIP BLANK		TRIP BLANK		GW FIELD BLANK		FIELD BLANK-SOIL	
LAB ID:		L2169771-04		L2170846-03		L2224285-09		L2169537-05		L2223664-06	
COLLECTION DATE:		11/19/2021		12/23/2021		5/9/2022		12/16/2021		5/5/2022	
ANALYTE	(ug/l)	Conc	Q	Conc	Q	Conc	Q	Conc	Q	Conc	Q
VOLATILE ORGANICS											
1,1,1,2-Tetrachloroethane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,1,1-Trichloroethane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,1,2,2-Tetrachloroethane	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane	1	***1.5***	***U***	***1.5***	***U***	***1.5***	***U***	***1.5***	***U***	***1.5***	***U***
1,1-Dichloroethane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,1-Dichloroethene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloropropene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,3-Trichlorobenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,3-Trichloropropane	0.04	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***
1,2,4,5-Tetramethylbenzene	5	2	U	2	U	2	U	2	U	2	U
1,2,4-Trichlorobenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-Trimethylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dibromo-3-chloropropane	0.04	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***
1,2-Dibromoethane	0.0006	***2***	***U***	***2***	***U***	***2***	***U***	***2***	***U***	***2***	***U***
1,2-Dichlorobenzene	3	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichloroethane	0.6	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloroethene, Total	NC	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichloropropane	1	***1***	***U***	***1***	***U***	***1***	***U***	***1***	***U***	***1***	***U***
1,3,5-Trimethylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichlorobenzene	3	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropene, Total	NC	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,4-Dichlorobenzene	3	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,4-Dioxane	NC	250	U	250	U	250	U	250	U	250	U
2,2-Dichloropropane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
2-Butanone	50	5	U	5	U	5	U	5	U	5	U
2-Hexanone	50	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone	NC	5	U	5	U	5	U	5	U	5	U
Acetone	50	5	U	5	U	5	U	5	U	2.4	J
Acrylonitrile	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
Benzene	1	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromobenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromochloromethane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromodichloromethane	50	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromoform	50	2	U	2	U	2	U	2	U	2	U
Bromomethane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Carbon disulfide	60	5	U	5	U	5	U	5	U	5	U
Carbon tetrachloride	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloroethane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloroform	7	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloromethane	NC	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,2-Dichloroethene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,3-Dichloropropene	0.4	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***
Dibromochloromethane	50	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Dibromomethane	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
Dichlorodifluoromethane	5	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***	***5***	***U***
Ethyl ether	NC	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Ethylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Hexachlorobutadiene	0.5	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***	***2.5***	***U***
Isopropylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Methyl tert butyl ether	10	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Methylene chloride	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
n-Butylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
n-Propylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Naphthalene	10	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
o-Chlorotoluene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
o-Xylene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Chlorotoluene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Diethylbenzene	NC	2	U	2	U	2	U	2	U	2	U
p-Ethyltoluene	NC	2	U	2	U	2	U	2	U	2	U
p-Isopropyltoluene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p/m-Xylene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
sec-Butylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Styrene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
tert-Butylbenzene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Tetrachloroethene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Toluene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,2-Dichloroethene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,3-Dichloropropene	0.4	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***	***0.5***	***U***
trans-1,4-Dichloro-2-butene	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Trichloroethene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	5	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Vinyl acetate	NC	5	U	5	U	5	U	5	U	5	U
Vinyl chloride	2	1	U	1	U	1	U	1	U	1	U
Xylenes, Total	NC	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U

All analytical results for groundwater in micrograms per liter (ug/L).
Q = Laboratory Qualifier
An empty Q column indicates no laboratory qualifier has been assigned.
NC = No criteria established for this contaminant
U = Not detected at the reported detection limit for the sample.
J = The concentration given is an approximate value.
NY-AWQS: New York TOGS 1.1.1 Glass GA Ambient Water Quality Standards criteria
Reporting Limit Exceedes NYS AWQS
Analyte detected exceeding NYS AWQS

Table 4
Quality Assurance/Quality Control Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

MATRIXNEWORLD
Engineering Progress

SAMPLE ID:	NYS AWQS	TRIP BLANK		TRIP BLANK		TRIP BLANK		GW FIELD BLANK		FIELD BLANK-SOIL	
LAB ID:		L2169771-04		L2170846-03		L2224285-09		L2169537-05		L2223664-06	
COLLECTION DATE:		11/19/2021		12/23/2021		5/9/2022		12/16/2021		5/5/2022	
ANALYTE	(ug/l)	Conc	Q	Conc	Q	Conc	Q	Conc	Q	Conc	Q
SEMIVOLATILE ORGANICS											
1,2,4,5-Tetrachlorobenzene	5	-	-	-	-	-	-	***10***	***U***	***10***	***U***
1,2,4-Trichlorobenzene	5	-	-	-	-	-	-	***5***	***U***	***5***	***U***
1,2-Dichlorobenzene	3	-	-	-	-	-	-	2	U	2	U
1,3-Dichlorobenzene	3	-	-	-	-	-	-	2	U	2	U
1,4-Dichlorobenzene	3	-	-	-	-	-	-	2	U	2	U
2,4,5-Trichlorophenol	NC	-	-	-	-	-	-	5	U	5	U
2,4,6-Trichlorophenol	NC	-	-	-	-	-	-	5	U	5	U
2,4-Dichlorophenol	1	-	-	-	-	-	-	***5***	***U***	***5***	***U***
2,4-Dimethylphenol	50	-	-	-	-	-	-	5	U	5	U
2,4-Dinitrophenol	10	-	-	-	-	-	-	***20***	***U***	***20***	***U***
2,4-Dinitrotoluene	5	-	-	-	-	-	-	***5***	***U***	***5***	***U***
2,6-Dinitrotoluene	5	-	-	-	-	-	-	***5***	***U***	***5***	***U***
2-Chlorophenol	NC	-	-	-	-	-	-	2	U	2	U
2-Methylphenol	NC	-	-	-	-	-	-	5	U	2	U
2-Nitroaniline	5	-	-	-	-	-	-	***5***	***U***	**2**	**U**
2-Nitrophenol	NC	-	-	-	-	-	-	10	U	5	U
3,3'-Dichlorobenzidine	5	-	-	-	-	-	-	***5***	***U***	***5***	***U***
3-Methylphenol/4-Methylphenol	NC	-	-	-	-	-	-	5	U	10	U
3-Nitroaniline	5	-	-	-	-	-	-	***5***	***U***	***5***	***U***
4,6-Dinitro-o-cresol	NC	-	-	-	-	-	-	10	U	5	U
4-Bromophenyl phenyl ether	NC	-	-	-	-	-	-	2	U	*5*	*U*
4-Chloroaniline	5	-	-	-	-	-	-	***5***	***U***	**10**	**U**
4-Chlorophenyl phenyl ether	NC	-	-	-	-	-	-	2	U	2	U
4-Nitroaniline	5	-	-	-	-	-	-	***5***	***U***	***5***	***U***
4-Nitrophenol	NC	-	-	-	-	-	-	10	U	2	U
Acetophenone	NC	-	-	-	-	-	-	5	U	***5***	***U***
Benzoic Acid	NC	-	-	-	-	-	-	50	U	10	U
Benzyl Alcohol	NC	-	-	-	-	-	-	2	U	2	U
Biphenyl	NC	-	-	-	-	-	-	2	U	2	U
Bis(2-chloroethoxy)methane	5	-	-	-	-	-	-	*5*	*U*	5	U
Bis(2-chloroethyl)ether	1	-	-	-	-	-	-	*2*	*U*	2	U
Bis(2-chloroisopropyl)ether	5	-	-	-	-	-	-	2	U	***2***	***U***
Bis(2-ethylhexyl)phthalate	5	-	-	-	-	-	-	1.7	J	***2***	***U***
Butyl benzyl phthalate	50	-	-	-	-	-	-	5	U	***2***	***U***
Carbazole	NC	-	-	-	-	-	-	2	U	**2**	**U**
Di-n-butylphthalate	50	-	-	-	-	-	-	5	U	***2***	***U***
Di-n-octylphthalate	50	-	-	-	-	-	-	5	U	50	U
Dibenzofuran	NC	-	-	-	-	-	-	2	U	2	U
Diethyl phthalate	50	-	-	-	-	-	-	5	U	2	U
Dimethyl phthalate	50	-	-	-	-	-	-	5	U	***5***	***U***
Hexachlorocyclopentadiene	5	-	-	-	-	-	-	***20***	***U***	***2***	***U***
Isophorone	50	-	-	-	-	-	-	5	U	2	U
n-Nitrosodi-n-propylamine	NC	-	-	-	-	-	-	5	U	3	U
NDPA/DPA	50	-	-	-	-	-	-	2	U	5	U
Nitrobenzene	0.4	-	-	-	-	-	-	***2***	***U***	**2**	**U**
p-Chloro-m-cresol	NC	-	-	-	-	-	-	2	U	*2*	*U*
Phenol	1	-	-	-	-	-	-	***5***	***U***	5	U
2-Chloronaphthalene	10	-	-	-	-	-	-	0.2	U	5	U
2-Methylnaphthalene	NC	-	-	-	-	-	-	0.1	U	2	U
Acenaphthene	20	-	-	-	-	-	-	0.1	U	2	U
Acenaphthylene	NC	-	-	-	-	-	-	0.1	U	5	U
Anthracene	50	-	-	-	-	-	-	0.1	U	5	U
Benzo(a)anthracene	0.002	-	-	-	-	-	-	***0.1***	***U***	2	U
Benzo(a)pyrene	0	-	-	-	-	-	-	***0.1***	***U***	2	U
Benzo(b)fluoranthene	0.002	-	-	-	-	-	-	***0.1***	***U***	***2***	***U***
Benzo(ghi)perylene	NC	-	-	-	-	-	-	0.1	U	***2***	***U***
Benzo(k)fluoranthene	0.002	-	-	-	-	-	-	***0.1***	***U***	***20***	***U***
Chrysene	0.002	-	-	-	-	-	-	**0.08**	**J**	2	U
Dibenzo(a,h)anthracene	NC	-	-	-	-	-	-	0.1	U	***2***	***U***
Fluoranthene	50	-	-	-	-	-	-	0.1	U	5	U
Fluorene	50	-	-	-	-	-	-	0.1	U	5	U
Hexachlorobenzene	0.04	-	-	-	-	-	-	***0.8***	***U***	2	U
Hexachlorobutadiene	0.5	-	-	-	-	-	-	***0.5***	***U***	2	U
Hexachloroethane	5	-	-	-	-	-	-	0.8	U	***2***	***U***
Indeno(1,2,3-cd)pyrene	0.002	-	-	-	-	-	-	***0.1***	***U***	2	U
Naphthalene	10	-	-	-	-	-	-	0.1	U	***10***	***U***
Pentachlorophenol	1	-	-	-	-	-	-	0.8	U	2	U
Phenanthrene	50	-	-	-	-	-	-	0.1	U	***5***	***U***
Pyrene	50	-	-	-	-	-	-	0.1	U	2	U

All analytical results for groundwater in micrograms per liter (ug/L).
Q = Laboratory Qualifier
An empty Q column indicates no laboratory qualifier has been assigned.
NC = No criteria established for this contaminant
"-" = Analyte not analyzed
U = Not detected at the reported detection limit for the sample.
J = The concentration given is an approximate value.
NY-AWQS: New York TOGS 1.1.1 Glass GA Ambient Water Quality Standards criteria
Reporting Limit Exceedes NYS AWQS
Analyte detected exceeding NYS AWQS

Table 4
Quality Assurance/Quality Control Analytical Results
North/West Battery Park City Resiliency Project
New York, New York
20-1152

MATRIXNEWORLD
Engineering Progress

SAMPLE ID:	NYS AWQS	TRIP BLANK		TRIP BLANK		TRIP BLANK		GW FIELD BLANK		FIELD BLANK-SOIL	
LAB ID:		L2169771-04		L2170846-03		L2224285-09		L2169537-05		L2223664-06	
COLLECTION DATE:		11/19/2021		12/23/2021		5/9/2022		12/16/2021		5/5/2022	
ANALYTE	(ug/l)	Conc	Q	Conc	Q	Conc	Q	Conc	Q	Conc	Q
CHLORINATED HERBICIDES											
2,4,5-T	35	-	-	-	-	-	-	2	U	2	U
2,4,5-TP (Silvex)	NC	-	-	-	-	-	-	2	U	2	U
2,4-D	50	-	-	-	-	-	-	10	U	10	U
ORGANOCHLORINE PESTICIDES											
4,4'-DDD	0.3	-	-	-	-	-	-	0.029	U	0.029	U
4,4'-DDE	0.2	-	-	-	-	-	-	0.029	U	0.029	U
4,4'-DDT	0.2	-	-	-	-	-	-	0.029	U	0.029	U
Aldrin	0	-	-	-	-	-	-	***0.014***	***U***	***0.014***	***U***
Alpha-BHC	0.01	-	-	-	-	-	-	***0.014***	***U***	***0.014***	***U***
Beta-BHC	0.04	-	-	-	-	-	-	**0.014**	**U**	**0.014**	**U**
Chlordane	0.05	-	-	-	-	-	-	***0.143***	***U***	***0.143***	***U***
cis-Chlordane	NC	-	-	-	-	-	-	0.014	U	0.014	U
Delta-BHC	0.04	-	-	-	-	-	-	0.014	U	0.014	U
Dieldrin	0.004	-	-	-	-	-	-	***0.029***	***U***	***0.029***	***U***
Endosulfan I	NC	-	-	-	-	-	-	0.014	U	0.014	U
Endosulfan II	NC	-	-	-	-	-	-	0.029	U	0.029	U
Endosulfan sulfate	NC	-	-	-	-	-	-	0.029	U	0.029	U
Endrin	0	-	-	-	-	-	-	***0.029***	***U***	***0.029***	***U***
Endrin aldehyde	5	-	-	-	-	-	-	0.029	U	0.029	U
Endrin ketone	5	-	-	-	-	-	-	0.029	U	0.029	U
Heptachlor	0.04	-	-	-	-	-	-	0.014	U	0.014	U
Heptachlor epoxide	0.03	-	-	-	-	-	-	0.014	U	0.014	U
Lindane	0.05	-	-	-	-	-	-	0.014	U	0.014	U
Methoxychlor	35	-	-	-	-	-	-	0.143	U	0.143	U
Toxaphene	0.06	-	-	-	-	-	-	***0.143***	***U***	***0.143***	***U***
trans-Chlordane	NC	-	-	-	-	-	-	0.014	U	0.014	U
POLYCHLORINATED BIPHENYLS BY											
Aroclor 1016	0.09	-	-	-	-	-	-	0.071	U	0.071	U
Aroclor 1221	0.09	-	-	-	-	-	-	0.071	U	0.071	U
Aroclor 1232	0.09	-	-	-	-	-	-	0.071	U	0.071	U
Aroclor 1242	0.09	-	-	-	-	-	-	0.071	U	0.071	U
Aroclor 1248	0.09	-	-	-	-	-	-	0.071	U	0.071	U
Aroclor 1254	0.09	-	-	-	-	-	-	0.071	U	0.071	U
Aroclor 1260	0.09	-	-	-	-	-	-	0.071	U	0.071	U
Aroclor 1262	0.09	-	-	-	-	-	-	0.071	U	0.071	U
Aroclor 1268	0.09	-	-	-	-	-	-	0.071	U	0.071	U
DISSOLVED METALS											
Aluminum, Total	NC	-	-	-	-	-	-	3.64	J	-	-
Antimony, Total	3	-	-	-	-	-	-	0.5	J	-	-
Arsenic, Total	25	-	-	-	-	-	-	0.5	U	-	-
Barium, Total	1000	-	-	-	-	-	-	0.5	U	-	-
Beryllium, Total	3	-	-	-	-	-	-	0.5	U	-	-
Cadmium, Total	5	-	-	-	-	-	-	0.2	U	-	-
Calcium, Total	NC	-	-	-	-	-	-	100	U	-	-
Chromium, Total	50	-	-	-	-	-	-	1	U	-	-
Cobalt, Total	NC	-	-	-	-	-	-	0.5	U	-	-
Copper, Total	200	-	-	-	-	-	-	1	U	-	-
Iron, Total	300	-	-	-	-	-	-	50	U	-	-
Lead, Total	25	-	-	-	-	-	-	1	U	-	-
Magnesium, Total	35000	-	-	-	-	-	-	70	U	-	-
Manganese, Total	300	-	-	-	-	-	-	1	U	-	-
Mercury, Total	0.7	-	-	-	-	-	-	0.2	U	-	-
Nickel, Total	100	-	-	-	-	-	-	2	U	-	-
Potassium, Total	NC	-	-	-	-	-	-	100	U	-	-
Selenium, Total	10	-	-	-	-	-	-	5	U	-	-
Silver, Total	50	-	-	-	-	-	-	0.4	U	-	-
Sodium, Total	20000	-	-	-	-	-	-	72.6	J	-	-
Thallium, Total	0.5	-	-	-	-	-	-	***1***	***U***	-	-
Vanadium, Total	NC	-	-	-	-	-	-	5	U	-	-
Zinc, Total	2000	-	-	-	-	-	-	10	U	-	-
TOTAL METALS											
Aluminum, Total	NC	-	-	-	-	-	-	10	U	100	U
Antimony, Total	3	-	-	-	-	-	-	***4***	***U***	***50***	***U***
Arsenic, Total	25	-	-	-	-	-	-	0.5	U	**2**	J
Barium, Total	1000	-	-	-	-	-	-	**0.2**	J	10	U
Beryllium, Total	3	-	-	-	-	-	-	0.5	U	***5***	***U***
Cadmium, Total	5	-	-	-	-	-	-	0.2	U	***5***	***U***
Calcium, Total	NC	-	-	-	-	-	-	100	U	42	J
Chromium, Total	50	-	-	-	-	-	-	1	U	10	U
Cobalt, Total	NC	-	-	-	-	-	-	0.5	U	20	U
Copper, Total	200	-	-	-	-	-	-	1	U	10	U
Iron, Total	300	-	-	-	-	-	-	50	U	**11**	J
Lead, Total	25	-	-	-	-	-	-	1	U	10	U
Magnesium, Total	35000	-	-	-	-	-	-	70	U	100	U
Manganese, Total	300	-	-	-	-	-	-	1	U	10	U
Mercury, Total	0.7	-	-	-	-	-	-	0.2	U	0.4	U
Nickel, Total	100	-	-	-	-	-	-	2	U	25	U
Potassium, Total	NC	-	-	-	-	-	-	100	U	2500	U
Selenium, Total	10	-	-	-	-	-	-	5	U	***10***	***U***
Silver, Total	50	-	-	-	-	-	-	0.4	U	7	U
Sodium, Total	20000	-	-	-	-	-	-	100	U	2000	U
Thallium, Total	0.5	-	-	-	-	-	-	***1***	***U***	***20***	***U***
Vanadium, Total	NC	-	-	-	-	-	-	5	U	10	U
Zinc, Total	2000	-	-	-	-	-	-	10	U	50	U
GENERAL CHEMISTRY											
Chromium, Trivalent	NC	-	-	-	-	-	-	10	U	-	-
Chromium, Hexavalent	50	-	-	-	-	-	-	10	U	10	U
Cyanide, Total	200	-	-	-	-	-	-	5	U	5	U

All analytical results for groundwater in micrograms per liter (ug/L).
Q = Laboratory Qualifier
An empty Q column indicates no laboratory qualifier has been assigned.
NC = No criteria established for this contaminant
"-" = Analyte not analyzed
U = Not detected at the reported detection limit for the sample.
J = The concentration given is an approximate value.
NY-AWQS: New York TOGS 1.1.1 Glass GA Ambient Water Quality Standards criteria
Reporting Limit Exceedes NYS AWQS
Analyte detected exceeding NYS AWQS

Table 5
Permanent Monitoring Well
Groundwater Elevation Data
North/West Battery Park City Resiliency Project
New York, New York
20-1152

MATRIXNEWORLD
Engineering Progress

Well Name	Total Depth (ft-bgs)	Screen Interval (ft-bgs)	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)
SB-13	16.80	10-20	11.25	10.20	1.05
SB-16	16.50	10-20	12.42	8.70	3.72
SB-17	20.00	7-17	12.45	14.10	-1.65
SB-20	16.50	10-20	9.77	10.10	-0.33
SB-21	17.70	10-20	9.81	10.90	-1.09
SB-24	17.05	8-18	12.39	11.10	1.29
SB-26	18.60	8-18	12.38	3.00	9.38
SB-29	20.00	10-20	11.80	9.50	2.30

Note: TWP-07 was installed as a temporary well and not surveyed; therefore, it has not been included in this table.

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APPENDICES

MATRIXNEWORLD
Engineering Progress

APPENDIX A

Soil Boring Logs and Well Logs

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Engineering Progress

BORING LOG

BORING NO.: **BH-05A**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **Battery Park City Flood Resiliency Project** DATE: **3/30/22**

PROJECT LOCATION: **Manhattan, NY** BORING LOCATION: **South Cove Park, South End Ave**

DRILLING EQUIPMENT: **CME 55** ANGLE: **-90.0** DIR.: **------** ELEV.: **10.4** DATUM: **NAVD83**

DRILLING CONTRACTOR: **Craig Geotechnical Drilling Co. Inc.** DRILLER: **R. Warden** INSPECTOR: **D. Alia**

CASING and HAMMER				SAMPLER and HAMMER				GROUNDWATER LEVELS			
Type	I.D.	Weight	Drop	Type	I.D.	Weight	Drop	Date	Time	Depth	Casing Depth
Auto		**140 lbs**	**30"**	**AUTO**		**140 lbs**	**30"**				
FJ Steel	**4"**			**HA**							
				SS	**1 3/8"**						
				NX	**2"**						

Depth Feet (Elev.)	CASING Blows/ Foot	SAMPLE No.	Type	Depth Feet	Corrected Blows/6" (REC. %) [RQD %]	Graphic Symbol	Description Of Material	Laboratory Tests
		S-1	HA	0-2			Tan- Gray cmf SAND, little Gravel, trace Plastic, trace Silt, dry (FILL)	
		S-2	HA	2-4			Dark Brown mf SAND, little fine Gravel, trace Silt, trace Plastic, trace Brick, dry (FILL)	
5		S-3	HA	4-6			Black- Brown mf SAND, trace fine Gravel, trace Silt, trace Plastic, dry (FILL)	
		S-4	SS	6-8	17-57-66-74 (75%)		Gray ROCK, Wood chips, odor, PID 12ppm, dry (FILL)	
		S-5	SS	8-10	22-94-77-23 (92%)		Top 12" Wood, Staining 3" span For Environmental, sheen, odor, PID 57.7 ppm (FILL)	SB-05A (8-10) TCL/TAL+30; TPH; Cyanide; Hex. Chromium
10		S-6	SS	10-12	17-26-22-33 (96%)		Bottom 10" Green/Gray fine SAND and fine GRAVEL, trace Silt, dry (FILL/SP) Wood w/ Staining, odor, PID 17 ppm	
15		S-7	SS	15-17	46-37-31-29 (21%)		Gray cf GRAVEL, some cmf Sand, trace Silt, trace Wood, wet, odor, PID 21 ppm (FILL) (GW-GM) WC: 19.3%, Gravel: 57%, Sand: 35%, Fines: 8%	Sieve
20		S-8	SS	20-22	12-14-18-18 (96%)		Wood, wet, odor, PID 27.6 ppm + Cannot Collect in Jar Without Splitting (FILL)	COMP SB-05A TCLP; RCRA Characteristics
							Terminated at 24' due to continued presence of wood	
(-13.6)							Bottom of Borehole @ 24 ft bgs	

NEWORLD NO GROUT 20-1152 - BORING LOGS 8-2-22.GPJ MATRIX EGS.GDT 8/2/22

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **BH-08**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **3/16/22 - 3/16/22**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **Round About on Albany St** DRILLER: **R. Warden**

DRILLING CONTRACTOR: **Craig Geotechnical Drilling Co. Inc.** LOGGED BY: **JT**

DRILLING EQUIPMENT: **CME 850**

DRILLING METHOD: **SPT Hammer**

BOREHOLE DEPTH (ft): **10** BOREHOLE DIAMETER (in): **4**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
1		Brown Fine Sand, Trace Silt, Trace Glass, Trace Brick (SM-Fill) Dry; No Odor; No Sheen; No Staining					
2							
3		SAA Dry; No Odor; No Sheen; No Staining					
4							
5		Grey and Brown Mixed Medium Fine Sand Moist; No Odor; No Sheen; No Staining					
6							
7		Grey Clay Silt, Trace Brick Moist; No Odor; No Sheen; No Staining					
8							
9		Light Brown Gravel, 7" Black Tar Material, Trace Silty Clay Moist; Yes Odor; Yes Sheen; Yes Staining	BH-08 (8-10)	14:07	1.6		TCL/TAL+30; Cyanide; Hexavalent Chromium
10							

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-01**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **5/09/22 - 5/09/22**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **North Moore St & Greenwich St** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **EW**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **4** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Concrete No Odor; No Sheen; No Staining	SB-01 (0-2)	0855	0.0		TCL VOCs+10
		Brown medium-fine sand, some gravel, trace brick, trace wood Dry; No Odor; No Sheen; No Staining	COMP SB-01 (0-4)	0940			TCL SVOCs+20; TAL Metal; TCL Pesticides; TCL PCBs; Chlorinated Herbicides; Cyanide; Hexavalent Chromium
		Tan and brown fine sand, some gravel Dry; No Odor; No Sheen; No Staining					
		Refusal No Odor; No Sheen; No Staining	COMP (SB-01)	0945			TCLP; RCRA Characterisitics

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-02**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **5/05/22 - 5/05/22**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **North Moore St** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **EW**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **4.5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Concrete No Odor; No Sheen; No Staining	SB-02 (0-2)	1050	0.0		TCL VOCs+10
		Brown coarse-medium-fine sand, some gravel, trace brick Dry; No Odor; No Sheen; No Staining	COMP SB-02 (0-4.5)	1055			TCL SVOCs+20; TAL Metal; TCL Pesticides; TCL PCBs; Chlorinated Herbicides; Cyanide; Hexavalent Chromium
		Reddish brown fine sand, little gravel Dry; No Odor; No Sheen; No Staining	COMP (SB-02 SB-03)	1300			TCLP; RCRA Characterisitics
		Refusal No Odor; No Sheen; No Staining					

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-03**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **5/05/22 - 5/05/22**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **North Moore St** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **EW**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Concrete No Odor; No Sheen; No Staining	SB-03 (0-2)	1240	0.0		TCL VOCs+10
		Brown coarse-medium-fine sand, little gravel, trace brick Dry; No Odor; No Sheen; No Staining	COMP SB-03 (0-5)	1250			TCL SVOCs+20; TAL Metal; TCL Pesticides; TCL PCBs; Chlorinated Herbicides; Cyanide; Hexavalent Chromium TCLP; RCRA Characterisitics
5		Brown medium-fine sand, some gravel, trace brick Dry; No Odor; No Sheen; No Staining	COMP (SB-02 SB-03)	1300			

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-04**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **5/06/22 - 5/06/22**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **North Moore St & West St** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **EW**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **4** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Concrete	SB-04 (0-2)	0930	0.0		TCL VOCs+10
		Brown and tan coarse-medium-fine sand. some gravel, trace brick Dry; No Odor; No Sheen; No Staining	COMP SB-04 (0-4)	0935			TCL SVOCs+20; TAL Metal; TCL Pesticides; TCL PCBs; Chlorinated Herbicides; Cyanide; Hexavalent Chromium
		Refusal Dry; No Odor; No Sheen; No Staining	COMP (SB-04 SB-05)	1155			TCLP; RCRA Characterisitics

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-05**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **5/06/22 - 5/06/22**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **West St planter** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **EW**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Tan medium-fine sand Dry; No Odor; No Sheen; No Staining	SB-05 (0-2)	1145	0.0		TCL VOCs+10
		Brown coarse-medium-fine sand, some gravel, trace brick, metal, tile Dry; No Odor; No Sheen; No Staining	COMP SB-05 (0-5)	1150			TCL SVOCs+20; TAL Metal; TCL Pesticides; TCL PCBs; Chlorinated Herbicides; Hexavalent Chromium
5			COMP (SB-04 SB-05)	1155			TCLP; RCRA Characterisitics

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-06**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **5/09/22 - 5/09/22**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **West St & Harrison St North** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **EW**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in):

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Concrete	SB-06 (0-2)	1230	0.0		TCL VOCs+10
		Brown coarse-medium-fine sand, some gravel, trace brick Dry; No Odor; No Sheen; No Staining	COMP SB-06 (0-5)	1235			TCL SVOCs+20; TAL Metal; TCL Pesticides; TCL PCBs; Chlorinated Herbicides; Cyanide; Hexavalent Chromium TCLP; RCRA Characterisitics
5		Tan fine sand, little gravel Dry; No Odor; No Sheen; No Staining	COMP (SB-06 SB-07)	1240			

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-07**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **5/09/22 - 5/09/22**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **West St & Harrison St South planter** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **EW**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **22** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth
5/09/22		**9.9**	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Tan medium-fine sand, some gravel Dry; No Odor; No Sheen; No Staining	SB-07 (0-2)	1030	0.0		TCL VOCs+10
5		Brown corase-medium-fine sand, some gravel, trace brick Dry; No Odor; No Sheen; No Staining	SB-07 (8-10)	1105			TCL VOCs+10
		Brown silt, some sand, little gravel Dry; No Odor; No Sheen; No Staining					
10		Brown medium-fine sand, little gravel Wet; No Odor; No Sheen; No Staining	TWP-07	1150			TCL/TAL+30; Cyanide; Hexavalent Chromium; Dissolved Metals
		Brown silt, little sand Wet; No Odor; No Sheen; No Staining	GW-DUP	1200			TCL/TAL+30; Cyanide; Hexavalent Chromium; Dissolved Metals
15		Brown medium-fine sand, little gravel Wet; No Odor; No Sheen; No Staining	COMP SB-07 (0-20)	1110			TCLP; RCRA Characterisitics
		Grey silt and sand, some gravel Wet; No Odor; No Sheen; No Staining	COMP (SB-06 SB-07)	1240			TCLP; RCRA Characterisitics
20							

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-08**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **5/06/22 - 5/06/22**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **Hudson River Greenway Landscaped Area** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **EW**

DRILLING EQUIPMENT: **Hand Auger**

DRILLING METHOD:

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in):

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Top soil Dry; No Odor; No Sheen; No Staining	SB-08 (0-2)	1230	0.0		TCL VOCs+10
		Brown coarse-medium-fine sand, some gravel, trace brick Dry; No Odor; No Sheen; No Staining	COMP SB-08 (0-5)	1240			TCL SVOCs+20; TAL Metal; TCL Pesticides; TCL PCBs; Chlorinated Herbicides; Cyanide; Hexavalent Chromium TCLP; RCRA Characterisitics
5			COMP (SB-08)	1245			

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-09**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **5/10/22 - 5/10/22**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **Hudson River Greenway Landscaped Area** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **EW**

DRILLING EQUIPMENT: **Hand Auger**

DRILLING METHOD:

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in):

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Brown top soil, some fine sand, trace gravel Dry; No Odor; No Sheen; No Staining	SB-09 (0-2)	0900	0.0		TCL VOCs+10
			COMP SB-09 (0-5)	0910			TCL SVOCs+20; TAL Metal; TCL Pesticides; TCL PCBs; Chlorinated Herbicides; Cyanide; Hexavalent Chromium TCLP; RCRA Characterisitics
5		Brown medium-fine sand, some gravel, trace brick Dry; No Odor; No Sheen; No Staining	COMP (SB-09 SB-10)	0945			

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-10**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **5/10/22 - 5/10/22**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **Hudson River Greenway Landscaped Area** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **EW**

DRILLING EQUIPMENT: **Hand Auger**

DRILLING METHOD:

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in):

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Brown top soil,some medium-fine sand Dry; No Odor; No Sheen; No Staining	SB-10 (0-2)	0930	0.0		TCL VOCs+10
			COMP SB-10 (0-5)	0940			TCL SVOCs+20; TAL Metal; TCL Pesticides; TCL PCBs; Chlorinated Herbicides; Cyanide; Hexavalent Chromium TCLP; RCRA Characterisitics
		Brown medium-fine sand, some gravel trace brick Dry; No Odor; No Sheen; No Staining	COMP (SB-09 SB-10)	0945			
5			SOIL DUP	0950			TCL/TAL+30; Chlorinated Herbicides; Cyanide; Hexavalent Chromium

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-11**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **12/10/21 - 12/10/21**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **South of North Cove** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **AKC**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Gray/dark gray, Asphalt/concrete paver			0		
		Light brown/tan, F-M sand, trace fine gravel Slightly moist;	SB-11 1-3'	11:45	0		TCL/TAL+30; Cyanide; Hexavalent Chromium
					0		
5							

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-12**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **12/13/21 - 12/13/21**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **Southeast of SB-11** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **AKC**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Gray, concrete/asphalt pavers			0		
		Brown, F-M sand, trace fine gravel, trace brick	SB-12 1-3'	11:30	0		TCL/TAL+30; Cyanide; Hexavalent Chromium
					0		
5							

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-13**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **12/10/21 - 12/10/21**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **Southwest corner of North Cove** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **AKC**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **20** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth
12/10/21		**8.5**	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Dark brown, silty sand, trace roots			0		
		Brown, F-C sand, trace gravel					
		Tan, Fine sand, trace fine gravel	SB-13 1-3'	09:15	0	Dup taken at 09:30	TCL/TAL+30; Cyanide; Hexavalent Chromium
		Light brown, Fine sand, some silt, trace fine gravel			0		
5		Tan/brown, F-C sand, little fine gravel	SB-13 5.5-7.5'	09:45	0		TCL/TAL+30; Cyanide; Hexavalent Chromium
		Tan, F-M sand, trace fine gravel, trace silt Wet;			0		
		Light brown, F-M sand, some silt Wet;			0		
10		Light brown, F-C sand, little gravel, trace silt Wet;			0		
15		Light brown, F-M sand, trace fine gravel Wet;			0		
		Light gray, Fine sand, some silt, trace clay Wet;			0		
20							

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

BORING NO.: **SB-13**

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-14**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **12/10/21 - 12/10/21**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **Northeast of SB-15** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **AKC**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Concrete/Asphalt			0		
		Brown, F-M sand, trace fine gravel	SB-14 2-4'	11:00	0		TCL/TAL+30; Cyanide; Hexavalent Chromium
5					0		

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-15**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **12/13/21 - 12/13/21**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **North of SB-16** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **AKC**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Dark brown, F-C sand, trace fine gravel, trace roots			0		
		Brown/tan, F-C sand, trace gravel	SB-15 1-3'	10:30	0		TCL/TAL+30; Cyanide; Hexavalent Chromium
		Light brown, F-C sand, trace gravel, trace cobbles			0		
5							

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-16**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **12/13/21 - 12/13/21**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **West of Rockefeller Park** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **AKC**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **20** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth
12/13/21		**9.0**	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Gray/dark gray, Concrete/asphalt pavers			0		
		Brown, Fine sand, trace fine gravel	SB-16 1.5-4.5'	09:00	0		TCL/TAL+30; Cyanide; Hexavalent Chromium
5					0		
		Light brown, F-C sand, trace gravel			0		
		Gray/brown, F-C sand, some F-C gravel	SB-16 6.5-8.5'	09:30	0		TCL/TAL+30; Cyanide; Hexavalent Chromium
		Brown, F-C sand, little F-C gravel					
		Light brown, F-M sand, trace gravel Wet;	▼		0		
10		Tan/light brown, F-M sand, trace gravel Wet;			0		
15		Light brown/gray, F-M sand, trace gravel Wet;			0		
		Gray, F-C gravel, trace sand Wet;			0		
20							

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

BORING NO.: **SB-16**

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-17**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **12/09/21 - 12/09/21**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **North of SB-18 East of River Terrace** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **PY**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **20** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth
12/09/21		**14.1**	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Concrete/Asphalt pavers			0		
		Brown, fine sand, little fine gravel, little medium sand, trace silt	SB-17 1-3.5'	11:15	0		TCL/TAL+30; Cyanide; Hexavalent Chromium
		Dark brown/grey, silty sand, little fine gravel, little F-C sand, trace brick			0		
5							
10							
15							
20							

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-18**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **12/09/21 - 12/09/21**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **East of River Terrace** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **PY**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **20** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth
12/09/21		**N/A**	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Concrete			0		
		Tan/brown, F-M sand and shattered gravel	SB-18 1-4'	09:45	0		TCL/TAL+30; Cyanide; Hexavalent Chromium
		Tan/grey, shattered cobble					
		Tan/brown, F-M sand, trace fine gravel					
					0		
5		Tan/brown, F-M sand			0		
10		Tan/brown, F-M sand			0		
			SB-18 11-13'	10:00	0		TCL/TAL+30; Cyanide; Hexavalent Chromium
		Tan/brown, F-M sand Moist;					
					0		
		Tan/brown, F-M sand Wet;					
15		Brown, F-M sand, trace fine gravel Wet;			0		
20							

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-19**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **12/09/21 - 12/09/21**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **South of SB-16 East of River Terrace** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **PY**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Concrete	SB-19 1-3	08:30	0 0		TCL/TAL+30; Cyanide; Hexavalent Chromium
		Brown, F-M sand, little brick, trace fine gravel			0		
5							

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-20**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **12/06/21 - 12/06/21**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **North of SB-21 by Rockwfeller Playground** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **PY**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **20** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth
12/06/21		**9.8**	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Asphalt/concrete			0		
		Brown mf sand					
		Brownish reddish silty sand, some fine gravel Slighly moist;	SB-20 1-3'	11:30	0		TCL/TAL+30; Cyanide; Hexavalent Chromium
		Shattered cobble					
		Tan fine sand					
					0		
5							
		Brown fine sand Slightly moist;			0		
		Tan, brown-grey shattered gravel and silty sand Slightly moist;					
		Brown mf sand Moist;	SB-20 9-11'	12:00	0		TCL/TAL+30; Cyanide; Hexavalent Chromium
10							
		Tan-brown mf sand Wet;					
					0		
					0		
15							
		Brown mf sand Wet;			0		
					0		
20							

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

BORING NO.: **SB-20**

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-21**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **12/06/21 - 12/06/21**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **West of River Terrace** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **PY**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **20** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth
12/06/21		**10.0**	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Asphalt/concrete			0		
		Brown mf sand Slightly moist;	SB-21 1-3'	09:00	0		TCL/TAL+30; Cyanide; Hexavalent Chromium
		Dark brown-grey silty clay					
		Brown mf sand w/ little fine gravel			0		
5		Styrofoam					
		Brown mf sand, trace fine gravel			0		
		Brown mf sand, trace fine gravel Slightly moist;			0		
		Brown-grey silty sand Moist;					
10		Brown mf sand and fine gravel Slightly moist;					
		Brown mf sand Moist;	SB-21 10-12'	09:30	0		TCL/TAL+30; Cyanide; Hexavalent Chromium
		Brown mf sand Wet;			0		
15		Brown mf sand, trace silt Wet;			0		
					0		
20		Brown-grey mf sand Wet;					

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-22**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **3/01/22 - 3/01/22**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **West of North End Ave** DRILLER: **Mike**

DRILLING CONTRACTOR: **Craig Geotechnical Drilling Co. Inc.** LOGGED BY: **JT**

DRILLING EQUIPMENT: **CME-850**

DRILLING METHOD: **SPT Hammer**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **4**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth
3/02/22		**10.0**	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
1		Dark Brown Fine Sand, Trace Brick, Trace Glass, Trace Silty Dry; No Odor; No Sheen; No Staining	SB-22 (0-2)	9:15	0.0		TCL/TAL+30; Cyanide; Hexavalent Chromium TCLP; RCRA Characterisitics
2			SB-22 (Comp) (0-5)	11:20	0.0		
3		Grey Fine Sand, Little Gravel, Trace Silt Dry; No Odor; No Sheen; No Staining					
4							
5		Grey Medium Fine Sand, Little Medium Fine Gravel, Trace Silt Dry; No Odor; No Sheen; No Staining					

▼

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-23**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **12/03/21 - 12/03/21**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **West of SB-24** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **PY**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
0		Asphalt/concrete pavers			0		
1		Brown, F-M sand, little brick, little fine gravel	SB-23 1-3'	12:00	0		TCL/TAL+30; Cyanide; Hexavalent Chromium
2		Tan/brown, F-M sand, trace fine gravel					
3					0		
4							
5							

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-24**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **12/03/21 - 12/03/21**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **South of North End Ave** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **PY**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **20** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth
12/03/21		**12.5**	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Asphalt/concrete pavers			0		
		Brown, F-C sand, some gravel	SB-24 1-4'	10:00	0		TCL/TAL+30; Cyanide; Hexavalent Chromium
		Tan/brown, F-M sand, little fine gravel			0		
5		Tan/grey, F-C sand, little fine gravel			0		
		Tan, F-C sand, little fine gravel			0		
10		Grey, F-C sand, some fine gravel Moist;	SB-24 10-12'	10:30	0		TCL/TAL+30; Cyanide; Hexavalent Chromium
		Grey, F-M sand Moist; Organic odor	▼		0		
15		Grey, F-M sand Wet; Organic odor			0		
20							

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-25**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **12/02/21 - 12/02/21**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **West of SB-26** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **AKC**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Asphalt/concrete pavers			0		
		Brown, F-C sand, little silt, trace gravel			0		
1			SB-25 1-3'	12:00	0		TCL/TAL+30; Cyanide; Hexavalent Chromium
2							
3					0		
4							
5		Light gray, cobbles					

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-26**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **12/02/21 - 12/02/21**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **South of South End Ave** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **AKC**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **20** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth
12/02/21		**12.5**	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Asphalt/concrete pavers			8.5		
		Brown, F-C sand, little gravel Slightly moist; 2" of brick at 2.0", trace leather	SB-26 1-3'	10:30	0		TCL/TAL+30; Cyanide; Hexavalent Chromium
		Light brown, fine sand Slightly moist;					
5		Brown, F-M sand, little silt Moist;			0		
		Light brown, F-M sand					
10		Tan, Fine sand Moist;	SB-26 10-12'	11:00	0		TCL/TAL+30; Cyanide; Hexavalent Chromium
			▼		0		
		Tan, Fine sand Wet;					
15		Tan, F-M sand Wet;			0		
		Gray, F-M sand Wet;					
20							

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-27**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **12/02/21 - 12/02/21**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **West end of 3rd Pl** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **AKC**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Asphalt/concrete pavers			0		
		Brown, F-C sand, little silt Slightly moist;			0		
1			SB-27 1-3'	8:30	0		TCL/TAL+30; Cyanide; Hexavalent Chromium
		Brown, Fine sand, little silt Slightly moist;					
2							
		Brown, F-C sand, some silt Slightly moist;					
3					0		
		Brown/red, F-M sand, trace brick Slightly moist; Cobbles in bottom 2"					
4							
5							

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-28**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **12/01/21 - 12/01/21**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **Between SB-27/SB-28** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **PY**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Asphalt/concrete			0		
		Brown silty sands, little cmf and fine gravel, trace silt Trace brick fragments	SB-28 1-3'	12:30	0		
1					0		TCL/TAL+30; Cyanide; Hexavalent Chromium
2							
3					0		
4							
5		Dark brown silty sands, little fine gravel, trace silt Trace wood					

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-29**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **12/01/21 - 12/01/21**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **West end of 2nd Pl** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **PY**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **20** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth
12/01/21		**12.7**	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Asphlat/concrete			0.5		
		Brown silty sand and fine sand, trace fine gravel			0		
			SB-29 1-3'	11:00	0		TCL/TAL+30; Cyanide; Hexavalent Chromium
		Brown silty sand and fine sand, little fine gravel			0		
		Shattered cobble					
		Brown silty sand, little fine gravel					
5					0		
		Tan, tan-grey mf sands Slighty moist;					
					0		
		Grey mf sands Moist;					
10			SB-29 10-12'	11:30	0		TCL/TAL+30; Cyanide; Hexavalent Chromium
		Black, grey-brown mf sands Moist;					
		Grey brown mf sands Very moist;			0		
		Brown grey mf sands Wet;					
15							
		Brown silty sand Wet;					
		Brown, brown grey mf sands Wet;			0		
20							

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-30**

SHEET **1** OF **1**

PROJECT NO.: **20-1152** PROJECT: **North & West Battery Park City Resilience Project** DATE: **12/01/21 - 12/01/21**

PROJECT LOCATION: **New York, NY** CLIENT: **AECOM Usa, Inc./Battery Park City Authority**

BORING LOCATION: **West end of 1st Pl** DRILLER: **Nick T.**

DRILLING CONTRACTOR: **Eastern** LOGGED BY: **PY**

DRILLING EQUIPMENT: **6610DT Geoprobe**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

GROUNDWATER LEVELS			
Date	Time	Depth	Casing Depth

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Unit	Laboratory Tests
		Asphalt/concrete			8.1		
		Brown fine sands, trace silt and fine gravel			0		
1			SB-30 1-3'	09:45	0		TCL/TAL+30; Cyanide; Hexavalent Chromium
2							
3							
4							
		Tan mf sands			0		
5							

ENVI BORING LOG 20-1152.GPJ MATRIX EGS.GDT 8/25/22

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

APPENDIX B

Full Laboratory Deliverable Package

ANALYTICAL REPORT

Lab Number:	L2165829
Client:	Matrix New World Engineering, Inc. 333 West 39th Street, Second Floor New York City, NY 10018
ATTN:	Brian Crespi
Phone:	(212) 324-4251
Project Name:	BATTERY PARK
Project Number:	20-1152
Report Date:	12/16/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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

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

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2165829
Report Date: 12/16/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2165829-01	SB30 1-3'	SOIL	LOWER WEST SIDE MANHATTAN	12/01/21 09:45	12/01/21
L2165829-02	SB29 1-3'	SOIL	LOWER WEST SIDE MANHATTAN	12/01/21 11:00	12/01/21
L2165829-03	SB29 10-12'	SOIL	LOWER WEST SIDE MANHATTAN	12/01/21 11:15	12/01/21
L2165829-04	SB28 1-3'	SOIL	LOWER WEST SIDE MANHATTAN	12/01/21 12:30	12/01/21

Project Name:	BATTERY PARK	**Lab Number:**	L2165829
Project Number:	20-1152	**Report Date:**	12/16/21

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: BATTERY PARK **Lab Number:** L2165829
Project Number: 20-1152 **Report Date:** 12/16/21

Case Narrative (continued)

Report Submission

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

Semivolatile Organics

The WG1581435-2/-3 LCS/LCSD recoveries, associated with L2165829-01, -03, and -04, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

The WG1581861-2/-3 LCS/LCSD recoveries, associated with L2165829-02, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

PCBs

The surrogate recoveries for the WG1581452-1 Method Blank, associated with L2165829-01 and -03, are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (17%17%) and decachlorobiphenyl (18%20%). The associated samples are non-detect and have acceptable surrogate recoveries; therefore, no further actions were taken.

Total Metals

L2165829-01 through -04: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1580832-3 MS recoveries for aluminum (381%), calcium (149%) and iron (0%), performed on L2165829-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1580832-3 MS recovery, performed on L2165829-01, is outside the acceptance criteria for manganese (140%). A post digestion spike was performed and was within acceptance criteria.

The WG1580832-4 Laboratory Duplicate RPDs for arsenic (33%), calcium (24%), nickel (28%) and zinc (21%),

Project Name: BATTERY PARK **Lab Number:** L2165829
Project Number: 20-1152 **Report Date:** 12/16/21

Case Narrative (continued)

performed on L2165829-01, are outside the acceptance criteria. The elevated RPDs have been attributed to the non-homogeneous nature of the native sample.
The WG1580833-4 Laboratory Duplicate RPD for mercury (24%), performed on L2165829-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

Cyanide, Total
The WG1580935-2 LCS recovery for cyanide, total (79%), associated with L2165829-04, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.
The WG1580187-4/-5 MS/MSD recoveries, performed on L2165829-01, are outside the acceptance criteria for cyanide, total (130%/130%); however, the associated LCS recovery is within criteria. No further action was taken.

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: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 12/16/21

ORGANICS

VOLATILES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-01
Client ID: SB30 1-3'
Sample Location: LOWER WEST SIDE MANHATTAN

Date Collected: 12/01/21 09:45
Date Received: 12/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/11/21 01:19
Analyst: MKS
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	0.26	J	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	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.76	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: BATTERY PARK **Lab Number:** L2165829

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-01 Date Collected: 12/01/21 09:45

Client ID: SB30 1-3' Date Received: 12/01/21

Sample Location: LOWER WEST SIDE MANHATTAN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
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	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.71	1
Acrylonitrile	ND		ug/kg	4.4	1.2	1

Project Name: BATTERY PARK **Lab Number:** L2165829

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-01 Date Collected: 12/01/21 09:45

Client ID: SB30 1-3' Date Received: 12/01/21

Sample Location: LOWER WEST SIDE MANHATTAN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	87	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	89		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-02
Client ID: SB29 1-3'
Sample Location: LOWER WEST SIDE MANHATTAN

Date Collected: 12/01/21 11:00
Date Received: 12/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/11/21 01:40
Analyst: MKS
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	0.22	J	ug/kg	1.6	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	0.28	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	0.72	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
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-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	0.30	J	ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.56	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	0.60	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

Project Name: BATTERY PARK **Lab Number:** L2165829

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-02 Date Collected: 12/01/21 11:00

Client ID: SB29 1-3' Date Received: 12/01/21

Sample Location: LOWER WEST SIDE MANHATTAN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
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
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.95	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.2	0.68	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: BATTERY PARK **Lab Number:** L2165829

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-02 Date Collected: 12/01/21 11:00

Client ID: SB29 1-3' Date Received: 12/01/21

Sample Location: LOWER WEST SIDE MANHATTAN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	83	36.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.18	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	90		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-03
Client ID: SB29 10-12'
Sample Location: LOWER WEST SIDE MANHATTAN

Date Collected: 12/01/21 11:15
Date Received: 12/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/11/21 02:00
Analyst: MKS
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.8	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	0.27	J	ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.4	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.36	1
Tetrachloroethene	ND		ug/kg	0.68	0.27	1
Chlorobenzene	ND		ug/kg	0.68	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.94	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.68	0.23	1
Bromodichloromethane	ND		ug/kg	0.68	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.68	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.68	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.68	0.22	1
Bromoform	ND		ug/kg	5.4	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.68	0.22	1
Benzene	ND		ug/kg	0.68	0.22	1
Toluene	ND		ug/kg	1.4	0.74	1
Ethylbenzene	ND		ug/kg	1.4	0.19	1
Chloromethane	ND		ug/kg	5.4	1.3	1
Bromomethane	ND		ug/kg	2.7	0.79	1
Vinyl chloride	ND		ug/kg	1.4	0.46	1
Chloroethane	ND		ug/kg	2.7	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.19	1

Project Name: BATTERY PARK **Lab Number:** L2165829

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-03 Date Collected: 12/01/21 11:15

Client ID: SB29 10-12' Date Received: 12/01/21

Sample Location: LOWER WEST SIDE MANHATTAN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.68	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.76	1
o-Xylene	ND		ug/kg	1.4	0.40	1
Xylenes, Total	ND		ug/kg	1.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.19	1
Dibromomethane	ND		ug/kg	2.7	0.32	1
Styrene	ND		ug/kg	1.4	0.27	1
Dichlorodifluoromethane	ND		ug/kg	14	1.2	1
Acetone	ND		ug/kg	14	6.5	1
Carbon disulfide	ND		ug/kg	14	6.2	1
2-Butanone	ND		ug/kg	14	3.0	1
Vinyl acetate	ND		ug/kg	14	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.7	0.17	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
2,2-Dichloropropane	ND		ug/kg	2.7	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.38	1
1,3-Dichloropropane	ND		ug/kg	2.7	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.68	0.18	1
Bromobenzene	ND		ug/kg	2.7	0.20	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
tert-Butylbenzene	ND		ug/kg	2.7	0.16	1
o-Chlorotoluene	ND		ug/kg	2.7	0.26	1
p-Chlorotoluene	ND		ug/kg	2.7	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.1	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.23	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.4	0.88	1
Acrylonitrile	ND		ug/kg	5.4	1.6	1

Project Name: BATTERY PARK **Lab Number:** L2165829

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-03 Date Collected: 12/01/21 11:15

Client ID: SB29 10-12' Date Received: 12/01/21

Sample Location: LOWER WEST SIDE MANHATTAN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.44	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.37	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.45	1
1,4-Dioxane	ND		ug/kg	110	48.	1
p-Diethylbenzene	ND		ug/kg	2.7	0.24	1
p-Ethyltoluene	ND		ug/kg	2.7	0.52	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.7	0.26	1
Ethyl ether	ND		ug/kg	2.7	0.46	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.8	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	92		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-04
Client ID: SB28 1-3'
Sample Location: LOWER WEST SIDE MANHATTAN

Date Collected: 12/01/21 12:30
Date Received: 12/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/11/21 02:21
Analyst: MKS
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.1	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	0.35	J	ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	ND		ug/kg	0.61	0.24	1
Chlorobenzene	ND		ug/kg	0.61	0.16	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.85	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.61	0.20	1
Bromodichloromethane	ND		ug/kg	0.61	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.61	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.61	0.20	1
Bromoform	ND		ug/kg	4.9	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	0.20	1
Benzene	ND		ug/kg	0.61	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.9	1.1	1
Bromomethane	ND		ug/kg	2.4	0.71	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1

Project Name: BATTERY PARK **Lab Number:** L2165829

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-04 Date Collected: 12/01/21 12:30

Client ID: SB28 1-3' Date Received: 12/01/21

Sample Location: LOWER WEST SIDE MANHATTAN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.61	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.25	1
p/m-Xylene	ND		ug/kg	2.4	0.69	1
o-Xylene	ND		ug/kg	1.2	0.36	1
Xylenes, Total	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.9	1
Carbon disulfide	ND		ug/kg	12	5.6	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.16	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.61	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.9	0.80	1
Acrylonitrile	ND		ug/kg	4.9	1.4	1

Project Name: BATTERY PARK **Lab Number:** L2165829

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-04 Date Collected: 12/01/21 12:30

Client ID: SB28 1-3' Date Received: 12/01/21

Sample Location: LOWER WEST SIDE MANHATTAN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.41	1
1,4-Dioxane	ND		ug/kg	98	43.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.22	1
p-Ethyltoluene	ND		ug/kg	2.4	0.47	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.1	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	91		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/10/21 20:53
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04 Batch: WG1582037-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.27	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/10/21 20:53
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04 Batch: WG1582037-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/10/21 20:53
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04 Batch: WG1582037-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	83		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2165829

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1582037-3 WG1582037-4								
Methylene chloride	84		84		70-130	0		30
1,1-Dichloroethane	84		71		70-130	17		30
Chloroform	89		88		70-130	1		30
Carbon tetrachloride	104		98		70-130	6		30
1,2-Dichloropropane	88		86		70-130	2		30
Dibromochloromethane	102		104		70-130	2		30
1,1,2-Trichloroethane	107		109		70-130	2		30
Tetrachloroethene	118		113		70-130	4		30
Chlorobenzene	104		101		70-130	3		30
Trichlorofluoromethane	90		86		70-139	5		30
1,2-Dichloroethane	78		78		70-130	0		30
1,1,1-Trichloroethane	99		95		70-130	4		30
Bromodichloromethane	99		99		70-130	0		30
trans-1,3-Dichloropropene	100		101		70-130	1		30
cis-1,3-Dichloropropene	102		101		70-130	1		30
1,1-Dichloropropene	104		100		70-130	4		30
Bromoform	92		97		70-130	5		30
1,1,2,2-Tetrachloroethane	119		122		70-130	2		30
Benzene	104		101		70-130	3		30
Toluene	103		100		70-130	3		30
Ethylbenzene	105		101		70-130	4		30
Chloromethane	52		**50**	Q	52-130	4		30
Bromomethane	109		99		57-147	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2165829

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1582037-3 WG1582037-4								
Vinyl chloride	79		**59**	Q	67-130	29		30
Chloroethane	72		70		50-151	3		30
1,1-Dichloroethene	91		87		65-135	4		30
trans-1,2-Dichloroethene	89		90		70-130	1		30
Trichloroethene	99		94		70-130	5		30
1,2-Dichlorobenzene	99		98		70-130	1		30
1,3-Dichlorobenzene	100		98		70-130	2		30
1,4-Dichlorobenzene	102		99		70-130	3		30
Methyl tert butyl ether	102		107		66-130	5		30
p/m-Xylene	104		100		70-130	4		30
o-Xylene	100		97		70-130	3		30
cis-1,2-Dichloroethene	92		90		70-130	2		30
Dibromomethane	86		86		70-130	0		30
Styrene	102		100		70-130	2		30
Dichlorodifluoromethane	112		107		30-146	5		30
Acetone	**49**	Q	54		54-140	10		30
Carbon disulfide	88		86		59-130	2		30
2-Butanone	**66**	Q	**68**	Q	70-130	3		30
Vinyl acetate	92		98		70-130	6		30
4-Methyl-2-pentanone	78		85		70-130	9		30
1,2,3-Trichloropropane	98		104		68-130	6		30
2-Hexanone	83		93		70-130	11		30
Bromochloromethane	87		87		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2165829

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1582037-3 WG1582037-4								
2,2-Dichloropropane	102		98		70-130	4		30
1,2-Dibromoethane	94		96		70-130	2		30
1,3-Dichloropropane	107		110		69-130	3		30
1,1,1,2-Tetrachloroethane	104		101		70-130	3		30
Bromobenzene	102		102		70-130	0		30
n-Butylbenzene	104		100		70-130	4		30
sec-Butylbenzene	108		103		70-130	5		30
tert-Butylbenzene	105		101		70-130	4		30
o-Chlorotoluene	121		119		70-130	2		30
p-Chlorotoluene	102		99		70-130	3		30
1,2-Dibromo-3-chloropropane	98		109		68-130	11		30
Hexachlorobutadiene	117		113		67-130	3		30
Isopropylbenzene	107		104		70-130	3		30
p-Isopropyltoluene	106		102		70-130	4		30
Naphthalene	87		89		70-130	2		30
Acrylonitrile	**67**	Q	**69**	Q	70-130	3		30
n-Propylbenzene	107		103		70-130	4		30
1,2,3-Trichlorobenzene	94		93		70-130	1		30
1,2,4-Trichlorobenzene	98		95		70-130	3		30
1,3,5-Trimethylbenzene	103		99		70-130	4		30
1,2,4-Trimethylbenzene	104		100		70-130	4		30
1,4-Dioxane	81		90		65-136	11		30
p-Diethylbenzene	102		98		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2165829

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1582037-3 WG1582037-4								
p-Ethyltoluene	107		102		70-130	5		30
1,2,4,5-Tetramethylbenzene	96		87		70-130	10		30
Ethyl ether	97		97		67-130	0		30
trans-1,4-Dichloro-2-butene	91		92		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	79		81		70-130
Toluene-d8	98		99		70-130
4-Bromofluorobenzene	97		99		70-130
Dibromofluoromethane	85		85		70-130

SEMIVOLATILES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-01
Client ID: SB30 1-3'
Sample Location: LOWER WEST SIDE MANHATTAN

Date Collected: 12/01/21 09:45
Date Received: 12/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/11/21 16:07
Analyst: IM
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 12/10/21 21:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	30.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	120		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	150	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: BATTERY PARK **Lab Number:** L2165829

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-01 Date Collected: 12/01/21 09:45

Client ID: SB30 1-3' Date Received: 12/01/21

Sample Location: LOWER WEST SIDE MANHATTAN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	71	J	ug/kg	100	19.	1
Benzo(a)pyrene	63	J	ug/kg	140	42.	1
Benzo(b)fluoranthene	85	J	ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	64	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	46	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	16.	1
Phenanthrene	51	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	50	J	ug/kg	140	24.	1
Pyrene	110		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	39.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	70.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	69.	1
2,4-Dinitrophenol	ND		ug/kg	820	79.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	82.	1
Pentachlorophenol	ND		ug/kg	140	37.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	27.	1

Project Name: BATTERY PARK **Lab Number:** L2165829

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-01 Date Collected: 12/01/21 09:45

Client ID: SB30 1-3' Date Received: 12/01/21

Sample Location: LOWER WEST SIDE MANHATTAN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	32.	1
Benzoic Acid	ND		ug/kg	550	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	ND		ug/kg	170	16.	1
1,4-Dioxane	ND		ug/kg	26	7.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	70		10-136
4-Terphenyl-d14	65		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-02
Client ID: SB29 1-3'
Sample Location: LOWER WEST SIDE MANHATTAN

Date Collected: 12/01/21 11:00
Date Received: 12/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/13/21 07:32
Analyst: IM
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 12/11/21 09:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	420		ug/kg	110	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	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	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	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: BATTERY PARK **Lab Number:** L2165829

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-02 Date Collected: 12/01/21 11:00

Client ID: SB29 1-3' Date Received: 12/01/21

Sample Location: LOWER WEST SIDE MANHATTAN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	220		ug/kg	110	20.	1
Benzo(a)pyrene	200		ug/kg	140	43.	1
Benzo(b)fluoranthene	260		ug/kg	110	30.	1
Benzo(k)fluoranthene	80	J	ug/kg	110	28.	1
Chrysene	210		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	74	J	ug/kg	110	35.	1
Benzo(ghi)perylene	130	J	ug/kg	140	21.	1
Fluorene	20	J	ug/kg	180	17.	1
Phenanthrene	280		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	33	J	ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	140		ug/kg	140	25.	1
Pyrene	380		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		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	110	34.	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	59.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: BATTERY PARK **Lab Number:** L2165829

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-02 Date Collected: 12/01/21 11:00

Client ID: SB29 1-3' Date Received: 12/01/21

Sample Location: LOWER WEST SIDE MANHATTAN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	21	J	ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	59		30-120
2,4,6-Tribromophenol	65		10-136
4-Terphenyl-d14	54		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-03
Client ID: SB29 10-12'
Sample Location: LOWER WEST SIDE MANHATTAN

Date Collected: 12/01/21 11:15
Date Received: 12/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/11/21 15:46
Analyst: IM
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 12/10/21 21:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	22	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: BATTERY PARK **Lab Number:** L2165829

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-03 Date Collected: 12/01/21 11:15

Client ID: SB29 10-12' Date Received: 12/01/21

Sample Location: LOWER WEST SIDE MANHATTAN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	19	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: BATTERY PARK **Lab Number:** L2165829

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-03 Date Collected: 12/01/21 11:15

Client ID: SB29 10-12' Date Received: 12/01/21

Sample Location: LOWER WEST SIDE MANHATTAN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	67		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-04
Client ID: SB28 1-3'
Sample Location: LOWER WEST SIDE MANHATTAN

Date Collected: 12/01/21 12:30
Date Received: 12/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/11/21 15:24
Analyst: IM
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 12/10/21 21:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	19	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	550		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	90	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	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: BATTERY PARK **Lab Number:** L2165829

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-04 Date Collected: 12/01/21 12:30

Client ID: SB28 1-3' Date Received: 12/01/21

Sample Location: LOWER WEST SIDE MANHATTAN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	330		ug/kg	110	21.	1
Benzo(a)pyrene	290		ug/kg	150	46.	1
Benzo(b)fluoranthene	360		ug/kg	110	32.	1
Benzo(k)fluoranthene	140		ug/kg	110	30.	1
Chrysene	330		ug/kg	110	20.	1
Acenaphthylene	46	J	ug/kg	150	29.	1
Anthracene	110		ug/kg	110	37.	1
Benzo(ghi)perylene	190		ug/kg	150	22.	1
Fluorene	24	J	ug/kg	190	18.	1
Phenanthrene	270		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	53	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	210		ug/kg	150	26.	1
Pyrene	520		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	31	J	ug/kg	190	18.	1
2-Methylnaphthalene	32	J	ug/kg	220	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	900	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: BATTERY PARK **Lab Number:** L2165829

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-04 Date Collected: 12/01/21 12:30

Client ID: SB28 1-3' Date Received: 12/01/21

Sample Location: LOWER WEST SIDE MANHATTAN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	23	J	ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	58		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/11/21 13:31
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 12/10/21 00:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-04 Batch: WG1581435-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	64	J	ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/11/21 13:31
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 12/10/21 00:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-04 Batch: WG1581435-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	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	61.

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/11/21 13:31
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 12/10/21 00:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-04 Batch: WG1581435-1					
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.
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.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	74		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	74		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/14/21 20:07
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 12/10/21 16:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1581861-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.
Hexachlorobenzene	ND		ug/kg	100	19.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	170	16.
1,2-Dichlorobenzene	ND		ug/kg	170	30.
1,3-Dichlorobenzene	ND		ug/kg	170	29.
1,4-Dichlorobenzene	ND		ug/kg	170	29.
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.
2,4-Dinitrotoluene	ND		ug/kg	170	33.
2,6-Dinitrotoluene	ND		ug/kg	170	28.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.
4-Bromophenyl phenyl ether	ND		ug/kg	170	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	170	24.
Hexachlorocyclopentadiene	ND		ug/kg	480	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	170	20.
Nitrobenzene	ND		ug/kg	150	25.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.
Butyl benzyl phthalate	ND		ug/kg	170	42.
Di-n-butylphthalate	ND		ug/kg	170	32.
Di-n-octylphthalate	ND		ug/kg	170	56.
Diethyl phthalate	ND		ug/kg	170	15.

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/14/21 20:07
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 12/10/21 16:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1581861-1					
Dimethyl phthalate	ND		ug/kg	170	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	41.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	27.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	39.
4-Chloroaniline	ND		ug/kg	170	30.
2-Nitroaniline	ND		ug/kg	170	32.
3-Nitroaniline	ND		ug/kg	170	31.
4-Nitroaniline	ND		ug/kg	170	69.
Dibenzofuran	ND		ug/kg	170	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	17.
Acetophenone	ND		ug/kg	170	21.
2,4,6-Trichlorophenol	ND		ug/kg	100	32.
p-Chloro-m-cresol	ND		ug/kg	170	25.
2-Chlorophenol	ND		ug/kg	170	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	170	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/14/21 20:07
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 12/10/21 16:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1581861-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	78.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	37.
Phenol	ND		ug/kg	170	25.
2-Methylphenol	ND		ug/kg	170	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	170	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	170	51.
Carbazole	ND		ug/kg	170	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	87		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2165829

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-04 Batch: WG1581435-2 WG1581435-3								
Acenaphthene	73		76		31-137	4		50
1,2,4-Trichlorobenzene	68		72		38-107	6		50
Hexachlorobenzene	77		83		40-140	8		50
Bis(2-chloroethyl)ether	74		77		40-140	4		50
2-Chloronaphthalene	72		78		40-140	8		50
1,2-Dichlorobenzene	68		72		40-140	6		50
1,3-Dichlorobenzene	66		68		40-140	3		50
1,4-Dichlorobenzene	67		69		28-104	3		50
3,3'-Dichlorobenzidine	48		54		40-140	12		50
2,4-Dinitrotoluene	78		86		40-132	10		50
2,6-Dinitrotoluene	78		83		40-140	6		50
Fluoranthene	75		78		40-140	4		50
4-Chlorophenyl phenyl ether	73		76		40-140	4		50
4-Bromophenyl phenyl ether	76		79		40-140	4		50
Bis(2-chloroisopropyl)ether	75		80		40-140	6		50
Bis(2-chloroethoxy)methane	73		79		40-117	8		50
Hexachlorobutadiene	67		72		40-140	7		50
Hexachlorocyclopentadiene	65		70		40-140	7		50
Hexachloroethane	68		71		40-140	4		50
Isophorone	70		76		40-140	8		50
Naphthalene	70		74		40-140	6		50
Nitrobenzene	74		76		40-140	3		50
NDPA/DPA	73		76		36-157	4		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2165829
Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-04 Batch: WG1581435-2 WG1581435-3								
n-Nitrosodi-n-propylamine	72		76		32-121	5		50
Bis(2-ethylhexyl)phthalate	78		86		40-140	10		50
Butyl benzyl phthalate	78		86		40-140	10		50
Di-n-butylphthalate	76		81		40-140	6		50
Di-n-octylphthalate	78		86		40-140	10		50
Diethyl phthalate	73		78		40-140	7		50
Dimethyl phthalate	72		77		40-140	7		50
Benzo(a)anthracene	72		74		40-140	3		50
Benzo(a)pyrene	73		75		40-140	3		50
Benzo(b)fluoranthene	80		81		40-140	1		50
Benzo(k)fluoranthene	78		80		40-140	3		50
Chrysene	72		75		40-140	4		50
Acenaphthylene	69		72		40-140	4		50
Anthracene	73		75		40-140	3		50
Benzo(ghi)perylene	78		79		40-140	1		50
Fluorene	73		77		40-140	5		50
Phenanthrene	73		74		40-140	1		50
Dibenzo(a,h)anthracene	80		80		40-140	0		50
Indeno(1,2,3-cd)pyrene	78		79		40-140	1		50
Pyrene	74		76		35-142	3		50
Biphenyl	74		79		37-127	7		50
4-Chloroaniline	59		63		40-140	7		50
2-Nitroaniline	81		85		47-134	5		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-04 Batch: WG1581435-2 WG1581435-3								
3-Nitroaniline	55		63		26-129	14		50
4-Nitroaniline	73		79		41-125	8		50
Dibenzofuran	74		76		40-140	3		50
2-Methylnaphthalene	71		76		40-140	7		50
1,2,4,5-Tetrachlorobenzene	72		76		40-117	5		50
Acetophenone	76		80		14-144	5		50
2,4,6-Trichlorophenol	77		80		30-130	4		50
p-Chloro-m-cresol	77		81		26-103	5		50
2-Chlorophenol	74		78		25-102	5		50
2,4-Dichlorophenol	76		79		30-130	4		50
2,4-Dimethylphenol	73		75		30-130	3		50
2-Nitrophenol	82		88		30-130	7		50
4-Nitrophenol	77		81		11-114	5		50
2,4-Dinitrophenol	28		37		4-130	28		50
4,6-Dinitro-o-cresol	74		82		10-130	10		50
Pentachlorophenol	70		78		17-109	11		50
Phenol	78		79		26-90	1		50
2-Methylphenol	76		79		30-130.	4		50
3-Methylphenol/4-Methylphenol	76		79		30-130	4		50
2,4,5-Trichlorophenol	79		82		30-130	4		50
Benzoic Acid	**0**	Q	**0**	Q	10-110	NC		50
Benzyl Alcohol	74		78		40-140	5		50
Carbazole	74		76		54-128	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2165829

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-04 Batch: WG1581435-2 WG1581435-3								
1,4-Dioxane	53		54		40-140	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	75		77		25-120
Phenol-d6	78		82		10-120
Nitrobenzene-d5	73		76		23-120
2-Fluorobiphenyl	68		73		30-120
2,4,6-Tribromophenol	82		88		10-136
4-Terphenyl-d14	73		78		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2165829

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1581861-2 WG1581861-3								
Acenaphthene	82		84		31-137	2		50
1,2,4-Trichlorobenzene	86		84		38-107	2		50
Hexachlorobenzene	92		96		40-140	4		50
Bis(2-chloroethyl)ether	77		77		40-140	0		50
2-Chloronaphthalene	91		92		40-140	1		50
1,2-Dichlorobenzene	82		81		40-140	1		50
1,3-Dichlorobenzene	81		79		40-140	3		50
1,4-Dichlorobenzene	80		79		28-104	1		50
3,3'-Dichlorobenzidine	70		78		40-140	11		50
2,4-Dinitrotoluene	90		95		40-132	5		50
2,6-Dinitrotoluene	104		108		40-140	4		50
Fluoranthene	89		92		40-140	3		50
4-Chlorophenyl phenyl ether	93		93		40-140	0		50
4-Bromophenyl phenyl ether	95		99		40-140	4		50
Bis(2-chloroisopropyl)ether	90		89		40-140	1		50
Bis(2-chloroethoxy)methane	78		81		40-117	4		50
Hexachlorobutadiene	93		89		40-140	4		50
Hexachlorocyclopentadiene	66		67		40-140	2		50
Hexachloroethane	81		80		40-140	1		50
Isophorone	74		78		40-140	5		50
Naphthalene	86		84		40-140	2		50
Nitrobenzene	80		80		40-140	0		50
NDPA/DPA	88		91		36-157	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2165829

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1581861-2 WG1581861-3								
n-Nitrosodi-n-propylamine	76		78		32-121	3		50
Bis(2-ethylhexyl)phthalate	103		103		40-140	0		50
Butyl benzyl phthalate	88		96		40-140	9		50
Di-n-butylphthalate	92		93		40-140	1		50
Di-n-octylphthalate	98		100		40-140	2		50
Diethyl phthalate	88		90		40-140	2		50
Dimethyl phthalate	88		90		40-140	2		50
Benzo(a)anthracene	91		92		40-140	1		50
Benzo(a)pyrene	89		90		40-140	1		50
Benzo(b)fluoranthene	98		99		40-140	1		50
Benzo(k)fluoranthene	90		92		40-140	2		50
Chrysene	88		90		40-140	2		50
Acenaphthylene	86		87		40-140	1		50
Anthracene	86		89		40-140	3		50
Benzo(ghi)perylene	99		100		40-140	1		50
Fluorene	90		92		40-140	2		50
Phenanthrene	87		88		40-140	1		50
Dibenzo(a,h)anthracene	96		97		40-140	1		50
Indeno(1,2,3-cd)pyrene	97		97		40-140	0		50
Pyrene	87		89		35-142	2		50
Biphenyl	86		87		37-127	1		50
4-Chloroaniline	49		57		40-140	15		50
2-Nitroaniline	104		107		47-134	3		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2165829
Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1581861-2 WG1581861-3								
3-Nitroaniline	79		86		26-129	8		50
4-Nitroaniline	87		89		41-125	2		50
Dibenzofuran	87		90		40-140	3		50
2-Methylnaphthalene	86		86		40-140	0		50
1,2,4,5-Tetrachlorobenzene	91		91		40-117	0		50
Acetophenone	75		74		14-144	1		50
2,4,6-Trichlorophenol	100		103		30-130	3		50
p-Chloro-m-cresol	94		97		26-103	3		50
2-Chlorophenol	92		92		25-102	0		50
2,4-Dichlorophenol	99		103		30-130	4		50
2,4-Dimethylphenol	84		88		30-130	5		50
2-Nitrophenol	107		109		30-130	2		50
4-Nitrophenol	90		94		11-114	4		50
2,4-Dinitrophenol	44		50		4-130	13		50
4,6-Dinitro-o-cresol	102		106		10-130	4		50
Pentachlorophenol	81		84		17-109	4		50
Phenol	81		83		26-90	2		50
2-Methylphenol	88		89		30-130.	1		50
3-Methylphenol/4-Methylphenol	92		97		30-130	5		50
2,4,5-Trichlorophenol	104		108		30-130	4		50
Benzoic Acid	**0**	Q	**0**	Q	10-110	NC		50
Benzyl Alcohol	80		82		40-140	2		50
Carbazole	88		90		54-128	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2165829

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1581861-2 WG1581861-3								
1,4-Dioxane	48		48		40-140	0		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	91		91		25-120
Phenol-d6	82		85		10-120
Nitrobenzene-d5	78		78		23-120
2-Fluorobiphenyl	83		83		30-120
2,4,6-Tribromophenol	91		92		10-136
4-Terphenyl-d14	82		84		18-120

PCBS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-01
Client ID: SB30 1-3'
Sample Location: LOWER WEST SIDE MANHATTAN

Date Collected: 12/01/21 09:45
Date Received: 12/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/12/21 12:35
Analyst: JAW
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 12/10/21 22:03
Cleanup Method: EPA 3665A
Cleanup Date: 12/11/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/11/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.5	2.98	1	A
Aroclor 1221	ND		ug/kg	33.5	3.36	1	A
Aroclor 1232	ND		ug/kg	33.5	7.10	1	A
Aroclor 1242	ND		ug/kg	33.5	4.52	1	A
Aroclor 1248	ND		ug/kg	33.5	5.02	1	A
Aroclor 1254	ND		ug/kg	33.5	3.66	1	A
Aroclor 1260	ND		ug/kg	33.5	6.19	1	A
Aroclor 1262	ND		ug/kg	33.5	4.26	1	A
Aroclor 1268	ND		ug/kg	33.5	3.47	1	A
PCBs, Total	ND		ug/kg	33.5	2.98	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-02
Client ID: SB29 1-3'
Sample Location: LOWER WEST SIDE MANHATTAN

Date Collected: 12/01/21 11:00
Date Received: 12/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/13/21 13:04
Analyst: CW
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 12/12/21 15:40
Cleanup Method: EPA 3665A
Cleanup Date: 12/13/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/13/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.4	3.14	1	A
Aroclor 1221	ND		ug/kg	35.4	3.54	1	A
Aroclor 1232	ND		ug/kg	35.4	7.49	1	A
Aroclor 1242	ND		ug/kg	35.4	4.76	1	A
Aroclor 1248	ND		ug/kg	35.4	5.30	1	A
Aroclor 1254	12.8	J	ug/kg	35.4	3.87	1	B
Aroclor 1260	6.65	J	ug/kg	35.4	6.53	1	B
Aroclor 1262	ND		ug/kg	35.4	4.49	1	A
Aroclor 1268	ND		ug/kg	35.4	3.66	1	A
PCBs, Total	19.5	J	ug/kg	35.4	3.14	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-03
Client ID: SB29 10-12'
Sample Location: LOWER WEST SIDE MANHATTAN

Date Collected: 12/01/21 11:15
Date Received: 12/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/12/21 12:48
Analyst: JAW
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 12/10/21 22:03
Cleanup Method: EPA 3665A
Cleanup Date: 12/11/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/11/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.1	3.20	1	A
Aroclor 1221	ND		ug/kg	36.1	3.61	1	A
Aroclor 1232	ND		ug/kg	36.1	7.65	1	A
Aroclor 1242	ND		ug/kg	36.1	4.86	1	A
Aroclor 1248	ND		ug/kg	36.1	5.41	1	A
Aroclor 1254	ND		ug/kg	36.1	3.94	1	A
Aroclor 1260	ND		ug/kg	36.1	6.66	1	A
Aroclor 1262	ND		ug/kg	36.1	4.58	1	A
Aroclor 1268	ND		ug/kg	36.1	3.74	1	A
PCBs, Total	ND		ug/kg	36.1	3.20	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-04 D
Client ID: SB28 1-3'
Sample Location: LOWER WEST SIDE MANHATTAN

Date Collected: 12/01/21 12:30
Date Received: 12/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/16/21 10:50
Analyst: JWL
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 12/15/21 20:51
Cleanup Method: EPA 3665A
Cleanup Date: 12/16/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/16/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	185	16.4	5	A
Aroclor 1221	ND		ug/kg	185	18.5	5	A
Aroclor 1232	ND		ug/kg	185	39.1	5	A
Aroclor 1242	ND		ug/kg	185	24.9	5	A
Aroclor 1248	ND		ug/kg	185	27.7	5	A
Aroclor 1254	1740		ug/kg	185	20.2	5	B
Aroclor 1260	ND		ug/kg	185	34.1	5	A
Aroclor 1262	ND		ug/kg	185	23.4	5	A
Aroclor 1268	ND		ug/kg	185	19.1	5	A
PCBs, Total	1740		ug/kg	185	16.4	5	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 12/10/21 22:08
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 12/10/21 01:40
Cleanup Method: EPA 3665A
Cleanup Date: 12/10/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/10/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,03 Batch: WG1581452-1						
Aroclor 1016	ND		ug/kg	31.6	2.81	A
Aroclor 1221	ND		ug/kg	31.6	3.17	A
Aroclor 1232	ND		ug/kg	31.6	6.71	A
Aroclor 1242	ND		ug/kg	31.6	4.26	A
Aroclor 1248	ND		ug/kg	31.6	4.75	A
Aroclor 1254	ND		ug/kg	31.6	3.46	A
Aroclor 1260	ND		ug/kg	31.6	5.85	A
Aroclor 1262	ND		ug/kg	31.6	4.02	A
Aroclor 1268	ND		ug/kg	31.6	3.28	A
PCBs, Total	ND		ug/kg	31.6	2.81	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**17**	Q	30-150	A
Decachlorobiphenyl	**18**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	**17**	Q	30-150	B
Decachlorobiphenyl	**20**	Q	30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 12/13/21 12:43
Analyst: CW

Extraction Method: EPA 3546
Extraction Date: 12/12/21 15:40
Cleanup Method: EPA 3665A
Cleanup Date: 12/13/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/13/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02 Batch: WG1582306-1						
Aroclor 1016	ND		ug/kg	32.5	2.88	A
Aroclor 1221	ND		ug/kg	32.5	3.26	A
Aroclor 1232	ND		ug/kg	32.5	6.89	A
Aroclor 1242	ND		ug/kg	32.5	4.38	A
Aroclor 1248	ND		ug/kg	32.5	4.87	A
Aroclor 1254	ND		ug/kg	32.5	3.55	A
Aroclor 1260	ND		ug/kg	32.5	6.00	A
Aroclor 1262	ND		ug/kg	32.5	4.13	A
Aroclor 1268	ND		ug/kg	32.5	3.36	A
PCBs, Total	ND		ug/kg	32.5	2.88	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 12/16/21 08:48
Analyst: JWL

Extraction Method: EPA 3546
Extraction Date: 12/15/21 20:51
Cleanup Method: EPA 3665A
Cleanup Date: 12/16/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/16/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 04 Batch: WG1583906-1						
Aroclor 1016	ND		ug/kg	31.9	2.83	A
Aroclor 1221	ND		ug/kg	31.9	3.19	A
Aroclor 1232	ND		ug/kg	31.9	6.76	A
Aroclor 1242	ND		ug/kg	31.9	4.30	A
Aroclor 1248	ND		ug/kg	31.9	4.78	A
Aroclor 1254	ND		ug/kg	31.9	3.49	A
Aroclor 1260	ND		ug/kg	31.9	5.89	A
Aroclor 1262	ND		ug/kg	31.9	4.05	A
Aroclor 1268	ND		ug/kg	31.9	3.30	A
PCBs, Total	ND		ug/kg	31.9	2.83	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	60		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2165829

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,03 Batch: WG1581452-2 WG1581452-3									
Aroclor 1016	74		64		40-140	14		50	A
Aroclor 1260	72		62		40-140	15		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		67		30-150	A
Decachlorobiphenyl	68		62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		69		30-150	B
Decachlorobiphenyl	87		75		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2165829

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02 Batch: WG1582306-2 WG1582306-3									
Aroclor 1016	62		67		40-140	8		50	A
Aroclor 1260	61		62		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		70		30-150	A
Decachlorobiphenyl	54		58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		72		30-150	B
Decachlorobiphenyl	63		67		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2165829

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 04 Batch: WG1583906-2 WG1583906-3									
Aroclor 1016	52		54		40-140	4		50	A
Aroclor 1260	54		56		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		56		30-150	A
Decachlorobiphenyl	60		62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		59		30-150	B
Decachlorobiphenyl	62		63		30-150	B

PESTICIDES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-01
Client ID: SB30 1-3'
Sample Location: LOWER WEST SIDE MANHATTAN

Date Collected: 12/01/21 09:45
Date Received: 12/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/11/21 11:19
Analyst: EJL
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 12/10/21 17:13
Cleanup Method: EPA 3620B
Cleanup Date: 12/11/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.66	0.324	1	A
Lindane	ND		ug/kg	0.690	0.308	1	A
Alpha-BHC	ND		ug/kg	0.690	0.196	1	A
Beta-BHC	ND		ug/kg	1.66	0.628	1	A
Heptachlor	ND		ug/kg	0.828	0.371	1	A
Aldrin	ND		ug/kg	1.66	0.583	1	A
Heptachlor epoxide	ND		ug/kg	3.10	0.931	1	A
Endrin	ND		ug/kg	0.690	0.283	1	A
Endrin aldehyde	ND		ug/kg	2.07	0.724	1	A
Endrin ketone	ND		ug/kg	1.66	0.426	1	A
Dieldrin	ND		ug/kg	1.03	0.517	1	A
4,4'-DDE	0.443	J	ug/kg	1.66	0.383	1	B
4,4'-DDD	ND		ug/kg	1.66	0.591	1	A
4,4'-DDT	ND	IP	ug/kg	3.10	1.33	1	A
Endosulfan I	ND		ug/kg	1.66	0.391	1	A
Endosulfan II	ND		ug/kg	1.66	0.553	1	A
Endosulfan sulfate	ND		ug/kg	0.690	0.328	1	A
Methoxychlor	ND		ug/kg	3.10	0.966	1	A
Toxaphene	ND		ug/kg	31.0	8.69	1	A
cis-Chlordane	0.683	JP	ug/kg	2.07	0.577	1	A
trans-Chlordane	ND	IP	ug/kg	2.07	0.546	1	B
Chlordane	ND		ug/kg	13.8	5.48	1	A

Project Name: BATTERY PARK **Lab Number:** L2165829

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-01 Date Collected: 12/01/21 09:45

Client ID: SB30 1-3' Date Received: 12/01/21

Sample Location: LOWER WEST SIDE MANHATTAN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	100		30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	106		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-02
Client ID: SB29 1-3'
Sample Location: LOWER WEST SIDE MANHATTAN

Date Collected: 12/01/21 11:00
Date Received: 12/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/13/21 18:36
Analyst: EJL
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 12/12/21 16:17
Cleanup Method: EPA 3620B
Cleanup Date: 12/13/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.67	0.327	1	A
Lindane	ND		ug/kg	0.696	0.311	1	A
Alpha-BHC	ND		ug/kg	0.696	0.198	1	A
Beta-BHC	ND		ug/kg	1.67	0.634	1	A
Heptachlor	ND		ug/kg	0.835	0.374	1	A
Aldrin	ND		ug/kg	1.67	0.588	1	A
Heptachlor epoxide	ND		ug/kg	3.13	0.940	1	A
Endrin	ND		ug/kg	0.696	0.285	1	A
Endrin aldehyde	ND		ug/kg	2.09	0.731	1	A
Endrin ketone	ND		ug/kg	1.67	0.430	1	A
Dieldrin	ND		ug/kg	1.04	0.522	1	A
4,4'-DDE	1.04	J	ug/kg	1.67	0.386	1	A
4,4'-DDD	0.970	J	ug/kg	1.67	0.596	1	A
4,4'-DDT	ND		ug/kg	3.13	1.34	1	A
Endosulfan I	ND		ug/kg	1.67	0.395	1	A
Endosulfan II	ND		ug/kg	1.67	0.558	1	A
Endosulfan sulfate	ND		ug/kg	0.696	0.331	1	A
Methoxychlor	ND		ug/kg	3.13	0.975	1	A
Toxaphene	ND		ug/kg	31.3	8.77	1	A
cis-Chlordane	0.705	JP	ug/kg	2.09	0.582	1	A
trans-Chlordane	0.693	JIP	ug/kg	2.09	0.551	1	B
Chlordane	ND		ug/kg	13.9	5.53	1	A

Project Name: BATTERY PARK **Lab Number:** L2165829

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-02 Date Collected: 12/01/21 11:00

Client ID: SB29 1-3' Date Received: 12/01/21

Sample Location: LOWER WEST SIDE MANHATTAN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-03
Client ID: SB29 10-12'
Sample Location: LOWER WEST SIDE MANHATTAN

Date Collected: 12/01/21 11:15
Date Received: 12/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/11/21 11:30
Analyst: EJL
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 12/10/21 17:13
Cleanup Method: EPA 3620B
Cleanup Date: 12/11/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.69	0.332	1	A
Lindane	ND		ug/kg	0.706	0.315	1	A
Alpha-BHC	ND		ug/kg	0.706	0.200	1	A
Beta-BHC	ND		ug/kg	1.69	0.642	1	A
Heptachlor	ND		ug/kg	0.847	0.380	1	A
Aldrin	ND		ug/kg	1.69	0.596	1	A
Heptachlor epoxide	ND		ug/kg	3.17	0.952	1	A
Endrin	ND		ug/kg	0.706	0.289	1	A
Endrin aldehyde	ND		ug/kg	2.12	0.741	1	A
Endrin ketone	ND		ug/kg	1.69	0.436	1	A
Dieldrin	ND		ug/kg	1.06	0.529	1	A
4,4'-DDE	ND		ug/kg	1.69	0.392	1	A
4,4'-DDD	ND		ug/kg	1.69	0.604	1	A
4,4'-DDT	ND		ug/kg	3.17	1.36	1	A
Endosulfan I	ND		ug/kg	1.69	0.400	1	A
Endosulfan II	ND		ug/kg	1.69	0.566	1	A
Endosulfan sulfate	ND		ug/kg	0.706	0.336	1	A
Methoxychlor	ND		ug/kg	3.17	0.988	1	A
Toxaphene	ND		ug/kg	31.7	8.89	1	A
cis-Chlordane	ND		ug/kg	2.12	0.590	1	A
trans-Chlordane	ND		ug/kg	2.12	0.559	1	A
Chlordane	ND		ug/kg	14.1	5.61	1	A

Project Name: BATTERY PARK **Lab Number:** L2165829

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-03 Date Collected: 12/01/21 11:15

Client ID: SB29 10-12' Date Received: 12/01/21

Sample Location: LOWER WEST SIDE MANHATTAN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	104		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	99		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-04
Client ID: SB28 1-3'
Sample Location: LOWER WEST SIDE MANHATTAN

Date Collected: 12/01/21 12:30
Date Received: 12/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/11/21 11:42
Analyst: EJL
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 12/10/21 17:13
Cleanup Method: EPA 3620B
Cleanup Date: 12/11/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.75	0.342	1	A
Lindane	ND		ug/kg	0.728	0.326	1	A
Alpha-BHC	ND		ug/kg	0.728	0.207	1	A
Beta-BHC	ND		ug/kg	1.75	0.663	1	A
Heptachlor	ND		ug/kg	0.874	0.392	1	A
Aldrin	ND		ug/kg	1.75	0.615	1	A
Heptachlor epoxide	ND		ug/kg	3.28	0.983	1	A
Endrin	ND		ug/kg	0.728	0.298	1	A
Endrin aldehyde	ND		ug/kg	2.18	0.765	1	A
Endrin ketone	ND		ug/kg	1.75	0.450	1	A
Dieldrin	ND		ug/kg	1.09	0.546	1	A
4,4'-DDE	ND		ug/kg	1.75	0.404	1	A
4,4'-DDD	2.37		ug/kg	1.75	0.623	1	A
4,4'-DDT	ND		ug/kg	3.28	1.40	1	A
Endosulfan I	ND		ug/kg	1.75	0.413	1	A
Endosulfan II	ND		ug/kg	1.75	0.584	1	A
Endosulfan sulfate	ND		ug/kg	0.728	0.347	1	A
Methoxychlor	ND		ug/kg	3.28	1.02	1	A
Toxaphene	ND		ug/kg	32.8	9.18	1	A
cis-Chlordane	ND		ug/kg	2.18	0.609	1	A
trans-Chlordane	ND		ug/kg	2.18	0.577	1	A
Chlordane	ND		ug/kg	14.6	5.79	1	A

Project Name: BATTERY PARK **Lab Number:** L2165829

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-04 Date Collected: 12/01/21 12:30

Client ID: SB28 1-3' Date Received: 12/01/21

Sample Location: LOWER WEST SIDE MANHATTAN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	102		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/11/21 09:29
Analyst: EJL

Extraction Method: EPA 3546
Extraction Date: 12/10/21 17:13
Cleanup Method: EPA 3620B
Cleanup Date: 12/11/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,03-04 Batch: WG1581874-1						
Delta-BHC	ND		ug/kg	1.51	0.296	A
Lindane	ND		ug/kg	0.629	0.281	A
Alpha-BHC	ND		ug/kg	0.629	0.179	A
Beta-BHC	ND		ug/kg	1.51	0.572	A
Heptachlor	ND		ug/kg	0.755	0.338	A
Aldrin	ND		ug/kg	1.51	0.531	A
Heptachlor epoxide	ND		ug/kg	2.83	0.849	A
Endrin	ND		ug/kg	0.629	0.258	A
Endrin aldehyde	ND		ug/kg	1.89	0.660	A
Endrin ketone	ND		ug/kg	1.51	0.389	A
Dieldrin	ND		ug/kg	0.943	0.472	A
4,4'-DDE	ND		ug/kg	1.51	0.349	A
4,4'-DDD	ND		ug/kg	1.51	0.538	A
4,4'-DDT	ND		ug/kg	2.83	1.21	A
Endosulfan I	ND		ug/kg	1.51	0.357	A
Endosulfan II	ND		ug/kg	1.51	0.504	A
Endosulfan sulfate	ND		ug/kg	0.629	0.299	A
Methoxychlor	ND		ug/kg	2.83	0.880	A
Toxaphene	ND		ug/kg	28.3	7.92	A
cis-Chlordane	ND		ug/kg	1.89	0.526	A
trans-Chlordane	ND		ug/kg	1.89	0.498	A
Chlordane	ND		ug/kg	12.6	5.00	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/11/21 09:29
Analyst: EJL

Extraction Method: EPA 3546
Extraction Date: 12/10/21 17:13
Cleanup Method: EPA 3620B
Cleanup Date: 12/11/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,03-04 Batch: WG1581874-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	88		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/13/21 15:39
Analyst: EJL

Extraction Method: EPA 3546
Extraction Date: 12/12/21 11:44
Cleanup Method: EPA 3620B
Cleanup Date: 12/12/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02 Batch: WG1582260-1						
Delta-BHC	ND		ug/kg	1.52	0.297	A
Lindane	ND		ug/kg	0.633	0.283	A
Alpha-BHC	ND		ug/kg	0.633	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.576	A
Heptachlor	ND		ug/kg	0.759	0.340	A
Aldrin	ND		ug/kg	1.52	0.535	A
Heptachlor epoxide	ND		ug/kg	2.85	0.854	A
Endrin	ND		ug/kg	0.633	0.259	A
Endrin aldehyde	ND		ug/kg	1.90	0.664	A
Endrin ketone	ND		ug/kg	1.52	0.391	A
Dieldrin	ND		ug/kg	0.949	0.475	A
4,4'-DDE	ND		ug/kg	1.52	0.351	A
4,4'-DDD	ND		ug/kg	1.52	0.542	A
4,4'-DDT	ND		ug/kg	2.85	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.359	A
Endosulfan II	ND		ug/kg	1.52	0.508	A
Endosulfan sulfate	ND		ug/kg	0.633	0.301	A
Methoxychlor	ND		ug/kg	2.85	0.886	A
Toxaphene	ND		ug/kg	28.5	7.97	A
cis-Chlordane	ND		ug/kg	1.90	0.529	A
trans-Chlordane	ND		ug/kg	1.90	0.501	A
Chlordane	ND		ug/kg	12.6	5.03	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/13/21 15:39
Analyst: EJL

Extraction Method: EPA 3546
Extraction Date: 12/12/21 11:44
Cleanup Method: EPA 3620B
Cleanup Date: 12/12/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02 Batch: WG1582260-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	80		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2165829
Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,03-04 Batch: WG1581874-2 WG1581874-3									
Delta-BHC	42		41		30-150	2		30	A
Lindane	90		86		30-150	5		30	A
Alpha-BHC	76		72		30-150	5		30	A
Beta-BHC	95		92		30-150	3		30	A
Heptachlor	98		99		30-150	1		30	A
Aldrin	95		94		30-150	1		30	A
Heptachlor epoxide	59		81		30-150	**31**	Q	30	A
Endrin	98		100		30-150	2		30	A
Endrin aldehyde	78		84		30-150	7		30	A
Endrin ketone	94		100		30-150	6		30	A
Dieldrin	102		103		30-150	1		30	A
4,4'-DDE	90		92		30-150	2		30	A
4,4'-DDD	107		111		30-150	4		30	A
4,4'-DDT	101		102		30-150	1		30	A
Endosulfan I	86		88		30-150	2		30	A
Endosulfan II	96		99		30-150	3		30	A
Endosulfan sulfate	77		81		30-150	5		30	A
Methoxychlor	101		106		30-150	5		30	A
cis-Chlordane	72		72		30-150	0		30	A
trans-Chlordane	99		105		30-150	6		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,03-04 Batch: WG1581874-2 WG1581874-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		82		30-150	A
Decachlorobiphenyl	124		124		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		88		30-150	B
Decachlorobiphenyl	115		112		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2165829
Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02 Batch: WG1582260-2 WG1582260-3									
Delta-BHC	87		91		30-150	4		30	A
Lindane	105		105		30-150	0		30	A
Alpha-BHC	90		89		30-150	1		30	A
Beta-BHC	109		107		30-150	2		30	A
Heptachlor	113		116		30-150	3		30	A
Aldrin	106		108		30-150	2		30	A
Heptachlor epoxide	90		68		30-150	28		30	A
Endrin	104		107		30-150	3		30	A
Endrin aldehyde	57		67		30-150	16		30	A
Endrin ketone	86		95		30-150	10		30	A
Dieldrin	108		111		30-150	3		30	A
4,4'-DDE	96		98		30-150	2		30	A
4,4'-DDD	115		117		30-150	2		30	A
4,4'-DDT	104		106		30-150	2		30	A
Endosulfan I	92		94		30-150	2		30	A
Endosulfan II	100		104		30-150	4		30	A
Endosulfan sulfate	82		95		30-150	15		30	A
Methoxychlor	101		113		30-150	11		30	A
cis-Chlordane	77		79		30-150	3		30	A
trans-Chlordane	113		117		30-150	3		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02 Batch: WG1582260-2 WG1582260-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		96		30-150	A
Decachlorobiphenyl	89		97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	98		97		30-150	B
Decachlorobiphenyl	138		96		30-150	B

METALS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-01
Client ID: SB30 1-3'
Sample Location: LOWER WEST SIDE MANHATTAN
Date Collected: 12/01/21 09:45
Date Received: 12/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1890		mg/kg	8.13	2.20	2	12/09/21 21:57	12/13/21 19:09	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	4.07	0.309	2	12/09/21 21:57	12/13/21 19:09	EPA 3050B	1,6010D	BV
Arsenic, Total	2.36		mg/kg	0.813	0.169	2	12/09/21 21:57	12/13/21 19:09	EPA 3050B	1,6010D	BV
Barium, Total	25.2		mg/kg	0.813	0.142	2	12/09/21 21:57	12/13/21 19:09	EPA 3050B	1,6010D	BV
Beryllium, Total	0.090	J	mg/kg	0.407	0.027	2	12/09/21 21:57	12/13/21 19:09	EPA 3050B	1,6010D	BV
Cadmium, Total	0.187	J	mg/kg	0.813	0.080	2	12/09/21 21:57	12/13/21 19:09	EPA 3050B	1,6010D	BV
Calcium, Total	4110		mg/kg	8.13	2.85	2	12/09/21 21:57	12/13/21 19:09	EPA 3050B	1,6010D	BV
Chromium, Total	6.73		mg/kg	0.813	0.078	2	12/09/21 21:57	12/13/21 19:09	EPA 3050B	1,6010D	BV
Cobalt, Total	3.01		mg/kg	1.63	0.135	2	12/09/21 21:57	12/13/21 19:09	EPA 3050B	1,6010D	BV
Copper, Total	8.04		mg/kg	0.813	0.210	2	12/09/21 21:57	12/13/21 19:09	EPA 3050B	1,6010D	BV
Iron, Total	5870		mg/kg	4.07	0.734	2	12/09/21 21:57	12/13/21 19:09	EPA 3050B	1,6010D	BV
Lead, Total	22.1		mg/kg	4.07	0.218	2	12/09/21 21:57	12/13/21 19:09	EPA 3050B	1,6010D	BV
Magnesium, Total	2250		mg/kg	8.13	1.25	2	12/09/21 21:57	12/13/21 19:09	EPA 3050B	1,6010D	BV
Manganese, Total	89.8		mg/kg	0.813	0.129	2	12/09/21 21:57	12/13/21 19:09	EPA 3050B	1,6010D	BV
Mercury, Total	0.108		mg/kg	0.072	0.047	1	12/09/21 22:34	12/13/21 15:14	EPA 7471B	1,7471B	AC
Nickel, Total	12.6		mg/kg	2.03	0.197	2	12/09/21 21:57	12/13/21 19:09	EPA 3050B	1,6010D	BV
Potassium, Total	645		mg/kg	203	11.7	2	12/09/21 21:57	12/13/21 19:09	EPA 3050B	1,6010D	BV
Selenium, Total	ND		mg/kg	1.63	0.210	2	12/09/21 21:57	12/13/21 19:09	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.813	0.230	2	12/09/21 21:57	12/13/21 19:09	EPA 3050B	1,6010D	BV
Sodium, Total	70.8	J	mg/kg	163	2.56	2	12/09/21 21:57	12/13/21 19:09	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.63	0.256	2	12/09/21 21:57	12/13/21 19:09	EPA 3050B	1,6010D	BV
Vanadium, Total	7.45		mg/kg	0.813	0.165	2	12/09/21 21:57	12/13/21 19:09	EPA 3050B	1,6010D	BV
Zinc, Total	26.5		mg/kg	4.07	0.238	2	12/09/21 21:57	12/13/21 19:09	EPA 3050B	1,6010D	BV

Project Name: BATTERY PARK
Lab Number: L2165829
Project Number: 20-1152
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-02
Client ID: SB29 1-3'
Sample Location: LOWER WEST SIDE MANHATTAN
Date Collected: 12/01/21 11:00
Date Received: 12/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4400		mg/kg	8.64	2.33	2	12/09/21 21:57	12/13/21 20:20	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	4.32	0.328	2	12/09/21 21:57	12/13/21 20:20	EPA 3050B	1,6010D	BV
Arsenic, Total	1.84		mg/kg	0.864	0.180	2	12/09/21 21:57	12/13/21 20:20	EPA 3050B	1,6010D	BV
Barium, Total	73.4		mg/kg	0.864	0.150	2	12/09/21 21:57	12/13/21 20:20	EPA 3050B	1,6010D	BV
Beryllium, Total	0.224	J	mg/kg	0.432	0.029	2	12/09/21 21:57	12/13/21 20:20	EPA 3050B	1,6010D	BV
Cadmium, Total	0.337	J	mg/kg	0.864	0.085	2	12/09/21 21:57	12/13/21 20:20	EPA 3050B	1,6010D	BV
Calcium, Total	23400		mg/kg	8.64	3.02	2	12/09/21 21:57	12/13/21 20:20	EPA 3050B	1,6010D	BV
Chromium, Total	13.9		mg/kg	0.864	0.083	2	12/09/21 21:57	12/13/21 20:20	EPA 3050B	1,6010D	BV
Cobalt, Total	7.00		mg/kg	1.73	0.143	2	12/09/21 21:57	12/13/21 20:20	EPA 3050B	1,6010D	BV
Copper, Total	19.4		mg/kg	0.864	0.223	2	12/09/21 21:57	12/13/21 20:20	EPA 3050B	1,6010D	BV
Iron, Total	10700		mg/kg	4.32	0.780	2	12/09/21 21:57	12/13/21 20:20	EPA 3050B	1,6010D	BV
Lead, Total	34.9		mg/kg	4.32	0.231	2	12/09/21 21:57	12/13/21 20:20	EPA 3050B	1,6010D	BV
Magnesium, Total	7070		mg/kg	8.64	1.33	2	12/09/21 21:57	12/13/21 20:20	EPA 3050B	1,6010D	BV
Manganese, Total	209		mg/kg	0.864	0.137	2	12/09/21 21:57	12/13/21 20:20	EPA 3050B	1,6010D	BV
Mercury, Total	0.181		mg/kg	0.079	0.051	1	12/09/21 22:34	12/13/21 16:11	EPA 7471B	1,7471B	AC
Nickel, Total	57.8		mg/kg	2.16	0.209	2	12/09/21 21:57	12/13/21 20:20	EPA 3050B	1,6010D	BV
Potassium, Total	1950		mg/kg	216	12.4	2	12/09/21 21:57	12/13/21 20:20	EPA 3050B	1,6010D	BV
Selenium, Total	0.268	J	mg/kg	1.73	0.223	2	12/09/21 21:57	12/13/21 20:20	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.864	0.244	2	12/09/21 21:57	12/13/21 20:20	EPA 3050B	1,6010D	BV
Sodium, Total	175		mg/kg	173	2.72	2	12/09/21 21:57	12/13/21 20:20	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.73	0.272	2	12/09/21 21:57	12/13/21 20:20	EPA 3050B	1,6010D	BV
Vanadium, Total	14.0		mg/kg	0.864	0.175	2	12/09/21 21:57	12/13/21 20:20	EPA 3050B	1,6010D	BV
Zinc, Total	44.9		mg/kg	4.32	0.253	2	12/09/21 21:57	12/13/21 20:20	EPA 3050B	1,6010D	BV

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-03
Client ID: SB29 10-12'
Sample Location: LOWER WEST SIDE MANHATTAN
Date Collected: 12/01/21 11:15
Date Received: 12/01/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	969		mg/kg	8.54	2.31	2	12/09/21 21:57	12/13/21 20:25	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	4.27	0.325	2	12/09/21 21:57	12/13/21 20:25	EPA 3050B	1,6010D	BV
Arsenic, Total	1.13		mg/kg	0.854	0.178	2	12/09/21 21:57	12/13/21 20:25	EPA 3050B	1,6010D	BV
Barium, Total	8.56		mg/kg	0.854	0.149	2	12/09/21 21:57	12/13/21 20:25	EPA 3050B	1,6010D	BV
Beryllium, Total	0.043	J	mg/kg	0.427	0.028	2	12/09/21 21:57	12/13/21 20:25	EPA 3050B	1,6010D	BV
Cadmium, Total	ND		mg/kg	0.854	0.084	2	12/09/21 21:57	12/13/21 20:25	EPA 3050B	1,6010D	BV
Calcium, Total	26400		mg/kg	8.54	2.99	2	12/09/21 21:57	12/13/21 20:25	EPA 3050B	1,6010D	BV
Chromium, Total	6.89		mg/kg	0.854	0.082	2	12/09/21 21:57	12/13/21 20:25	EPA 3050B	1,6010D	BV
Cobalt, Total	1.29	J	mg/kg	1.71	0.142	2	12/09/21 21:57	12/13/21 20:25	EPA 3050B	1,6010D	BV
Copper, Total	2.24		mg/kg	0.854	0.220	2	12/09/21 21:57	12/13/21 20:25	EPA 3050B	1,6010D	BV
Iron, Total	2930		mg/kg	4.27	0.772	2	12/09/21 21:57	12/13/21 20:25	EPA 3050B	1,6010D	BV
Lead, Total	2.88	J	mg/kg	4.27	0.229	2	12/09/21 21:57	12/13/21 20:25	EPA 3050B	1,6010D	BV
Magnesium, Total	13400		mg/kg	8.54	1.32	2	12/09/21 21:57	12/13/21 20:25	EPA 3050B	1,6010D	BV
Manganese, Total	36.1		mg/kg	0.854	0.136	2	12/09/21 21:57	12/13/21 20:25	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.075	0.049	1	12/09/21 22:34	12/13/21 16:14	EPA 7471B	1,7471B	AC
Nickel, Total	4.73		mg/kg	2.14	0.207	2	12/09/21 21:57	12/13/21 20:25	EPA 3050B	1,6010D	BV
Potassium, Total	277		mg/kg	214	12.3	2	12/09/21 21:57	12/13/21 20:25	EPA 3050B	1,6010D	BV
Selenium, Total	0.239	J	mg/kg	1.71	0.220	2	12/09/21 21:57	12/13/21 20:25	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.854	0.242	2	12/09/21 21:57	12/13/21 20:25	EPA 3050B	1,6010D	BV
Sodium, Total	212		mg/kg	171	2.69	2	12/09/21 21:57	12/13/21 20:25	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.71	0.269	2	12/09/21 21:57	12/13/21 20:25	EPA 3050B	1,6010D	BV
Vanadium, Total	5.36		mg/kg	0.854	0.173	2	12/09/21 21:57	12/13/21 20:25	EPA 3050B	1,6010D	BV
Zinc, Total	7.71		mg/kg	4.27	0.250	2	12/09/21 21:57	12/13/21 20:25	EPA 3050B	1,6010D	BV

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-04
Client ID: SB28 1-3'
Sample Location: LOWER WEST SIDE MANHATTAN
Date Collected: 12/01/21 12:30
Date Received: 12/01/21
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	5810		mg/kg	8.97	2.42	2	12/09/21 21:57	12/13/21 20:30	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	4.48	0.341	2	12/09/21 21:57	12/13/21 20:30	EPA 3050B	1,6010D	BV
Arsenic, Total	2.13		mg/kg	0.897	0.186	2	12/09/21 21:57	12/13/21 20:30	EPA 3050B	1,6010D	BV
Barium, Total	129		mg/kg	0.897	0.156	2	12/09/21 21:57	12/13/21 20:30	EPA 3050B	1,6010D	BV
Beryllium, Total	0.296	J	mg/kg	0.448	0.030	2	12/09/21 21:57	12/13/21 20:30	EPA 3050B	1,6010D	BV
Cadmium, Total	0.493	J	mg/kg	0.897	0.088	2	12/09/21 21:57	12/13/21 20:30	EPA 3050B	1,6010D	BV
Calcium, Total	11500		mg/kg	8.97	3.14	2	12/09/21 21:57	12/13/21 20:30	EPA 3050B	1,6010D	BV
Chromium, Total	20.0		mg/kg	0.897	0.086	2	12/09/21 21:57	12/13/21 20:30	EPA 3050B	1,6010D	BV
Cobalt, Total	10.3		mg/kg	1.79	0.149	2	12/09/21 21:57	12/13/21 20:30	EPA 3050B	1,6010D	BV
Copper, Total	24.4		mg/kg	0.897	0.231	2	12/09/21 21:57	12/13/21 20:30	EPA 3050B	1,6010D	BV
Iron, Total	14100		mg/kg	4.48	0.810	2	12/09/21 21:57	12/13/21 20:30	EPA 3050B	1,6010D	BV
Lead, Total	55.8		mg/kg	4.48	0.240	2	12/09/21 21:57	12/13/21 20:30	EPA 3050B	1,6010D	BV
Magnesium, Total	12300		mg/kg	8.97	1.38	2	12/09/21 21:57	12/13/21 20:30	EPA 3050B	1,6010D	BV
Manganese, Total	232		mg/kg	0.897	0.143	2	12/09/21 21:57	12/13/21 20:30	EPA 3050B	1,6010D	BV
Mercury, Total	0.276		mg/kg	0.077	0.050	1	12/09/21 22:34	12/13/21 16:17	EPA 7471B	1,7471B	AC
Nickel, Total	99.0		mg/kg	2.24	0.217	2	12/09/21 21:57	12/13/21 20:30	EPA 3050B	1,6010D	BV
Potassium, Total	2590		mg/kg	224	12.9	2	12/09/21 21:57	12/13/21 20:30	EPA 3050B	1,6010D	BV
Selenium, Total	ND		mg/kg	1.79	0.231	2	12/09/21 21:57	12/13/21 20:30	EPA 3050B	1,6010D	BV
Silver, Total	0.466	J	mg/kg	0.897	0.254	2	12/09/21 21:57	12/13/21 20:30	EPA 3050B	1,6010D	BV
Sodium, Total	142	J	mg/kg	179	2.82	2	12/09/21 21:57	12/13/21 20:30	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.79	0.282	2	12/09/21 21:57	12/13/21 20:30	EPA 3050B	1,6010D	BV
Vanadium, Total	18.2		mg/kg	0.897	0.182	2	12/09/21 21:57	12/13/21 20:30	EPA 3050B	1,6010D	BV
Zinc, Total	69.3		mg/kg	4.48	0.263	2	12/09/21 21:57	12/13/21 20:30	EPA 3050B	1,6010D	BV

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1580832-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	12/09/21 21:57	12/13/21 18:54	1,6010D	BV
Antimony, Total	ND		mg/kg	2.00	0.152	1	12/09/21 21:57	12/13/21 18:54	1,6010D	BV
Arsenic, Total	ND		mg/kg	0.400	0.083	1	12/09/21 21:57	12/13/21 18:54	1,6010D	BV
Barium, Total	ND		mg/kg	0.400	0.070	1	12/09/21 21:57	12/13/21 18:54	1,6010D	BV
Beryllium, Total	ND		mg/kg	0.200	0.013	1	12/09/21 21:57	12/13/21 18:54	1,6010D	BV
Cadmium, Total	ND		mg/kg	0.400	0.039	1	12/09/21 21:57	12/13/21 18:54	1,6010D	BV
Calcium, Total	ND		mg/kg	4.00	1.40	1	12/09/21 21:57	12/13/21 18:54	1,6010D	BV
Chromium, Total	ND		mg/kg	0.400	0.038	1	12/09/21 21:57	12/13/21 18:54	1,6010D	BV
Cobalt, Total	ND		mg/kg	0.800	0.066	1	12/09/21 21:57	12/13/21 18:54	1,6010D	BV
Copper, Total	ND		mg/kg	0.400	0.103	1	12/09/21 21:57	12/13/21 18:54	1,6010D	BV
Iron, Total	0.392	J	mg/kg	2.00	0.361	1	12/09/21 21:57	12/13/21 18:54	1,6010D	BV
Lead, Total	ND		mg/kg	2.00	0.107	1	12/09/21 21:57	12/13/21 18:54	1,6010D	BV
Magnesium, Total	ND		mg/kg	4.00	0.616	1	12/09/21 21:57	12/13/21 18:54	1,6010D	BV
Manganese, Total	ND		mg/kg	0.400	0.064	1	12/09/21 21:57	12/13/21 18:54	1,6010D	BV
Nickel, Total	ND		mg/kg	1.00	0.097	1	12/09/21 21:57	12/13/21 18:54	1,6010D	BV
Potassium, Total	ND		mg/kg	100	5.76	1	12/09/21 21:57	12/13/21 18:54	1,6010D	BV
Selenium, Total	ND		mg/kg	0.800	0.103	1	12/09/21 21:57	12/13/21 18:54	1,6010D	BV
Silver, Total	ND		mg/kg	0.400	0.113	1	12/09/21 21:57	12/13/21 18:54	1,6010D	BV
Sodium, Total	5.10	J	mg/kg	80.0	1.26	1	12/09/21 21:57	12/13/21 18:54	1,6010D	BV
Thallium, Total	ND		mg/kg	0.800	0.126	1	12/09/21 21:57	12/13/21 18:54	1,6010D	BV
Vanadium, Total	ND		mg/kg	0.400	0.081	1	12/09/21 21:57	12/13/21 18:54	1,6010D	BV
Zinc, Total	ND		mg/kg	2.00	0.117	1	12/09/21 21:57	12/13/21 18:54	1,6010D	BV

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): 01-04 Batch: WG1580833-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	12/09/21 22:34	12/13/21 15:08	1,7471B	AC

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2165829

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1580832-2 SRM Lot Number: D109-540								
Aluminum, Total	62		-		50-150	-		
Antimony, Total	115		-		19-250	-		
Arsenic, Total	101		-		70-130	-		
Barium, Total	93		-		75-125	-		
Beryllium, Total	98		-		75-125	-		
Cadmium, Total	100		-		75-125	-		
Calcium, Total	93		-		73-128	-		
Chromium, Total	97		-		70-130	-		
Cobalt, Total	101		-		75-125	-		
Copper, Total	97		-		75-125	-		
Iron, Total	89		-		35-165	-		
Lead, Total	97		-		72-128	-		
Magnesium, Total	81		-		62-138	-		
Manganese, Total	92		-		74-126	-		
Nickel, Total	100		-		70-130	-		
Potassium, Total	81		-		59-141	-		
Selenium, Total	99		-		68-132	-		
Silver, Total	99		-		68-131	-		
Sodium, Total	97		-		35-165	-		
Thallium, Total	96		-		68-131	-		
Vanadium, Total	95		-		59-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2165829

Report Date: 12/16/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1580832-2 SRM Lot Number: D109-540					
Zinc, Total	96	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1580833-2 SRM Lot Number: D109-540					
Mercury, Total	106	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2165829
Report Date: 12/16/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1580832-3 QC Sample: L2165829-01 Client ID: SB30 1-3'												
Aluminum, Total	1890	163	2510	**381**	Q	-	-		75-125	-		20
Antimony, Total	ND	40.7	33.7	83		-	-		75-125	-		20
Arsenic, Total	2.36	9.77	11.6	94		-	-		75-125	-		20
Barium, Total	25.2	163	191	102		-	-		75-125	-		20
Beryllium, Total	0.090J	4.07	4.12	101		-	-		75-125	-		20
Cadmium, Total	0.187J	4.31	4.39	102		-	-		75-125	-		20
Calcium, Total	4110	814	5320	**149**	Q	-	-		75-125	-		20
Chromium, Total	6.73	16.3	23.1	100		-	-		75-125	-		20
Cobalt, Total	3.01	40.7	40.1	91		-	-		75-125	-		20
Copper, Total	8.04	20.4	28.6	101		-	-		75-125	-		20
Iron, Total	5870	81.4	5480	**0**	Q	-	-		75-125	-		20
Lead, Total	22.1	43.1	64.2	98		-	-		75-125	-		20
Magnesium, Total	2250	814	3210	118		-	-		75-125	-		20
Manganese, Total	89.8	40.7	147	**140**	Q	-	-		75-125	-		20
Nickel, Total	12.6	40.7	52.7	98		-	-		75-125	-		20
Potassium, Total	645	814	1640	122		-	-		75-125	-		20
Selenium, Total	ND	9.77	9.30	95		-	-		75-125	-		20
Silver, Total	ND	24.4	25.2	103		-	-		75-125	-		20
Sodium, Total	70.8J	814	934	115		-	-		75-125	-		20
Thallium, Total	ND	9.77	8.77	90		-	-		75-125	-		20
Vanadium, Total	7.45	40.7	47.6	99		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2165829
Report Date: 12/16/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1580832-3 QC Sample: L2165829-01 Client ID: SB30 1-3'									
Zinc, Total	26.5	40.7	67.1	100	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1580833-3 QC Sample: L2165829-01 Client ID: SB30 1-3'									
Mercury, Total	0.108	0.148	0.244	92	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2165829
Report Date: 12/16/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1580832-4 QC Sample: L2165829-01 Client ID: SB30 1-3'						
Aluminum, Total	1890	1970	mg/kg	4		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	2.36	1.70	mg/kg	**33**	Q	20
Barium, Total	25.2	22.8	mg/kg	10		20
Beryllium, Total	0.090J	0.106J	mg/kg	NC		20
Cadmium, Total	0.187J	0.172J	mg/kg	NC		20
Calcium, Total	4110	3240	mg/kg	**24**	Q	20
Chromium, Total	6.73	6.81	mg/kg	1		20
Cobalt, Total	3.01	3.04	mg/kg	1		20
Copper, Total	8.04	8.65	mg/kg	7		20
Iron, Total	5870	4990	mg/kg	16		20
Lead, Total	22.1	22.6	mg/kg	2		20
Magnesium, Total	2250	2320	mg/kg	3		20
Manganese, Total	89.8	94.7	mg/kg	5		20
Nickel, Total	12.6	16.7	mg/kg	**28**	Q	20
Potassium, Total	645	686	mg/kg	6		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	70.8J	76.7J	mg/kg	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2165829
Report Date: 12/16/21

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1580832-4 QC Sample: L2165829-01 Client ID: SB30 1-3'						
Thallium, Total	ND	ND	mg/kg	NC		20
Vanadium, Total	7.45	7.22	mg/kg	3		20
Zinc, Total	26.5	32.7	mg/kg	**21**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1580833-4 QC Sample: L2165829-01 Client ID: SB30 1-3'						
Mercury, Total	0.108	0.085	mg/kg	**24**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-01
Client ID: SB30 1-3'
Sample Location: LOWER WEST SIDE MANHATTAN
Sample Depth:
Matrix: Soil
Date Collected: 12/01/21 09:45
Date Received: 12/01/21
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	95.6		%	0.100	NA	1	-	12/02/21 11:12	121,2540G	RI
Cyanide, Total	ND		mg/kg	0.97	0.20	1	12/07/21 16:30	12/08/21 09:33	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.837	0.167	1	12/08/21 10:15	12/10/21 16:42	1,7196A	NL

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-02
Client ID: SB29 1-3'
Sample Location: LOWER WEST SIDE MANHATTAN
Sample Depth:
Matrix: Soil
Date Collected: 12/01/21 11:00
Date Received: 12/01/21
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	91.9		%	0.100	NA	1	-	12/02/21 11:12	121,2540G	RI
Cyanide, Total	0.87	J	mg/kg	1.0	0.22	1	12/07/21 16:30	12/08/21 09:36	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.870	0.174	1	12/08/21 10:15	12/10/21 16:42	1,7196A	NL

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-03
Client ID: SB29 10-12'
Sample Location: LOWER WEST SIDE MANHATTAN
Sample Depth:
Matrix: Soil
Date Collected: 12/01/21 11:15
Date Received: 12/01/21
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	91.5		%	0.100	NA	1	-	12/02/21 11:12	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	12/07/21 16:30	12/08/21 09:37	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.874	0.175	1	12/08/21 10:15	12/10/21 16:42	1,7196A	NL

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2165829-04
Client ID: SB28 1-3'
Sample Location: LOWER WEST SIDE MANHATTAN
Sample Depth:
Matrix: Soil
Date Collected: 12/01/21 12:30
Date Received: 12/01/21
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	87.3		%	0.100	NA	1	-	12/02/21 11:12	121,2540G	RI
Cyanide, Total	0.30	J	mg/kg	1.1	0.24	1	12/09/21 05:20	12/09/21 13:51	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.916	0.183	1	12/08/21 10:15	12/10/21 16:42	1,7196A	NL

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2165829
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1580187-1										
Cyanide, Total	ND		mg/kg	0.98	0.21	1	12/07/21 16:30	12/08/21 09:10	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1580297-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	12/08/21 10:15	12/10/21 16:42	1,7196A	NL
General Chemistry - Westborough Lab for sample(s): 04 Batch: WG1580935-1										
Cyanide, Total	ND		mg/kg	0.87	0.18	1	12/09/21 05:20	12/09/21 13:33	1,9010C/9012B	CS

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2165829

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1580187-2 WG1580187-3								
Cyanide, Total	102		93		80-120	5		35
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1580297-2								
Chromium, Hexavalent	81		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 04 Batch: WG1580935-2 WG1580935-3								
Cyanide, Total	**79**	Q	89		80-120	12		35

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2165829
Report Date: 12/16/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1580187-4 WG1580187-5 QC Sample: L2165829-01 Client ID: SB30 1-3'												
Cyanide, Total	ND	10	13	**130**	Q	13	**130**	Q	75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1580297-4 QC Sample: L2165829-03 Client ID: SB29 10-12'												
Chromium, Hexavalent	ND	1200	1150	96		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1580935-4 WG1580935-5 QC Sample: L2167316-01 Client ID: MS Sample												
Cyanide, Total	ND	10	10	95		11	110		75-125	10		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2165829
Report Date: 12/16/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1578221-1 QC Sample: L2165397-01 Client ID: DUP Sample						
Solids, Total	90.3	90.0	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1580297-6 QC Sample: L2165829-03 Client ID: SB29 10-12'						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2165829
Report Date: 12/16/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2165829-01A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L2165829-01B	Vial water preserved	A	NA		4.7	Y	Absent	02-DEC-21 09:55	NYTCL-8260HLW(14)
L2165829-01C	Vial water preserved	A	NA		4.7	Y	Absent	02-DEC-21 09:55	NYTCL-8260HLW(14)
L2165829-01D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L2165829-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	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),SE-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),MN-TI(180),HG-T(28),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2165829-01F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2165829-01G	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2165829-01H	Glass 250ml/8oz unpreserved	A	NA		4.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2165829-02A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L2165829-02B	Vial water preserved	A	NA		4.7	Y	Absent	02-DEC-21 09:55	NYTCL-8260HLW(14)
L2165829-02C	Vial water preserved	A	NA		4.7	Y	Absent	02-DEC-21 09:55	NYTCL-8260HLW(14)
L2165829-02D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L2165829-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),FE-TI(180),MN-TI(180),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2165829-02F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2165829-02G	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2165829-02H	Glass 250ml/8oz unpreserved	A	NA		4.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*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(*)
L2165829-03A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L2165829-03B	Vial water preserved	A	NA		4.7	Y	Absent	02-DEC-21 09:55	NYTCL-8260HLW(14)
L2165829-03C	Vial water preserved	A	NA		4.7	Y	Absent	02-DEC-21 09:55	NYTCL-8260HLW(14)
L2165829-03D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L2165829-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MN-TI(180),MG-TI(180),HG-T(28),FE-TI(180),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2165829-03F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2165829-03G	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2165829-03H	Glass 250ml/8oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2165829-04A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L2165829-04B	Vial water preserved	A	NA		4.7	Y	Absent	02-DEC-21 09:55	NYTCL-8260HLW(14)
L2165829-04C	Vial water preserved	A	NA		4.7	Y	Absent	02-DEC-21 09:55	NYTCL-8260HLW(14)
L2165829-04D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L2165829-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),MG-TI(180),HG-T(28),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2165829-04F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2165829-04G	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2165829-04H	Glass 250ml/8oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name:	BATTERY PARK	**Lab Number:**	L2165829
Project Number:	20-1152	**Report Date:**	12/16/21

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:	BATTERY PARK	**Lab Number:**	L2165829
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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. 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.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	BATTERY PARK	**Lab Number:**	L2165829
Project Number:	20-1152	**Report Date:**	12/16/21

Data Qualifiers

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:	BATTERY PARK	**Lab Number:**	L2165829
Project Number:	20-1152	**Report Date:**	12/16/21

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 of

Date Rec'd in Lab: 12/1/21

ALPHA Job #: L2165829

Client Information
Client: Matrix
Address: 333 W 34th St
New York, NY 10018
Phone:
Fax:
Email: BCrespi@MNWE.com

Project Information
Project Name: Battery Park
Project Location: Lower West Side, Manhattan
Project #: 20-1152
(Use Project name as Project #) ☐
Project Manager: Brian Crespi
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

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	TCL VOC	TCLSVOC	TCL Pesticide	TAL Metals	Cyanide / Hexavalent Chromium	TCL PCB	Total Solids	Total Bottle	Sample Specific Comments
L5829-01	SB30 1-3'	12-1-21	09:45	S	PV	/	/	/	/	/	/	/		
-02	SB29 1-3'	↓	11:00	S	↓	/	/	/	/	/	/	/		
-03	SB29 10-12'		11:15	S		/	/	/	/	/	/	/		
-04	SB28 1-3'		12:30	S		/	/	/	/	/	/	/		

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

Container Type									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
	12-1-21	MSM (mm)	12/1/21 13:26
MSM (Courier)	12/1/21 16:40	AAC	12/1 1930
AAC	12/1		
AAC	12/1/21 23:45	AAC	12/1/21 21:30
			12/1/21 2345

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)

ANALYTICAL REPORT

Lab Number:	L2166146
Client:	Matrix New World Engineering, Inc. 333 West 39th Street, Second Floor New York City, NY 10018
ATTN:	Brian Crespi
Phone:	(212) 324-4251
Project Name:	BATTERY PARK
Project Number:	20-1152
Report Date:	12/16/21

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

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

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166146
Report Date: 12/16/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2166146-01	SB-27 1-3	SOIL	MANHATTAN, NY	12/02/21 08:30	12/02/21
L2166146-02	SB-26 1-3	SOIL	MANHATTAN, NY	12/02/21 10:30	12/02/21
L2166146-03	SB-26 10-12	SOIL	MANHATTAN, NY	12/02/21 11:00	12/02/21
L2166146-04	SB-25 1-3	SOIL	MANHATTAN, NY	12/02/21 12:00	12/02/21
L2166146-05	COMP 01 (30,29,28)	SOIL	MANHATTAN, NY	12/02/21 08:40	12/02/21
L2166146-06	COMP 02 (27,26,25)	SOIL	MANHATTAN, NY	12/02/21 12:15	12/02/21

Project Name:	BATTERY PARK	**Lab Number:**	L2166146
Project Number:	20-1152	**Report Date:**	12/16/21

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: BATTERY PARK **Lab Number:** L2166146
Project Number: 20-1152 **Report Date:** 12/16/21

Case Narrative (continued)

Report Submission

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

Semivolatile Organics

The WG1582136-2/-3 LCS/LCSD recoveries, associated with L2166146-01 through -04, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Total Metals

L2166146-01 through -04: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

Cyanide, Total

The WG1580429-2 LCS recovery for cyanide, total (76%), associated with L2166146-01 through -04, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1580429-4/-5 MS/MSD recoveries, performed on L2166146-04, are outside the acceptance criteria for cyanide, total (130%/3600%). The WG1580429-4/-5 MS/MSD RPD is above the acceptance criteria for cyanide, total (141%).

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: Cristin Walker

Title: Technical Director/Representative Date: 12/16/21

ORGANICS

VOLATILES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-01
Client ID: SB-27 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/02/21 08:30
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/12/21 16:53
Analyst: JC
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	0.28	J	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	0.13	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	0.71	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
1,3-Dichloropropene, Total	ND		ug/kg	0.51	0.16	1
1,1-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	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.95	1
Bromomethane	ND		ug/kg	2.0	0.59	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

Project Name: BATTERY PARK **Lab Number:** L2166146

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-01 Date Collected: 12/02/21 08:30

Client ID: SB-27 1-3 Date Received: 12/02/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
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	0.57	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.93	1
Acetone	ND		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.51	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.1	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.1	0.66	1
Acrylonitrile	ND		ug/kg	4.1	1.2	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-01
Client ID: SB-27 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/02/21 08:30
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.17	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	81	36.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.1	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	103		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-02
Client ID: SB-26 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/02/21 10:30
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/12/21 17:19
Analyst: JC
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.8	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	0.42	J	ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.4	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.36	1
Tetrachloroethene	ND		ug/kg	0.68	0.26	1
Chlorobenzene	ND		ug/kg	0.68	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.94	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.68	0.22	1
Bromodichloromethane	ND		ug/kg	0.68	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.68	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.68	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.68	0.22	1
Bromoform	ND		ug/kg	5.4	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.68	0.22	1
Benzene	ND		ug/kg	0.68	0.22	1
Toluene	ND		ug/kg	1.4	0.73	1
Ethylbenzene	ND		ug/kg	1.4	0.19	1
Chloromethane	ND		ug/kg	5.4	1.3	1
Bromomethane	ND		ug/kg	2.7	0.79	1
Vinyl chloride	ND		ug/kg	1.4	0.45	1
Chloroethane	ND		ug/kg	2.7	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: BATTERY PARK **Lab Number:** L2166146

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-02 Date Collected: 12/02/21 10:30

Client ID: SB-26 1-3 Date Received: 12/02/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.68	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.76	1
o-Xylene	ND		ug/kg	1.4	0.39	1
Xylenes, Total	ND		ug/kg	1.4	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.18	1
Dibromomethane	ND		ug/kg	2.7	0.32	1
Styrene	ND		ug/kg	1.4	0.26	1
Dichlorodifluoromethane	ND		ug/kg	14	1.2	1
Acetone	ND		ug/kg	14	6.5	1
Carbon disulfide	ND		ug/kg	14	6.2	1
2-Butanone	ND		ug/kg	14	3.0	1
Vinyl acetate	ND		ug/kg	14	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.7	0.17	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
2,2-Dichloropropane	ND		ug/kg	2.7	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.38	1
1,3-Dichloropropane	ND		ug/kg	2.7	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.68	0.18	1
Bromobenzene	ND		ug/kg	2.7	0.20	1
n-Butylbenzene	ND		ug/kg	1.4	0.22	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
tert-Butylbenzene	ND		ug/kg	2.7	0.16	1
o-Chlorotoluene	ND		ug/kg	2.7	0.26	1
p-Chlorotoluene	ND		ug/kg	2.7	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.23	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.4	0.88	1
Acrylonitrile	ND		ug/kg	5.4	1.6	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-02
Client ID: SB-26 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/02/21 10:30
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.44	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.37	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.45	1
1,4-Dioxane	ND		ug/kg	110	47.	1
p-Diethylbenzene	ND		ug/kg	2.7	0.24	1
p-Ethyltoluene	ND		ug/kg	2.7	0.52	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.7	0.26	1
Ethyl ether	ND		ug/kg	2.7	0.46	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.8	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	110		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-03
Client ID: SB-26 10-12
Sample Location: MANHATTAN, NY
Date Collected: 12/02/21 11:00
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/12/21 17:45
Analyst: JC
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.7	3.5	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.22	1
Chloroform	0.46	J	ug/kg	2.3	0.22	1
Carbon tetrachloride	ND		ug/kg	1.5	0.36	1
1,2-Dichloropropane	ND		ug/kg	1.5	0.19	1
Dibromochloromethane	ND		ug/kg	1.5	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.41	1
Tetrachloroethene	ND		ug/kg	0.77	0.30	1
Chlorobenzene	ND		ug/kg	0.77	0.20	1
Trichlorofluoromethane	ND		ug/kg	6.2	1.1	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.40	1
1,1,1-Trichloroethane	ND		ug/kg	0.77	0.26	1
Bromodichloromethane	ND		ug/kg	0.77	0.17	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.42	1
cis-1,3-Dichloropropene	ND		ug/kg	0.77	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	0.77	0.24	1
1,1-Dichloropropene	ND		ug/kg	0.77	0.24	1
Bromoform	ND		ug/kg	6.2	0.38	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.77	0.26	1
Benzene	ND		ug/kg	0.77	0.26	1
Toluene	ND		ug/kg	1.5	0.84	1
Ethylbenzene	ND		ug/kg	1.5	0.22	1
Chloromethane	ND		ug/kg	6.2	1.4	1
Bromomethane	ND		ug/kg	3.1	0.90	1
Vinyl chloride	ND		ug/kg	1.5	0.52	1
Chloroethane	ND		ug/kg	3.1	0.70	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.21	1

Project Name: BATTERY PARK **Lab Number:** L2166146

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-03 Date Collected: 12/02/21 11:00

Client ID: SB-26 10-12 Date Received: 12/02/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.77	0.21	1
1,2-Dichlorobenzene	ND		ug/kg	3.1	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	3.1	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	3.1	0.26	1
Methyl tert butyl ether	ND		ug/kg	3.1	0.31	1
p/m-Xylene	ND		ug/kg	3.1	0.87	1
o-Xylene	ND		ug/kg	1.5	0.45	1
Xylenes, Total	ND		ug/kg	1.5	0.45	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.27	1
1,2-Dichloroethene, Total	ND		ug/kg	1.5	0.21	1
Dibromomethane	ND		ug/kg	3.1	0.37	1
Styrene	ND		ug/kg	1.5	0.30	1
Dichlorodifluoromethane	ND		ug/kg	15	1.4	1
Acetone	ND		ug/kg	15	7.4	1
Carbon disulfide	ND		ug/kg	15	7.0	1
2-Butanone	ND		ug/kg	15	3.4	1
Vinyl acetate	ND		ug/kg	15	3.3	1
4-Methyl-2-pentanone	ND		ug/kg	15	2.0	1
1,2,3-Trichloropropane	ND		ug/kg	3.1	0.20	1
2-Hexanone	ND		ug/kg	15	1.8	1
Bromochloromethane	ND		ug/kg	3.1	0.32	1
2,2-Dichloropropane	ND		ug/kg	3.1	0.31	1
1,2-Dibromoethane	ND		ug/kg	1.5	0.43	1
1,3-Dichloropropane	ND		ug/kg	3.1	0.26	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.77	0.20	1
Bromobenzene	ND		ug/kg	3.1	0.22	1
n-Butylbenzene	ND		ug/kg	1.5	0.26	1
sec-Butylbenzene	ND		ug/kg	1.5	0.22	1
tert-Butylbenzene	ND		ug/kg	3.1	0.18	1
o-Chlorotoluene	ND		ug/kg	3.1	0.30	1
p-Chlorotoluene	ND		ug/kg	3.1	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.6	1.5	1
Hexachlorobutadiene	ND		ug/kg	6.2	0.26	1
Isopropylbenzene	ND		ug/kg	1.5	0.17	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.17	1
Naphthalene	ND		ug/kg	6.2	1.0	1
Acrylonitrile	ND		ug/kg	6.2	1.8	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-03
Client ID: SB-26 10-12
Sample Location: MANHATTAN, NY
Date Collected: 12/02/21 11:00
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.5	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.1	0.50	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.1	0.42	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.1	0.30	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.1	0.52	1
1,4-Dioxane	ND		ug/kg	120	54.	1
p-Diethylbenzene	ND		ug/kg	3.1	0.27	1
p-Ethyltoluene	ND		ug/kg	3.1	0.59	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.1	0.30	1
Ethyl ether	ND		ug/kg	3.1	0.53	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.7	2.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	111		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-04
Client ID: SB-25 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/02/21 12:00
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/12/21 18:11
Analyst: JC
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	0.34	J	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	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.77	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.18	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.18	1
Benzene	ND		ug/kg	0.56	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	0.65	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	1.7	0.15	1

Project Name: BATTERY PARK **Lab Number:** L2166146

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-04 Date Collected: 12/02/21 12:00

Client ID: SB-25 1-3 Date Received: 12/02/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
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
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.72	1
Acrylonitrile	ND		ug/kg	4.4	1.3	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-04
Client ID: SB-25 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/02/21 12:00
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	89	39.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.43	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	109		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-05
Client ID: COMP 01 (30,29,28)
Sample Location: MANHATTAN, NY
Date Collected: 12/02/21 08:40
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/07/21 20:52
Analyst: MM

TCLP/SPLP Ext. Date: 12/05/21 11:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	86		70-130
4-Bromofluorobenzene	89		70-130
dibromofluoromethane	118		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-06
Client ID: COMP 02 (27,26,25)
Sample Location: MANHATTAN, NY
Date Collected: 12/02/21 12:15
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/07/21 21:16
Analyst: MM

TCLP/SPLP Ext. Date: 12/05/21 11:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	83		70-130
4-Bromofluorobenzene	90		70-130
dibromofluoromethane	117		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/07/21 16:28
Analyst: TMS
TCLP/SPLP Extraction Date: 12/05/21 11:51

Extraction Date: 12/05/21 11:51

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 05-06 Batch: WG1580482-5					
Chloroform	ND		ug/l	7.5	2.2
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	94		70-130
dibromofluoromethane	114		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/12/21 15:09
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04 Batch: WG1582483-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.36	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.64	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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/12/21 15:09
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04 Batch: WG1582483-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/12/21 15:09
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04 Batch: WG1582483-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166146

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 05-06 Batch: WG1580482-3 WG1580482-4								
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	130		130		63-132	0		20
Tetrachloroethene	120		110		70-130	9		20
Chlorobenzene	97		97		75-130	0		25
1,2-Dichloroethane	110		110		70-130	0		20
Benzene	100		99		70-130	1		25
Vinyl chloride	83		80		55-140	4		20
1,1-Dichloroethene	100		100		61-145	0		25
Trichloroethene	110		110		70-130	0		25
1,4-Dichlorobenzene	95		97		70-130	2		20
2-Butanone	84		90		63-138	7		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	110		112		70-130
Toluene-d8	96		97		70-130
4-Bromofluorobenzene	90		90		70-130
dibromofluoromethane	107		110		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166146

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1582483-3 WG1582483-4								
Methylene chloride	92		90		70-130	2		30
1,1-Dichloroethane	93		91		70-130	2		30
Chloroform	106		103		70-130	3		30
Carbon tetrachloride	106		102		70-130	4		30
1,2-Dichloropropane	89		88		70-130	1		30
Dibromochloromethane	93		92		70-130	1		30
1,1,2-Trichloroethane	105		104		70-130	1		30
Tetrachloroethene	109		104		70-130	5		30
Chlorobenzene	100		98		70-130	2		30
Trichlorofluoromethane	138		**143**	Q	70-139	4		30
1,2-Dichloroethane	98		98		70-130	0		30
1,1,1-Trichloroethane	107		104		70-130	3		30
Bromodichloromethane	107		106		70-130	1		30
trans-1,3-Dichloropropene	100		99		70-130	1		30
cis-1,3-Dichloropropene	95		101		70-130	6		30
1,1-Dichloropropene	107		102		70-130	5		30
Bromoform	95		96		70-130	1		30
1,1,2,2-Tetrachloroethane	101		103		70-130	2		30
Benzene	100		97		70-130	3		30
Toluene	103		98		70-130	5		30
Ethylbenzene	109		104		70-130	5		30
Chloromethane	80		80		52-130	0		30
Bromomethane	138		140		57-147	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166146
Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1582483-3 WG1582483-4								
Vinyl chloride	109		113		67-130	4		30
Chloroethane	**174**	Q	**176**	Q	50-151	1		30
1,1-Dichloroethene	101		97		65-135	4		30
trans-1,2-Dichloroethene	96		94		70-130	2		30
Trichloroethene	102		99		70-130	3		30
1,2-Dichlorobenzene	99		97		70-130	2		30
1,3-Dichlorobenzene	102		99		70-130	3		30
1,4-Dichlorobenzene	99		96		70-130	3		30
Methyl tert butyl ether	100		101		66-130	1		30
p/m-Xylene	110		105		70-130	5		30
o-Xylene	110		106		70-130	4		30
cis-1,2-Dichloroethene	96		94		70-130	2		30
Dibromomethane	98		98		70-130	0		30
Styrene	115		111		70-130	4		30
Dichlorodifluoromethane	121		122		30-146	1		30
Acetone	62		65		54-140	5		30
Carbon disulfide	101		95		59-130	6		30
2-Butanone	**64**	Q	**65**	Q	70-130	2		30
Vinyl acetate	80		81		70-130	1		30
4-Methyl-2-pentanone	**68**	Q	**68**	Q	70-130	0		30
1,2,3-Trichloropropane	101		103		68-130	2		30
2-Hexanone	**61**	Q	**63**	Q	70-130	3		30
Bromochloromethane	93		92		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166146

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1582483-3 WG1582483-4								
2,2-Dichloropropane	110		106		70-130	4		30
1,2-Dibromoethane	92		92		70-130	0		30
1,3-Dichloropropane	103		103		69-130	0		30
1,1,1,2-Tetrachloroethane	108		104		70-130	4		30
Bromobenzene	98		95		70-130	3		30
n-Butylbenzene	114		109		70-130	4		30
sec-Butylbenzene	107		103		70-130	4		30
tert-Butylbenzene	102		97		70-130	5		30
o-Chlorotoluene	103		100		70-130	3		30
p-Chlorotoluene	103		100		70-130	3		30
1,2-Dibromo-3-chloropropane	78		78		68-130	0		30
Hexachlorobutadiene	110		106		67-130	4		30
Isopropylbenzene	104		100		70-130	4		30
p-Isopropyltoluene	106		102		70-130	4		30
Naphthalene	91		93		70-130	2		30
Acrylonitrile	75		78		70-130	4		30
n-Propylbenzene	109		105		70-130	4		30
1,2,3-Trichlorobenzene	102		101		70-130	1		30
1,2,4-Trichlorobenzene	104		101		70-130	3		30
1,3,5-Trimethylbenzene	105		102		70-130	3		30
1,2,4-Trimethylbenzene	106		102		70-130	4		30
1,4-Dioxane	79		87		65-136	10		30
p-Diethylbenzene	106		102		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166146

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1582483-3 WG1582483-4								
p-Ethyltoluene	105		102		70-130	3		30
1,2,4,5-Tetramethylbenzene	99		96		70-130	3		30
Ethyl ether	**133**	Q	**140**	Q	67-130	5		30
trans-1,4-Dichloro-2-butene	103		106		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		107		70-130
Toluene-d8	106		104		70-130
4-Bromofluorobenzene	95		96		70-130
Dibromofluoromethane	100		100		70-130

SEMIVOLATILES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-01
Client ID: SB-27 1-3
Sample Location: MANHATTAN, NY

Date Collected: 12/02/21 08:30
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/13/21 14:49
Analyst: IM
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 12/12/21 01:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	560		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: BATTERY PARK **Lab Number:** L2166146

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-01 Date Collected: 12/02/21 08:30

Client ID: SB-27 1-3 Date Received: 12/02/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	280		ug/kg	110	20.	1
Benzo(a)pyrene	270		ug/kg	140	44.	1
Benzo(b)fluoranthene	330		ug/kg	110	30.	1
Benzo(k)fluoranthene	120		ug/kg	110	29.	1
Chrysene	280		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	77	J	ug/kg	110	35.	1
Benzo(ghi)perylene	180		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	250		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	37	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	180		ug/kg	140	25.	1
Pyrene	500		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-01
Client ID: SB-27 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/02/21 08:30
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	19	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	58		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	56		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-02
Client ID: SB-26 1-3
Sample Location: MANHATTAN, NY

Date Collected: 12/02/21 10:30
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/13/21 15:13
Analyst: IM
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 12/12/21 01:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	33	J	ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	590		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: BATTERY PARK **Lab Number:** L2166146

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-02 Date Collected: 12/02/21 10:30

Client ID: SB-26 1-3 Date Received: 12/02/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	290		ug/kg	110	20.	1
Benzo(a)pyrene	270		ug/kg	140	44.	1
Benzo(b)fluoranthene	330		ug/kg	110	31.	1
Benzo(k)fluoranthene	130		ug/kg	110	29.	1
Chrysene	270		ug/kg	110	19.	1
Acenaphthylene	38	J	ug/kg	140	28.	1
Anthracene	97	J	ug/kg	110	35.	1
Benzo(ghi)perylene	180		ug/kg	140	21.	1
Fluorene	37	J	ug/kg	180	18.	1
Phenanthrene	360		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	43	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	190		ug/kg	140	25.	1
Pyrene	530		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	21	J	ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-02
Client ID: SB-26 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/02/21 10:30
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	36	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	96		10-136
4-Terphenyl-d14	76		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-03
Client ID: SB-26 10-12
Sample Location: MANHATTAN, NY

Date Collected: 12/02/21 11:00
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/13/21 15:37
Analyst: IM
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 12/12/21 01:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	35.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	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	170	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1

Project Name: BATTERY PARK **Lab Number:** L2166146

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-03 Date Collected: 12/02/21 11:00

Client ID: SB-26 10-12 Date Received: 12/02/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	37.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	40.	1
4-Chloroaniline	ND		ug/kg	170	32.	1
2-Nitroaniline	ND		ug/kg	170	34.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	84.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-03
Client ID: SB-26 10-12
Sample Location: MANHATTAN, NY
Date Collected: 12/02/21 11:00
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	170	54.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	8.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	71		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-04
Client ID: SB-25 1-3
Sample Location: MANHATTAN, NY

Date Collected: 12/02/21 12:00
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/13/21 16:01
Analyst: IM
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 12/12/21 01:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	420		ug/kg	110	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	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: BATTERY PARK **Lab Number:** L2166146

Project Number: 20-1152 **Report Date:** 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-04 Date Collected: 12/02/21 12:00

Client ID: SB-25 1-3 Date Received: 12/02/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	250		ug/kg	110	20.	1
Benzo(a)pyrene	240		ug/kg	140	44.	1
Benzo(b)fluoranthene	320		ug/kg	110	30.	1
Benzo(k)fluoranthene	94	J	ug/kg	110	28.	1
Chrysene	240		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	54	J	ug/kg	110	35.	1
Benzo(ghi)perylene	170		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	170		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	39	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	180		ug/kg	140	25.	1
Pyrene	400		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	86.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-04
Client ID: SB-25 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/02/21 12:00
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	59		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	54		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-05
Client ID: COMP 01 (30,29,28)
Sample Location: MANHATTAN, NY

Date Collected: 12/02/21 08:40
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/07/21 18:14
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 12/06/21 17:01

TCLP/SPLP Ext. Date: 12/05/21 11:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		21-120
Phenol-d6	58		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	80		10-120
4-Terphenyl-d14	79		33-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-06
Client ID: COMP 02 (27,26,25)
Sample Location: MANHATTAN, NY

Date Collected: 12/02/21 12:15
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/07/21 18:38
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 12/06/21 17:01

TCLP/SPLP Ext. Date: 12/05/21 11:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		21-120
Phenol-d6	64		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	91		10-120
4-Terphenyl-d14	86		33-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/07/21 13:06
Analyst: EK
TCLP/SPLP Extraction Date: 12/05/21 11:25

Extraction Method: EPA 3510C
Extraction Date: 12/06/21 17:01

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 05-06 Batch: WG1579789-1					
Hexachlorobenzene	ND		ug/l	10	3.4
2,4-Dinitrotoluene	ND		ug/l	25	1.9
Hexachlorobutadiene	ND		ug/l	10	3.0
Hexachloroethane	ND		ug/l	10	2.2
Nitrobenzene	ND		ug/l	10	3.3
2,4,6-Trichlorophenol	ND		ug/l	25	2.5
Pentachlorophenol	ND		ug/l	50	9.8
2-Methylphenol	ND		ug/l	25	5.5
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8
2,4,5-Trichlorophenol	ND		ug/l	25	1.9
Pyridine	ND		ug/l	18	4.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	51		23-120
2-Fluorobiphenyl	59		15-120
2,4,6-Tribromophenol	71		10-120
4-Terphenyl-d14	66		33-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/12/21 21:43
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 12/11/21 15:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1582136-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/12/21 21:43
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 12/11/21 15:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1582136-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/12/21 21:43
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 12/11/21 15:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1582136-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	73		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 05-06 Batch: WG1579789-2 WG1579789-3								
Hexachlorobenzene	47		61		40-140	26		30
2,4-Dinitrotoluene	48		62		40-132	25		30
Hexachlorobutadiene	45		59		28-111	27		30
Hexachloroethane	35		48		21-105	**31**	Q	30
Nitrobenzene	**38**	Q	49		40-140	25		30
2,4,6-Trichlorophenol	48		66		30-130	**32**	Q	30
Pentachlorophenol	46		62		9-103	30		30
2-Methylphenol	41		54		30-130	27		30
3-Methylphenol/4-Methylphenol	41		56		30-130	**31**	Q	30
2,4,5-Trichlorophenol	51		70		30-130	**31**	Q	30
Pyridine	18		12		10-66	**40**	Q	30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	46		60		21-120
Phenol-d6	38		49		10-120
Nitrobenzene-d5	40		52		23-120
2-Fluorobiphenyl	45		59		15-120
2,4,6-Tribromophenol	51		66		10-120
4-Terphenyl-d14	45		59		33-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166146

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1582136-2 WG1582136-3								
Acenaphthene	76		74		31-137	3		50
1,2,4-Trichlorobenzene	66		65		38-107	2		50
Hexachlorobenzene	72		72		40-140	0		50
Bis(2-chloroethyl)ether	63		61		40-140	3		50
2-Chloronaphthalene	70		72		40-140	3		50
1,2-Dichlorobenzene	68		65		40-140	5		50
1,3-Dichlorobenzene	67		64		40-140	5		50
1,4-Dichlorobenzene	67		65		28-104	3		50
3,3'-Dichlorobenzidine	61		57		40-140	7		50
2,4-Dinitrotoluene	82		82		40-132	0		50
2,6-Dinitrotoluene	84		88		40-140	5		50
Fluoranthene	79		76		40-140	4		50
4-Chlorophenyl phenyl ether	71		72		40-140	1		50
4-Bromophenyl phenyl ether	68		69		40-140	1		50
Bis(2-chloroisopropyl)ether	51		50		40-140	2		50
Bis(2-chloroethoxy)methane	62		60		40-117	3		50
Hexachlorobutadiene	66		64		40-140	3		50
Hexachlorocyclopentadiene	55		56		40-140	2		50
Hexachloroethane	71		67		40-140	6		50
Isophorone	62		62		40-140	0		50
Naphthalene	67		66		40-140	2		50
Nitrobenzene	74		72		40-140	3		50
NDPA/DPA	78		76		36-157	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166146

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1582136-2 WG1582136-3								
n-Nitrosodi-n-propylamine	65		63		32-121	3		50
Bis(2-ethylhexyl)phthalate	76		80		40-140	5		50
Butyl benzyl phthalate	95		90		40-140	5		50
Di-n-butylphthalate	76		78		40-140	3		50
Di-n-octylphthalate	83		84		40-140	1		50
Diethyl phthalate	76		77		40-140	1		50
Dimethyl phthalate	72		73		40-140	1		50
Benzo(a)anthracene	75		75		40-140	0		50
Benzo(a)pyrene	74		70		40-140	6		50
Benzo(b)fluoranthene	80		79		40-140	1		50
Benzo(k)fluoranthene	83		74		40-140	11		50
Chrysene	72		71		40-140	1		50
Acenaphthylene	67		68		40-140	1		50
Anthracene	75		74		40-140	1		50
Benzo(ghi)perylene	81		81		40-140	0		50
Fluorene	76		76		40-140	0		50
Phenanthrene	75		74		40-140	1		50
Dibenzo(a,h)anthracene	80		80		40-140	0		50
Indeno(1,2,3-cd)pyrene	80		80		40-140	0		50
Pyrene	80		78		35-142	3		50
Biphenyl	72		73		37-127	1		50
4-Chloroaniline	62		43		40-140	36		50
2-Nitroaniline	90		91		47-134	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166146

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1582136-2 WG1582136-3								
3-Nitroaniline	80		77		26-129	4		50
4-Nitroaniline	88		87		41-125	1		50
Dibenzofuran	74		72		40-140	3		50
2-Methylnaphthalene	68		66		40-140	3		50
1,2,4,5-Tetrachlorobenzene	69		69		40-117	0		50
Acetophenone	67		64		14-144	5		50
2,4,6-Trichlorophenol	76		76		30-130	0		50
p-Chloro-m-cresol	75		75		26-103	0		50
2-Chlorophenol	76		74		25-102	3		50
2,4-Dichlorophenol	76		76		30-130	0		50
2,4-Dimethylphenol	72		72		30-130	0		50
2-Nitrophenol	102		100		30-130	2		50
4-Nitrophenol	100		98		11-114	2		50
2,4-Dinitrophenol	36		31		4-130	15		50
4,6-Dinitro-o-cresol	91		90		10-130	1		50
Pentachlorophenol	56		57		17-109	2		50
Phenol	71		69		26-90	3		50
2-Methylphenol	73		70		30-130.	4		50
3-Methylphenol/4-Methylphenol	70		70		30-130	0		50
2,4,5-Trichlorophenol	78		82		30-130	5		50
Benzoic Acid	**0**	Q	**0**	Q	10-110	NC		50
Benzyl Alcohol	72		72		40-140	0		50
Carbazole	79		77		54-128	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166146

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1582136-2 WG1582136-3								
1,4-Dioxane	54		51		40-140	6		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	78		71		25-120
Phenol-d6	76		72		10-120
Nitrobenzene-d5	79		74		23-120
2-Fluorobiphenyl	68		68		30-120
2,4,6-Tribromophenol	80		80		10-136
4-Terphenyl-d14	77		75		18-120

PCBS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-01
Client ID: SB-27 1-3
Sample Location: MANHATTAN, NY

Date Collected: 12/02/21 08:30
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/13/21 16:39
Analyst: JAW
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 12/11/21 13:46
Cleanup Method: EPA 3665A
Cleanup Date: 12/11/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/11/21

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	4.64	1	A
Aroclor 1248	ND		ug/kg	34.5	5.17	1	A
Aroclor 1254	13.0	J	ug/kg	34.5	3.77	1	B
Aroclor 1260	8.56	J	ug/kg	34.5	6.37	1	B
Aroclor 1262	ND		ug/kg	34.5	4.38	1	A
Aroclor 1268	ND		ug/kg	34.5	3.57	1	A
PCBs, Total	21.6	J	ug/kg	34.5	3.06	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-02
Client ID: SB-26 1-3
Sample Location: MANHATTAN, NY

Date Collected: 12/02/21 10:30
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/13/21 16:47
Analyst: JAW
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 12/11/21 13:46
Cleanup Method: EPA 3665A
Cleanup Date: 12/11/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/11/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.6	3.16	1	A
Aroclor 1221	ND		ug/kg	35.6	3.57	1	A
Aroclor 1232	ND		ug/kg	35.6	7.56	1	A
Aroclor 1242	ND		ug/kg	35.6	4.80	1	A
Aroclor 1248	ND		ug/kg	35.6	5.35	1	A
Aroclor 1254	22.5	JP	ug/kg	35.6	3.90	1	B
Aroclor 1260	13.2	J	ug/kg	35.6	6.59	1	B
Aroclor 1262	ND		ug/kg	35.6	4.53	1	A
Aroclor 1268	ND		ug/kg	35.6	3.69	1	A
PCBs, Total	35.7	J	ug/kg	35.6	3.16	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-03
Client ID: SB-26 10-12
Sample Location: MANHATTAN, NY

Date Collected: 12/02/21 11:00
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/13/21 16:55
Analyst: JAW
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 12/11/21 13:46
Cleanup Method: EPA 3665A
Cleanup Date: 12/11/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/11/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.4	2.96	1	A
Aroclor 1221	ND		ug/kg	33.4	3.34	1	A
Aroclor 1232	ND		ug/kg	33.4	7.08	1	A
Aroclor 1242	ND		ug/kg	33.4	4.50	1	A
Aroclor 1248	ND		ug/kg	33.4	5.01	1	A
Aroclor 1254	ND		ug/kg	33.4	3.65	1	A
Aroclor 1260	ND		ug/kg	33.4	6.17	1	A
Aroclor 1262	ND		ug/kg	33.4	4.24	1	A
Aroclor 1268	ND		ug/kg	33.4	3.46	1	A
PCBs, Total	ND		ug/kg	33.4	2.96	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-04
Client ID: SB-25 1-3
Sample Location: MANHATTAN, NY

Date Collected: 12/02/21 12:00
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/13/21 16:31
Analyst: JAW
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 12/11/21 13:46
Cleanup Method: EPA 3665A
Cleanup Date: 12/11/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/11/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.8	3.18	1	A
Aroclor 1221	ND		ug/kg	35.8	3.59	1	A
Aroclor 1232	ND		ug/kg	35.8	7.59	1	A
Aroclor 1242	ND		ug/kg	35.8	4.82	1	A
Aroclor 1248	ND		ug/kg	35.8	5.37	1	A
Aroclor 1254	ND		ug/kg	35.8	3.92	1	A
Aroclor 1260	83.8		ug/kg	35.8	6.62	1	B
Aroclor 1262	ND		ug/kg	35.8	4.55	1	A
Aroclor 1268	ND		ug/kg	35.8	3.71	1	A
PCBs, Total	83.8		ug/kg	35.8	3.18	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 12/13/21 14:29
Analyst: CW

Extraction Method: EPA 3546
Extraction Date: 12/11/21 13:40
Cleanup Method: EPA 3665A
Cleanup Date: 12/11/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/11/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-04 Batch: WG1582124-1						
Aroclor 1016	ND		ug/kg	31.8	2.83	A
Aroclor 1221	ND		ug/kg	31.8	3.19	A
Aroclor 1232	ND		ug/kg	31.8	6.75	A
Aroclor 1242	ND		ug/kg	31.8	4.29	A
Aroclor 1248	ND		ug/kg	31.8	4.77	A
Aroclor 1254	ND		ug/kg	31.8	3.48	A
Aroclor 1260	ND		ug/kg	31.8	5.88	A
Aroclor 1262	ND		ug/kg	31.8	4.04	A
Aroclor 1268	ND		ug/kg	31.8	3.30	A
PCBs, Total	ND		ug/kg	31.8	2.83	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	98		30-150	B
Decachlorobiphenyl	92		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166146

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1582124-2 WG1582124-3									
Aroclor 1016	74		80		40-140	8		50	A
Aroclor 1260	72		77		40-140	7		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		95		30-150	A
Decachlorobiphenyl	84		91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		97		30-150	B
Decachlorobiphenyl	85		91		30-150	B

PESTICIDES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-01
Client ID: SB-27 1-3
Sample Location: MANHATTAN, NY

Date Collected: 12/02/21 08:30
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/13/21 13:47
Analyst: EJL
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 12/11/21 14:24
Cleanup Method: EPA 3620B
Cleanup Date: 12/12/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.74	0.342	1	A
Lindane	ND		ug/kg	0.727	0.325	1	A
Alpha-BHC	ND		ug/kg	0.727	0.206	1	A
Beta-BHC	ND		ug/kg	1.74	0.661	1	A
Heptachlor	ND		ug/kg	0.872	0.391	1	A
Aldrin	ND		ug/kg	1.74	0.614	1	A
Heptachlor epoxide	ND		ug/kg	3.27	0.981	1	A
Endrin	ND		ug/kg	0.727	0.298	1	A
Endrin aldehyde	ND		ug/kg	2.18	0.763	1	A
Endrin ketone	ND		ug/kg	1.74	0.449	1	A
Dieldrin	ND		ug/kg	1.09	0.545	1	A
4,4'-DDE	2.28		ug/kg	1.74	0.403	1	A
4,4'-DDD	ND		ug/kg	1.74	0.622	1	A
4,4'-DDT	1.95	JP	ug/kg	3.27	1.40	1	B
Endosulfan I	ND		ug/kg	1.74	0.412	1	A
Endosulfan II	ND		ug/kg	1.74	0.583	1	A
Endosulfan sulfate	ND		ug/kg	0.727	0.346	1	A
Methoxychlor	ND		ug/kg	3.27	1.02	1	A
Toxaphene	ND		ug/kg	32.7	9.16	1	A
cis-Chlordane	1.23	JP	ug/kg	2.18	0.607	1	A
trans-Chlordane	0.932	JIP	ug/kg	2.18	0.575	1	B
Chlordane	ND		ug/kg	14.5	5.78	1	A

Project Name: BATTERY PARK
Lab Number: L2166146
Project Number: 20-1152
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-01
Client ID: SB-27 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/02/21 08:30
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-02
Client ID: SB-26 1-3
Sample Location: MANHATTAN, NY

Date Collected: 12/02/21 10:30
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/13/21 13:58
Analyst: EJL
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 12/11/21 14:24
Cleanup Method: EPA 3620B
Cleanup Date: 12/12/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.66	0.326	1	A
Lindane	ND		ug/kg	0.693	0.310	1	A
Alpha-BHC	ND		ug/kg	0.693	0.197	1	A
Beta-BHC	ND		ug/kg	1.66	0.630	1	A
Heptachlor	ND		ug/kg	0.831	0.373	1	A
Aldrin	ND		ug/kg	1.66	0.585	1	A
Heptachlor epoxide	ND		ug/kg	3.12	0.935	1	A
Endrin	ND		ug/kg	0.693	0.284	1	A
Endrin aldehyde	ND		ug/kg	2.08	0.727	1	A
Endrin ketone	ND		ug/kg	1.66	0.428	1	A
Dieldrin	ND		ug/kg	1.04	0.519	1	A
4,4'-DDE	ND		ug/kg	1.66	0.384	1	A
4,4'-DDD	ND		ug/kg	1.66	0.593	1	A
4,4'-DDT	ND		ug/kg	3.12	1.34	1	A
Endosulfan I	ND		ug/kg	1.66	0.393	1	A
Endosulfan II	ND		ug/kg	1.66	0.556	1	A
Endosulfan sulfate	ND		ug/kg	0.693	0.330	1	A
Methoxychlor	ND		ug/kg	3.12	0.970	1	A
Toxaphene	ND		ug/kg	31.2	8.73	1	A
cis-Chlordane	0.765	J	ug/kg	2.08	0.579	1	A
trans-Chlordane	2.53	IP	ug/kg	2.08	0.548	1	A
Chlordane	ND		ug/kg	13.8	5.51	1	A

Project Name: BATTERY PARK
Lab Number: L2166146
Project Number: 20-1152
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-02
Client ID: SB-26 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/02/21 10:30
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	93		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-03
Client ID: SB-26 10-12
Sample Location: MANHATTAN, NY

Date Collected: 12/02/21 11:00
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/13/21 14:09
Analyst: EJL
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 12/11/21 14:24
Cleanup Method: EPA 3620B
Cleanup Date: 12/12/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.67	0.327	1	A
Lindane	ND		ug/kg	0.695	0.311	1	A
Alpha-BHC	ND		ug/kg	0.695	0.197	1	A
Beta-BHC	ND		ug/kg	1.67	0.632	1	A
Heptachlor	ND		ug/kg	0.834	0.374	1	A
Aldrin	ND		ug/kg	1.67	0.587	1	A
Heptachlor epoxide	ND		ug/kg	3.13	0.938	1	A
Endrin	ND		ug/kg	0.695	0.285	1	A
Endrin aldehyde	ND		ug/kg	2.08	0.730	1	A
Endrin ketone	ND		ug/kg	1.67	0.429	1	A
Dieldrin	ND		ug/kg	1.04	0.521	1	A
4,4'-DDE	ND		ug/kg	1.67	0.386	1	A
4,4'-DDD	ND		ug/kg	1.67	0.595	1	A
4,4'-DDT	ND		ug/kg	3.13	1.34	1	A
Endosulfan I	ND		ug/kg	1.67	0.394	1	A
Endosulfan II	ND		ug/kg	1.67	0.557	1	A
Endosulfan sulfate	ND		ug/kg	0.695	0.331	1	A
Methoxychlor	ND		ug/kg	3.13	0.973	1	A
Toxaphene	ND		ug/kg	31.3	8.76	1	A
cis-Chlordane	ND		ug/kg	2.08	0.581	1	A
trans-Chlordane	ND		ug/kg	2.08	0.550	1	A
Chlordane	ND		ug/kg	13.9	5.52	1	A

Project Name: BATTERY PARK
Lab Number: L2166146
Project Number: 20-1152
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-03
Client ID: SB-26 10-12
Sample Location: MANHATTAN, NY
Date Collected: 12/02/21 11:00
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	103		30-150	A
Decachlorobiphenyl	100		30-150	A
2,4,5,6-Tetrachloro-m-xylene	97		30-150	B
Decachlorobiphenyl	91		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-04
Client ID: SB-25 1-3
Sample Location: MANHATTAN, NY

Date Collected: 12/02/21 12:00
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/13/21 14:20
Analyst: EJL
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 12/11/21 14:24
Cleanup Method: EPA 3620B
Cleanup Date: 12/12/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.70	0.332	1	A
Lindane	ND		ug/kg	0.707	0.316	1	A
Alpha-BHC	ND		ug/kg	0.707	0.201	1	A
Beta-BHC	ND		ug/kg	1.70	0.644	1	A
Heptachlor	ND		ug/kg	0.849	0.380	1	A
Aldrin	ND		ug/kg	1.70	0.598	1	A
Heptachlor epoxide	ND		ug/kg	3.18	0.955	1	A
Endrin	ND		ug/kg	0.707	0.290	1	A
Endrin aldehyde	ND		ug/kg	2.12	0.742	1	A
Endrin ketone	ND		ug/kg	1.70	0.437	1	A
Dieldrin	6.69	P	ug/kg	1.06	0.530	1	B
4,4'-DDE	2.27		ug/kg	1.70	0.392	1	B
4,4'-DDD	ND		ug/kg	1.70	0.605	1	A
4,4'-DDT	ND		ug/kg	3.18	1.36	1	A
Endosulfan I	ND		ug/kg	1.70	0.401	1	A
Endosulfan II	ND		ug/kg	1.70	0.567	1	A
Endosulfan sulfate	ND		ug/kg	0.707	0.337	1	A
Methoxychlor	ND		ug/kg	3.18	0.990	1	A
Toxaphene	ND		ug/kg	31.8	8.91	1	A
cis-Chlordane	1.27	J	ug/kg	2.12	0.591	1	A
trans-Chlordane	2.23	P	ug/kg	2.12	0.560	1	A
Chlordane	ND		ug/kg	14.1	5.62	1	A

Project Name: BATTERY PARK
Lab Number: L2166146
Project Number: 20-1152
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-04
Client ID: SB-25 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/02/21 12:00
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-05
Client ID: COMP 01 (30,29,28)
Sample Location: MANHATTAN, NY

Date Collected: 12/02/21 08:40
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/07/21 13:39
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 12/06/21 15:59

TCLP/SPLP Ext. Date: 12/05/21 11:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Pesticides by EPA 1311 - Westborough Lab							
Lindane	ND		ug/l	0.100	0.022	1	A
Heptachlor	ND		ug/l	0.100	0.016	1	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	1	A
Endrin	ND		ug/l	0.200	0.021	1	A
Methoxychlor	ND		ug/l	1.00	0.034	1	A
Toxaphene	ND		ug/l	1.00	0.314	1	A
Chlordane	ND		ug/l	1.00	0.232	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	105		30-150	A
Decachlorobiphenyl	107		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	100		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-05
Client ID: COMP 01 (30,29,28)
Sample Location: MANHATTAN, NY

Date Collected: 12/02/21 08:40
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/08/21 10:06
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 12/06/21 09:44

TCLP/SPLP Ext. Date: 12/05/21 11:25
Methylation Date: 12/06/21 23:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Herbicides by EPA 1311 - Westborough Lab							
2,4-D	ND		mg/l	0.025	0.001	1	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	55		30-150	A
DCAA	47		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-06
Client ID: COMP 02 (27,26,25)
Sample Location: MANHATTAN, NY

Date Collected: 12/02/21 12:15
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/07/21 13:51
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 12/06/21 15:59

TCLP/SPLP Ext. Date: 12/05/21 11:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Pesticides by EPA 1311 - Westborough Lab							
Lindane	ND		ug/l	0.100	0.022	1	A
Heptachlor	ND		ug/l	0.100	0.016	1	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	1	A
Endrin	ND		ug/l	0.200	0.021	1	A
Methoxychlor	ND		ug/l	1.00	0.034	1	A
Toxaphene	ND		ug/l	1.00	0.314	1	A
Chlordane	ND		ug/l	1.00	0.232	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	118		30-150	A
Decachlorobiphenyl	116		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	110		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-06
Client ID: COMP 02 (27,26,25)
Sample Location: MANHATTAN, NY

Date Collected: 12/02/21 12:15
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/08/21 10:24
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 12/06/21 09:44

TCLP/SPLP Ext. Date: 12/05/21 11:25
Methylation Date: 12/06/21 23:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Herbicides by EPA 1311 - Westborough Lab							
2,4-D	ND		mg/l	0.025	0.001	1	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	46		30-150	A
DCAA	43		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 12/07/21 20:32
Analyst: EJL
TCLP/SPLP Extraction Date: 12/05/21 11:25
Methylation Date: 12/06/21 23:09

Extraction Method: EPA 8151A
Extraction Date: 12/06/21 09:44

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Herbicides by EPA 1311 - Westborough Lab for sample(s): 05-06 Batch: WG1579530-1						
2,4-D	ND		mg/l	0.025	0.001	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	50		30-150	A
DCAA	44		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/07/21 11:20
Analyst: EJL
TCLP/SPLP Extraction Date: 12/05/21 11:25

Extraction Method: EPA 3510C
Extraction Date: 12/06/21 15:59

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Pesticides by EPA 1311 - Westborough Lab for sample(s): 05-06 Batch: WG1579750-1						
Lindane	ND		ug/l	0.100	0.022	A
Heptachlor	ND		ug/l	0.100	0.016	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	A
Endrin	ND		ug/l	0.200	0.021	A
Methoxychlor	ND		ug/l	1.00	0.034	A
Toxaphene	ND		ug/l	1.00	0.314	A
Chlordane	ND		ug/l	1.00	0.232	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	120		30-150	A
Decachlorobiphenyl	133		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	126		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/13/21 13:54
Analyst: SDC

Extraction Method: EPA 3546
Extraction Date: 12/11/21 14:20
Cleanup Method: EPA 3620B
Cleanup Date: 12/12/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-04 Batch: WG1582128-1						
Delta-BHC	ND		ug/kg	1.52	0.299	A
Lindane	ND		ug/kg	0.636	0.284	A
Alpha-BHC	ND		ug/kg	0.636	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.578	A
Heptachlor	ND		ug/kg	0.763	0.342	A
Aldrin	ND		ug/kg	1.52	0.537	A
Heptachlor epoxide	ND		ug/kg	2.86	0.858	A
Endrin	ND		ug/kg	0.636	0.261	A
Endrin aldehyde	ND		ug/kg	1.91	0.668	A
Endrin ketone	ND		ug/kg	1.52	0.393	A
Dieldrin	ND		ug/kg	0.954	0.477	A
4,4'-DDE	ND		ug/kg	1.52	0.353	A
4,4'-DDD	ND		ug/kg	1.52	0.544	A
4,4'-DDT	ND		ug/kg	2.86	1.23	A
Endosulfan I	ND		ug/kg	1.52	0.360	A
Endosulfan II	ND		ug/kg	1.52	0.510	A
Endosulfan sulfate	ND		ug/kg	0.636	0.303	A
Methoxychlor	ND		ug/kg	2.86	0.890	A
Toxaphene	ND		ug/kg	28.6	8.01	A
cis-Chlordane	ND		ug/kg	1.91	0.531	A
trans-Chlordane	ND		ug/kg	1.91	0.503	A
Chlordane	ND		ug/kg	12.7	5.05	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/13/21 13:54
Analyst: SDC

Extraction Method: EPA 3546
Extraction Date: 12/11/21 14:20
Cleanup Method: EPA 3620B
Cleanup Date: 12/12/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-04 Batch: WG1582128-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	110		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166146

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Herbicides by EPA 1311 - Westborough Lab Associated sample(s): 05-06 Batch: WG1579530-2 WG1579530-3									
2,4-D	105		118		30-150	12		25	A
2,4,5-TP (Silvex)	59		68		30-150	14		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	74		76		30-150	A
DCAA	55		55		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166146
Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Pesticides by EPA 1311 - Westborough Lab Associated sample(s): 05-06 Batch: WG1579750-2 WG1579750-3									
Lindane	95		112		30-150	16		20	A
Heptachlor	99		115		30-150	15		20	A
Heptachlor epoxide	100		115		30-150	14		20	A
Endrin	120		139		30-150	15		20	A
Methoxychlor	147		**170**	Q	30-150	15		20	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	101		117		30-150	A
Decachlorobiphenyl	116		131		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		91		30-150	B
Decachlorobiphenyl	110		123		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166146

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1582128-2 WG1582128-3									
Delta-BHC	65		60		30-150	8		30	A
Lindane	76		70		30-150	8		30	A
Alpha-BHC	72		67		30-150	7		30	A
Beta-BHC	72		68		30-150	6		30	A
Heptachlor	80		74		30-150	8		30	A
Aldrin	73		67		30-150	9		30	A
Heptachlor epoxide	73		65		30-150	12		30	A
Endrin	75		69		30-150	8		30	A
Endrin aldehyde	49		47		30-150	4		30	A
Endrin ketone	81		75		30-150	8		30	A
Dieldrin	77		70		30-150	10		30	A
4,4'-DDE	69		62		30-150	11		30	A
4,4'-DDD	77		72		30-150	7		30	A
4,4'-DDT	79		74		30-150	7		30	A
Endosulfan I	69		62		30-150	11		30	A
Endosulfan II	74		70		30-150	6		30	A
Endosulfan sulfate	66		62		30-150	6		30	A
Methoxychlor	81		78		30-150	4		30	A
cis-Chlordane	61		56		30-150	9		30	A
trans-Chlordane	74		68		30-150	8		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166146

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1582128-2 WG1582128-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		64		30-150	A
Decachlorobiphenyl	97		90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		71		30-150	B
Decachlorobiphenyl	105		99		30-150	B

METALS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-01
Client ID: SB-27 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/02/21 08:30
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3110		mg/kg	8.64	2.33	2	12/14/21 19:41	12/15/21 18:07	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.32	0.328	2	12/14/21 19:41	12/15/21 18:07	EPA 3050B	1,6010D	DL
Arsenic, Total	3.16		mg/kg	0.864	0.180	2	12/14/21 19:41	12/15/21 18:07	EPA 3050B	1,6010D	DL
Barium, Total	50.9		mg/kg	0.864	0.150	2	12/14/21 19:41	12/15/21 18:07	EPA 3050B	1,6010D	DL
Beryllium, Total	0.173	J	mg/kg	0.432	0.029	2	12/14/21 19:41	12/15/21 18:07	EPA 3050B	1,6010D	DL
Cadmium, Total	0.294	J	mg/kg	0.864	0.085	2	12/14/21 19:41	12/15/21 18:07	EPA 3050B	1,6010D	DL
Calcium, Total	5410		mg/kg	8.64	3.02	2	12/14/21 19:41	12/15/21 18:07	EPA 3050B	1,6010D	DL
Chromium, Total	10.6		mg/kg	0.864	0.083	2	12/14/21 19:41	12/15/21 18:07	EPA 3050B	1,6010D	DL
Cobalt, Total	4.35		mg/kg	1.73	0.143	2	12/14/21 19:41	12/15/21 18:07	EPA 3050B	1,6010D	DL
Copper, Total	15.1		mg/kg	0.864	0.223	2	12/14/21 19:41	12/15/21 18:07	EPA 3050B	1,6010D	DL
Iron, Total	7940		mg/kg	4.32	0.780	2	12/14/21 19:41	12/15/21 18:07	EPA 3050B	1,6010D	DL
Lead, Total	45.3		mg/kg	4.32	0.231	2	12/14/21 19:41	12/15/21 18:07	EPA 3050B	1,6010D	DL
Magnesium, Total	3260		mg/kg	8.64	1.33	2	12/14/21 19:41	12/15/21 18:07	EPA 3050B	1,6010D	DL
Manganese, Total	167		mg/kg	0.864	0.137	2	12/14/21 19:41	12/15/21 18:07	EPA 3050B	1,6010D	DL
Mercury, Total	0.167		mg/kg	0.073	0.047	1	12/14/21 20:10	12/16/21 09:46	EPA 7471B	1,7471B	AC
Nickel, Total	21.6		mg/kg	2.16	0.209	2	12/14/21 19:41	12/15/21 18:07	EPA 3050B	1,6010D	DL
Potassium, Total	1050		mg/kg	216	12.4	2	12/14/21 19:41	12/15/21 18:07	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	1.73	0.223	2	12/14/21 19:41	12/15/21 18:07	EPA 3050B	1,6010D	DL
Silver, Total	0.268	J	mg/kg	0.864	0.244	2	12/14/21 19:41	12/15/21 18:07	EPA 3050B	1,6010D	DL
Sodium, Total	122	J	mg/kg	173	2.72	2	12/14/21 19:41	12/15/21 18:07	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.73	0.272	2	12/14/21 19:41	12/15/21 18:07	EPA 3050B	1,6010D	DL
Vanadium, Total	11.3		mg/kg	0.864	0.175	2	12/14/21 19:41	12/15/21 18:07	EPA 3050B	1,6010D	DL
Zinc, Total	46.5		mg/kg	4.32	0.253	2	12/14/21 19:41	12/15/21 18:07	EPA 3050B	1,6010D	DL

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-02
Client ID: SB-26 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/02/21 10:30
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%

Total Metals - Mansfield Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Aluminum, Total	3640		mg/kg	8.60	2.32	2	12/14/21 19:41	12/15/21 18:12	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.30	0.327	2	12/14/21 19:41	12/15/21 18:12	EPA 3050B	1,6010D	DL
Arsenic, Total	2.24		mg/kg	0.860	0.179	2	12/14/21 19:41	12/15/21 18:12	EPA 3050B	1,6010D	DL
Barium, Total	57.9		mg/kg	0.860	0.150	2	12/14/21 19:41	12/15/21 18:12	EPA 3050B	1,6010D	DL
Beryllium, Total	0.172	J	mg/kg	0.430	0.028	2	12/14/21 19:41	12/15/21 18:12	EPA 3050B	1,6010D	DL
Cadmium, Total	0.335	J	mg/kg	0.860	0.084	2	12/14/21 19:41	12/15/21 18:12	EPA 3050B	1,6010D	DL
Calcium, Total	7090		mg/kg	8.60	3.01	2	12/14/21 19:41	12/15/21 18:12	EPA 3050B	1,6010D	DL
Chromium, Total	11.2		mg/kg	0.860	0.083	2	12/14/21 19:41	12/15/21 18:12	EPA 3050B	1,6010D	DL
Cobalt, Total	5.68		mg/kg	1.72	0.143	2	12/14/21 19:41	12/15/21 18:12	EPA 3050B	1,6010D	DL
Copper, Total	21.1		mg/kg	0.860	0.222	2	12/14/21 19:41	12/15/21 18:12	EPA 3050B	1,6010D	DL
Iron, Total	8940		mg/kg	4.30	0.776	2	12/14/21 19:41	12/15/21 18:12	EPA 3050B	1,6010D	DL
Lead, Total	59.2		mg/kg	4.30	0.230	2	12/14/21 19:41	12/15/21 18:12	EPA 3050B	1,6010D	DL
Magnesium, Total	5060		mg/kg	8.60	1.32	2	12/14/21 19:41	12/15/21 18:12	EPA 3050B	1,6010D	DL
Manganese, Total	143		mg/kg	0.860	0.137	2	12/14/21 19:41	12/15/21 18:12	EPA 3050B	1,6010D	DL
Mercury, Total	0.212		mg/kg	0.072	0.047	1	12/14/21 20:10	12/16/21 09:49	EPA 7471B	1,7471B	AC
Nickel, Total	38.8		mg/kg	2.15	0.208	2	12/14/21 19:41	12/15/21 18:12	EPA 3050B	1,6010D	DL
Potassium, Total	1320		mg/kg	215	12.4	2	12/14/21 19:41	12/15/21 18:12	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	1.72	0.222	2	12/14/21 19:41	12/15/21 18:12	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.860	0.243	2	12/14/21 19:41	12/15/21 18:12	EPA 3050B	1,6010D	DL
Sodium, Total	143	J	mg/kg	172	2.71	2	12/14/21 19:41	12/15/21 18:12	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.72	0.271	2	12/14/21 19:41	12/15/21 18:12	EPA 3050B	1,6010D	DL
Vanadium, Total	11.3		mg/kg	0.860	0.174	2	12/14/21 19:41	12/15/21 18:12	EPA 3050B	1,6010D	DL
Zinc, Total	58.6		mg/kg	4.30	0.252	2	12/14/21 19:41	12/15/21 18:12	EPA 3050B	1,6010D	DL

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-03
Client ID: SB-26 10-12
Sample Location: MANHATTAN, NY
Date Collected: 12/02/21 11:00
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1540		mg/kg	8.09	2.18	2	12/14/21 19:41	12/15/21 18:17	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.04	0.307	2	12/14/21 19:41	12/15/21 18:17	EPA 3050B	1,6010D	DL
Arsenic, Total	1.56		mg/kg	0.809	0.168	2	12/14/21 19:41	12/15/21 18:17	EPA 3050B	1,6010D	DL
Barium, Total	13.0		mg/kg	0.809	0.141	2	12/14/21 19:41	12/15/21 18:17	EPA 3050B	1,6010D	DL
Beryllium, Total	0.073	J	mg/kg	0.404	0.027	2	12/14/21 19:41	12/15/21 18:17	EPA 3050B	1,6010D	DL
Cadmium, Total	0.113	J	mg/kg	0.809	0.079	2	12/14/21 19:41	12/15/21 18:17	EPA 3050B	1,6010D	DL
Calcium, Total	3810		mg/kg	8.09	2.83	2	12/14/21 19:41	12/15/21 18:17	EPA 3050B	1,6010D	DL
Chromium, Total	4.59		mg/kg	0.809	0.078	2	12/14/21 19:41	12/15/21 18:17	EPA 3050B	1,6010D	DL
Cobalt, Total	2.23		mg/kg	1.62	0.134	2	12/14/21 19:41	12/15/21 18:17	EPA 3050B	1,6010D	DL
Copper, Total	3.96		mg/kg	0.809	0.209	2	12/14/21 19:41	12/15/21 18:17	EPA 3050B	1,6010D	DL
Iron, Total	4300		mg/kg	4.04	0.730	2	12/14/21 19:41	12/15/21 18:17	EPA 3050B	1,6010D	DL
Lead, Total	12.3		mg/kg	4.04	0.217	2	12/14/21 19:41	12/15/21 18:17	EPA 3050B	1,6010D	DL
Magnesium, Total	1520		mg/kg	8.09	1.24	2	12/14/21 19:41	12/15/21 18:17	EPA 3050B	1,6010D	DL
Manganese, Total	69.2		mg/kg	0.809	0.129	2	12/14/21 19:41	12/15/21 18:17	EPA 3050B	1,6010D	DL
Mercury, Total	0.084		mg/kg	0.075	0.049	1	12/14/21 20:10	12/16/21 09:52	EPA 7471B	1,7471B	AC
Nickel, Total	10.4		mg/kg	2.02	0.196	2	12/14/21 19:41	12/15/21 18:17	EPA 3050B	1,6010D	DL
Potassium, Total	420		mg/kg	202	11.6	2	12/14/21 19:41	12/15/21 18:17	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	1.62	0.209	2	12/14/21 19:41	12/15/21 18:17	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.809	0.229	2	12/14/21 19:41	12/15/21 18:17	EPA 3050B	1,6010D	DL
Sodium, Total	89.1	J	mg/kg	162	2.55	2	12/14/21 19:41	12/15/21 18:17	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.62	0.255	2	12/14/21 19:41	12/15/21 18:17	EPA 3050B	1,6010D	DL
Vanadium, Total	5.60		mg/kg	0.809	0.164	2	12/14/21 19:41	12/15/21 18:17	EPA 3050B	1,6010D	DL
Zinc, Total	14.9		mg/kg	4.04	0.237	2	12/14/21 19:41	12/15/21 18:17	EPA 3050B	1,6010D	DL

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-04
Client ID: SB-25 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/02/21 12:00
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4880		mg/kg	8.43	2.28	2	12/14/21 19:41	12/15/21 18:22	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.21	0.320	2	12/14/21 19:41	12/15/21 18:22	EPA 3050B	1,6010D	DL
Arsenic, Total	3.08		mg/kg	0.843	0.175	2	12/14/21 19:41	12/15/21 18:22	EPA 3050B	1,6010D	DL
Barium, Total	84.6		mg/kg	0.843	0.147	2	12/14/21 19:41	12/15/21 18:22	EPA 3050B	1,6010D	DL
Beryllium, Total	0.270	J	mg/kg	0.421	0.028	2	12/14/21 19:41	12/15/21 18:22	EPA 3050B	1,6010D	DL
Cadmium, Total	0.506	J	mg/kg	0.843	0.083	2	12/14/21 19:41	12/15/21 18:22	EPA 3050B	1,6010D	DL
Calcium, Total	11000		mg/kg	8.43	2.95	2	12/14/21 19:41	12/15/21 18:22	EPA 3050B	1,6010D	DL
Chromium, Total	16.6		mg/kg	0.843	0.081	2	12/14/21 19:41	12/15/21 18:22	EPA 3050B	1,6010D	DL
Cobalt, Total	8.90		mg/kg	1.68	0.140	2	12/14/21 19:41	12/15/21 18:22	EPA 3050B	1,6010D	DL
Copper, Total	32.8		mg/kg	0.843	0.217	2	12/14/21 19:41	12/15/21 18:22	EPA 3050B	1,6010D	DL
Iron, Total	12300		mg/kg	4.21	0.761	2	12/14/21 19:41	12/15/21 18:22	EPA 3050B	1,6010D	DL
Lead, Total	113		mg/kg	4.21	0.226	2	12/14/21 19:41	12/15/21 18:22	EPA 3050B	1,6010D	DL
Magnesium, Total	10500		mg/kg	8.43	1.30	2	12/14/21 19:41	12/15/21 18:22	EPA 3050B	1,6010D	DL
Manganese, Total	242		mg/kg	0.843	0.134	2	12/14/21 19:41	12/15/21 18:22	EPA 3050B	1,6010D	DL
Mercury, Total	0.199		mg/kg	0.071	0.046	1	12/14/21 20:10	12/16/21 10:02	EPA 7471B	1,7471B	AC
Nickel, Total	86.4		mg/kg	2.11	0.204	2	12/14/21 19:41	12/15/21 18:22	EPA 3050B	1,6010D	DL
Potassium, Total	1830		mg/kg	211	12.1	2	12/14/21 19:41	12/15/21 18:22	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	1.68	0.217	2	12/14/21 19:41	12/15/21 18:22	EPA 3050B	1,6010D	DL
Silver, Total	0.354	J	mg/kg	0.843	0.238	2	12/14/21 19:41	12/15/21 18:22	EPA 3050B	1,6010D	DL
Sodium, Total	424		mg/kg	168	2.66	2	12/14/21 19:41	12/15/21 18:22	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.68	0.266	2	12/14/21 19:41	12/15/21 18:22	EPA 3050B	1,6010D	DL
Vanadium, Total	16.3		mg/kg	0.843	0.171	2	12/14/21 19:41	12/15/21 18:22	EPA 3050B	1,6010D	DL
Zinc, Total	96.1		mg/kg	4.21	0.247	2	12/14/21 19:41	12/15/21 18:22	EPA 3050B	1,6010D	DL

Project Name: BATTERY PARK
Lab Number: L2166146
Project Number: 20-1152
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-05
Client ID: COMP 01 (30,29,28)
Sample Location: MANHATTAN, NY
Date Collected: 12/02/21 08:40
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
TCLP/SPLP Ext. Date: 12/05/21 11:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	0.030	J	mg/l	1.00	0.019	1	12/10/21 12:23	12/10/21 22:40	EPA 3015	1,6010D	BV
Barium, TCLP	0.380	J	mg/l	0.500	0.021	1	12/10/21 12:23	12/10/21 22:40	EPA 3015	1,6010D	BV
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	12/10/21 12:23	12/10/21 22:40	EPA 3015	1,6010D	BV
Chromium, TCLP	ND		mg/l	0.200	0.021	1	12/10/21 12:23	12/10/21 22:40	EPA 3015	1,6010D	BV
Lead, TCLP	0.061	J	mg/l	0.500	0.027	1	12/10/21 12:23	12/10/21 22:40	EPA 3015	1,6010D	BV
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	12/10/21 12:37	12/11/21 12:42	EPA 7470A	1,7470A	NB
Selenium, TCLP	ND		mg/l	0.500	0.035	1	12/10/21 12:23	12/10/21 22:40	EPA 3015	1,6010D	BV
Silver, TCLP	ND		mg/l	0.100	0.028	1	12/10/21 12:23	12/10/21 22:40	EPA 3015	1,6010D	BV

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-06
Client ID: COMP 02 (27,26,25)
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil

Date Collected: 12/02/21 12:15
Date Received: 12/02/21
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 12/05/21 11:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	0.038	J	mg/l	1.00	0.019	1	12/10/21 12:23	12/10/21 23:04	EPA 3015	1,6010D	BV
Barium, TCLP	0.319	J	mg/l	0.500	0.021	1	12/10/21 12:23	12/10/21 23:04	EPA 3015	1,6010D	BV
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	12/10/21 12:23	12/10/21 23:04	EPA 3015	1,6010D	BV
Chromium, TCLP	ND		mg/l	0.200	0.021	1	12/10/21 12:23	12/10/21 23:04	EPA 3015	1,6010D	BV
Lead, TCLP	0.279	J	mg/l	0.500	0.027	1	12/10/21 12:23	12/10/21 23:04	EPA 3015	1,6010D	BV
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	12/10/21 12:37	12/11/21 13:06	EPA 7470A	1,7470A	NB
Selenium, TCLP	ND		mg/l	0.500	0.035	1	12/10/21 12:23	12/10/21 23:04	EPA 3015	1,6010D	BV
Silver, TCLP	ND		mg/l	0.100	0.028	1	12/10/21 12:23	12/10/21 23:04	EPA 3015	1,6010D	BV

Project Name: BATTERY PARK **Lab Number:** L2166146

Project Number: 20-1152 **Report Date:** 12/16/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 05-06 Batch: WG1581285-1										
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	12/10/21 12:23	12/10/21 22:31	1,6010D	BV
Barium, TCLP	ND		mg/l	0.500	0.021	1	12/10/21 12:23	12/10/21 22:31	1,6010D	BV
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	12/10/21 12:23	12/10/21 22:31	1,6010D	BV
Chromium, TCLP	ND		mg/l	0.200	0.021	1	12/10/21 12:23	12/10/21 22:31	1,6010D	BV
Lead, TCLP	ND		mg/l	0.500	0.027	1	12/10/21 12:23	12/10/21 22:31	1,6010D	BV
Selenium, TCLP	ND		mg/l	0.500	0.035	1	12/10/21 12:23	12/10/21 22:31	1,6010D	BV
Silver, TCLP	ND		mg/l	0.100	0.028	1	12/10/21 12:23	12/10/21 22:31	1,6010D	BV

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 12/04/21 07:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 05-06 Batch: WG1581286-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	12/10/21 12:37	12/11/21 12:36	1,7470A	NB

Prep Information

Digestion Method: EPA 7470A

TCLP/SPLP Extraction Date: 12/04/21 07:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1582702-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	12/14/21 19:41	12/15/21 17:07	1,6010D	EW
Antimony, Total	ND		mg/kg	2.00	0.152	1	12/14/21 19:41	12/15/21 17:07	1,6010D	EW
Arsenic, Total	ND		mg/kg	0.400	0.083	1	12/14/21 19:41	12/15/21 17:07	1,6010D	EW
Barium, Total	ND		mg/kg	0.400	0.070	1	12/14/21 19:41	12/15/21 17:07	1,6010D	EW
Beryllium, Total	ND		mg/kg	0.200	0.013	1	12/14/21 19:41	12/15/21 17:07	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.400	0.039	1	12/14/21 19:41	12/15/21 17:07	1,6010D	EW
Calcium, Total	ND		mg/kg	4.00	1.40	1	12/14/21 19:41	12/15/21 17:07	1,6010D	EW
Chromium, Total	ND		mg/kg	0.400	0.038	1	12/14/21 19:41	12/15/21 17:07	1,6010D	EW
Cobalt, Total	ND		mg/kg	0.800	0.066	1	12/14/21 19:41	12/15/21 17:07	1,6010D	EW

Project Name: BATTERY PARK **Lab Number:** L2166146

Project Number: 20-1152 **Report Date:** 12/16/21

Method Blank Analysis
Batch Quality Control

Copper, Total	ND		mg/kg	0.400	0.103	1	12/14/21 19:41	12/15/21 17:07	1,6010D	EW
Iron, Total	ND		mg/kg	2.00	0.361	1	12/14/21 19:41	12/15/21 17:07	1,6010D	EW
Lead, Total	ND		mg/kg	2.00	0.107	1	12/14/21 19:41	12/15/21 17:07	1,6010D	EW
Magnesium, Total	ND		mg/kg	4.00	0.616	1	12/14/21 19:41	12/15/21 17:07	1,6010D	EW
Manganese, Total	ND		mg/kg	0.400	0.064	1	12/14/21 19:41	12/15/21 17:07	1,6010D	EW
Nickel, Total	ND		mg/kg	1.00	0.097	1	12/14/21 19:41	12/15/21 17:07	1,6010D	EW
Potassium, Total	5.91	J	mg/kg	100	5.76	1	12/14/21 19:41	12/15/21 17:07	1,6010D	EW
Selenium, Total	ND		mg/kg	0.800	0.103	1	12/14/21 19:41	12/15/21 17:07	1,6010D	EW
Silver, Total	ND		mg/kg	0.400	0.113	1	12/14/21 19:41	12/15/21 17:07	1,6010D	EW
Sodium, Total	7.00	J	mg/kg	80.0	1.26	1	12/14/21 19:41	12/15/21 17:07	1,6010D	EW
Thallium, Total	ND		mg/kg	0.800	0.126	1	12/14/21 19:41	12/15/21 17:07	1,6010D	EW
Vanadium, Total	ND		mg/kg	0.400	0.081	1	12/14/21 19:41	12/15/21 17:07	1,6010D	EW
Zinc, Total	ND		mg/kg	2.00	0.117	1	12/14/21 19:41	12/15/21 17:07	1,6010D	EW

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): 01-04 Batch: WG1582703-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	12/14/21 20:10	12/16/21 09:26	1,7471B	AC

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166146

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05-06 Batch: WG1581285-2								
Arsenic, TCLP	113		-		75-125	-		20
Barium, TCLP	99		-		75-125	-		20
Cadmium, TCLP	103		-		75-125	-		20
Chromium, TCLP	96		-		75-125	-		20
Lead, TCLP	96		-		75-125	-		20
Selenium, TCLP	102		-		75-125	-		20
Silver, TCLP	98		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05-06 Batch: WG1581286-2								
Mercury, TCLP	98		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166146

Report Date: 12/16/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1582702-2 SRM Lot Number: D113-540					
Aluminum, Total	67	-	51-149	-	
Antimony, Total	149	-	20-250	-	
Arsenic, Total	109	-	70-130	-	
Barium, Total	103	-	75-125	-	
Beryllium, Total	108	-	75-125	-	
Cadmium, Total	107	-	75-125	-	
Calcium, Total	106	-	73-128	-	
Chromium, Total	102	-	70-130	-	
Cobalt, Total	107	-	75-125	-	
Copper, Total	106	-	75-125	-	
Iron, Total	88	-	36-164	-	
Lead, Total	106	-	72-128	-	
Magnesium, Total	86	-	63-138	-	
Manganese, Total	102	-	77-123	-	
Nickel, Total	106	-	70-130	-	
Potassium, Total	84	-	59-141	-	
Selenium, Total	103	-	66-134	-	
Silver, Total	110	-	70-131	-	
Sodium, Total	101	-	35-164	-	
Thallium, Total	104	-	70-130	-	
Vanadium, Total	102	-	74-126	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166146

Report Date: 12/16/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1582702-2 SRM Lot Number: D113-540					
Zinc, Total	104	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1582703-2 SRM Lot Number: D113-540					
Mercury, Total	112	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166146
Report Date: 12/16/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05-06 (30,29,28)	QC Batch ID: WG1581285-3		QC Sample: L2166146-05			Client ID: COMP 01						
Arsenic, TCLP	0.030J	1.2	1.33	111		-	-		75-125	-		20
Barium, TCLP	0.380J	20	20.3	102		-	-		75-125	-		20
Cadmium, TCLP	ND	0.53	0.544	103		-	-		75-125	-		20
Chromium, TCLP	ND	2	1.98	99		-	-		75-125	-		20
Lead, TCLP	0.061J	5.3	5.13	97		-	-		75-125	-		20
Selenium, TCLP	ND	1.2	1.29	108		-	-		75-125	-		20
Silver, TCLP	ND	0.5	0.501	100		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05-06 (30,29,28)	QC Batch ID: WG1581286-3		QC Sample: L2166146-05			Client ID: COMP 01						
Mercury, TCLP	ND	0.025	0.0243	97		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166146
Report Date: 12/16/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1582702-3 QC Sample: L2166051-01 Client ID: MS Sample										
Aluminum, Total	1090	155	1640	**354**	Q	-	-	75-125	-	20
Antimony, Total	ND	38.8	28.5	**73**	Q	-	-	75-125	-	20
Arsenic, Total	0.995	9.31	9.37	90		-	-	75-125	-	20
Barium, Total	9.94	155	145	87		-	-	75-125	-	20
Beryllium, Total	0.143J	3.88	3.55	92		-	-	75-125	-	20
Cadmium, Total	0.072J	4.11	3.54	86		-	-	75-125	-	20
Calcium, Total	1770	776	2430	85		-	-	75-125	-	20
Chromium, Total	1.17	15.5	13.7	81		-	-	75-125	-	20
Cobalt, Total	0.486J	38.8	30.8	79		-	-	75-125	-	20
Copper, Total	20.4	19.4	147	**653**	Q	-	-	75-125	-	20
Iron, Total	2510	77.6	2620	**142**	Q	-	-	75-125	-	20
Lead, Total	2.43	41.1	35.6	81		-	-	75-125	-	20
Magnesium, Total	720	776	1450	94		-	-	75-125	-	20
Manganese, Total	68.8	38.8	94.2	**65**	Q	-	-	75-125	-	20
Nickel, Total	1.47	38.8	32.2	79		-	-	75-125	-	20
Potassium, Total	190	776	887	90		-	-	75-125	-	20
Selenium, Total	ND	9.31	8.01	86		-	-	75-125	-	20
Silver, Total	ND	23.3	21.6	93		-	-	75-125	-	20
Sodium, Total	657	776	1360	91		-	-	75-125	-	20
Thallium, Total	ND	9.31	6.34	**68**	Q	-	-	75-125	-	20
Vanadium, Total	1.26	38.8	33.8	84		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166146
Report Date: 12/16/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1582702-3 QC Sample: L2166051-01 Client ID: MS Sample									
Zinc, Total	12.9	38.8	58.1	116	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1582703-3 QC Sample: L2166145-02 Client ID: MS Sample									
Mercury, Total	ND	0.149	0.179	120	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166146
Report Date: 12/16/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05-06 (30,29,28) QC Batch ID: WG1581285-4 QC Sample: L2166146-05 Client ID: COMP 01						
Arsenic, TCLP	0.030J	0.038J	mg/l	NC		20
Barium, TCLP	0.380J	0.379J	mg/l	NC		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	0.061J	0.055J	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05-06 (30,29,28) QC Batch ID: WG1581286-4 QC Sample: L2166146-05 Client ID: COMP 01						
Mercury, TCLP	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1582702-4 QC Sample: L2166051-01 Client ID: DUP Sample						
Chromium, Total	1.17	1.19	mg/kg	2		20
Copper, Total	20.4	39.1	mg/kg	**63**	Q	20
Manganese, Total	68.8	61.3	mg/kg	12		20
Nickel, Total	1.47	1.39	mg/kg	6		20
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1582703-4 QC Sample: L2166145-02 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2166146
Report Date: 12/16/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1582702-6 QC Sample: L2166051-01 Client ID: DUP Sample						
Copper, Total	20.4	23.7	mg/kg	16		20
Manganese, Total	68.8	81.2	mg/kg	18		20

INORGANICS
&
MISCELLANEOUS

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-05
Client ID: COMP 01 (30,29,28)
Sample Location: MANHATTAN, NY

Date Collected: 12/02/21 08:40
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Sand
Particle Size:	Fine
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	12/14/21 10:05	1,1030	IS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-06
Client ID: COMP 02 (27,26,25)
Sample Location: MANHATTAN, NY
Date Collected: 12/02/21 12:15
Date Received: 12/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Sand
Particle Size:	Fine
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	12/14/21 10:05	1,1030	IS

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-01
Client ID: SB-27 1-3
Sample Location: MANHATTAN, NY

Date Collected: 12/02/21 08:30
Date Received: 12/02/21
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	90.9		%	0.100	NA	1	-	12/03/21 11:23	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	12/08/21 05:50	12/08/21 11:03	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.880	0.176	1	12/08/21 16:24	12/15/21 08:30	1,7196A	JT

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-02
Client ID: SB-26 1-3
Sample Location: MANHATTAN, NY

Date Collected: 12/02/21 10:30
Date Received: 12/02/21
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	90.8		%	0.100	NA	1	-	12/03/21 11:23	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	12/08/21 05:50	12/08/21 11:04	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.881	0.176	1	12/08/21 16:24	12/15/21 08:30	1,7196A	JT

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-03
Client ID: SB-26 10-12
Sample Location: MANHATTAN, NY

Date Collected: 12/02/21 11:00
Date Received: 12/02/21
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	94.8		%	0.100	NA	1	-	12/03/21 11:23	121,2540G	RI
Cyanide, Total	ND		mg/kg	0.98	0.21	1	12/08/21 05:50	12/08/21 11:05	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.844	0.169	1	12/08/21 16:24	12/15/21 08:30	1,7196A	JT

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-04
Client ID: SB-25 1-3
Sample Location: MANHATTAN, NY

Date Collected: 12/02/21 12:00
Date Received: 12/02/21
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	90.7		%	0.100	NA	1	-	12/03/21 11:23	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.21	1	12/08/21 05:50	12/08/21 11:06	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.882	0.176	1	12/08/21 16:24	12/15/21 08:30	1,7196A	JT

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-05
Client ID: COMP 01 (30,29,28)
Sample Location: MANHATTAN, NY

Date Collected: 12/02/21 08:40
Date Received: 12/02/21
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										
pH (H)	8.4		SU	-	NA	1	-	12/14/21 08:01	1,9045D	KP
Cyanide, Reactive	ND		mg/kg	10	10.	1	12/16/21 10:40	12/16/21 13:05	125,7.3	MJ
Sulfide, Reactive	ND		mg/kg	10	10.	1	12/16/21 10:45	12/16/21 12:31	125,7.3	MJ

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166146
Report Date: 12/16/21

SAMPLE RESULTS

Lab ID: L2166146-06
Client ID: COMP 02 (27,26,25)
Sample Location: MANHATTAN, NY

Date Collected: 12/02/21 12:15
Date Received: 12/02/21
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										
pH (H)	8.3		SU	-	NA	1	-	12/14/21 08:01	1,9045D	KP
Cyanide, Reactive	ND		mg/kg	10	10.	1	12/16/21 10:40	12/16/21 13:05	125,7.3	MJ
Sulfide, Reactive	ND		mg/kg	10	10.	1	12/16/21 10:45	12/16/21 12:31	125,7.3	MJ

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166146
Report Date: 12/16/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1580380-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	12/08/21 16:24	12/15/21 08:30	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1580429-1										
Cyanide, Total	ND		mg/kg	0.96	0.20	1	12/08/21 05:50	12/08/21 10:44	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 05-06 Batch: WG1583664-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	12/16/21 10:45	12/16/21 12:30	125,7.3	MJ
General Chemistry - Westborough Lab for sample(s): 05-06 Batch: WG1583668-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	12/16/21 10:40	12/16/21 13:04	125,7.3	MJ

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166146

Report Date: 12/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1580380-2								
Chromium, Hexavalent	80		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1580429-2 WG1580429-3								
Cyanide, Total	**76**	Q	96		80-120	19		35
General Chemistry - Westborough Lab Associated sample(s): 05-06 Batch: WG1582949-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 05-06 Batch: WG1583664-2								
Sulfide, Reactive	98		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 05-06 Batch: WG1583668-2								
Cyanide, Reactive	76		-		30-125	-		40

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166146
Report Date: 12/16/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1580380-4 QC Sample: L2166146-03 Client ID: SB-26 10-12												
Chromium, Hexavalent	ND	920	911	99		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1580429-4 WG1580429-5 QC Sample: L2166146-04 Client ID: SB-25 1-3												
Cyanide, Total	ND	10	13	**130**	Q	75	**3600**	Q	75-125	**141**	Q	35

Lab Duplicate Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166146
Report Date: 12/16/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1578777-1 QC Sample: L2165594-19 Client ID: DUP Sample						
Solids, Total	82.5	81.9	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1580380-6 QC Sample: L2166146-03 Client ID: SB-26 10-12						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 05-06 QC Batch ID: WG1582949-2 QC Sample: L2167854-01 Client ID: DUP Sample						
pH	6.9	7.0	SU	1		5
General Chemistry - Westborough Lab Associated sample(s): 05-06 QC Batch ID: WG1583664-3 QC Sample: L2167904-01 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 05-06 QC Batch ID: WG1583668-3 QC Sample: L2167904-01 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166146
Report Date: 12/16/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2166146-01A	Vial MeOH preserved	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2166146-01B	Vial water preserved	A	NA		4.1	Y	Absent	03-DEC-21 10:44	NYTCL-8260HLW(14)
L2166146-01C	Vial water preserved	A	NA		4.1	Y	Absent	03-DEC-21 10:44	NYTCL-8260HLW(14)
L2166146-01D	Plastic 2oz unpreserved for TS	A	NA		4.1	Y	Absent		TS(7)
L2166146-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),CU-TI(180),SE-TI(180),V-TI(180),CO-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2166146-01F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166146-01G	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166146-01H	Glass 250ml/8oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166146-02A	Vial MeOH preserved	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2166146-02B	Vial water preserved	A	NA		4.1	Y	Absent	03-DEC-21 10:44	NYTCL-8260HLW(14)
L2166146-02C	Vial water preserved	A	NA		4.1	Y	Absent	03-DEC-21 10:44	NYTCL-8260HLW(14)
L2166146-02D	Plastic 2oz unpreserved for TS	A	NA		4.1	Y	Absent		TS(7)
L2166146-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),ZN-TI(180),PB-TI(180),SE-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),NA-TI(180),CD-TI(180)
L2166146-02F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166146-02G	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166146-02H	Glass 250ml/8oz unpreserved	A	NA		4.1	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166146
Report Date: 12/16/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2166146-03A	Vial MeOH preserved	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2166146-03B	Vial water preserved	A	NA		4.1	Y	Absent	03-DEC-21 10:44	NYTCL-8260HLW(14)
L2166146-03C	Vial water preserved	A	NA		4.1	Y	Absent	03-DEC-21 10:44	NYTCL-8260HLW(14)
L2166146-03D	Plastic 2oz unpreserved for TS	A	NA		4.1	Y	Absent		TS(7)
L2166146-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),SE-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2166146-03F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166146-03G	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166146-03H	Glass 250ml/8oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166146-04A	Vial MeOH preserved	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2166146-04B	Vial water preserved	A	NA		4.1	Y	Absent	03-DEC-21 10:44	NYTCL-8260HLW(14)
L2166146-04C	Vial water preserved	A	NA		4.1	Y	Absent	03-DEC-21 10:44	NYTCL-8260HLW(14)
L2166146-04D	Plastic 2oz unpreserved for TS	A	NA		4.1	Y	Absent		TS(7)
L2166146-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),NA-TI(180),K-TI(180),CA-TI(180),CD-TI(180)
L2166146-04F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166146-04G	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166146-04H	Glass 250ml/8oz unpreserved	A	NA		4.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166146-05A	Vial Large Septa unpreserved (4oz)	A	NA		4.1	Y	Absent		TCLP-EXT-ZHE(14)
L2166146-05B	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		IGNIT-1030(14),REACTS(14),PH-9045(1),REACTCN(14)
L2166146-05W	Amber 1000ml unpreserved Extracts	A	NA		4.1	Y	Absent		TCLP-8270(14),HERB-TCLP*(14),PEST-TCLP*(14)
L2166146-05X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.1	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)

*Values in parentheses indicate holding time in days

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166146
Report Date: 12/16/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2166146-05X9	Tumble Vessel	A	NA		4.1	Y	Absent		-
L2166146-05Y	Vial unpreserved Extracts	A	NA		4.1	Y	Absent		TCLP-VOA(14)
L2166146-05Z	Vial unpreserved Extracts	A	NA		4.1	Y	Absent		TCLP-VOA(14)
L2166146-06A	Vial Large Septa unpreserved (4oz)	A	NA		4.1	Y	Absent		TCLP-EXT-ZHE(14)
L2166146-06B	Glass 250ml/8oz unpreserved	A	NA		4.1	Y	Absent		IGNIT-1030(14),REACTS(14),PH-9045(1),REACTCN(14)
L2166146-06W	Amber 1000ml unpreserved Extracts	A	NA		4.1	Y	Absent		TCLP-8270(14),PEST-TCLP*(14),HERB-TCLP*(14)
L2166146-06X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.1	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2166146-06X9	Tumble Vessel	A	NA		4.1	Y	Absent		-
L2166146-06Y	Vial unpreserved Extracts	A	NA		4.1	Y	Absent		TCLP-VOA(14)
L2166146-06Z	Vial unpreserved Extracts	A	NA		4.1	Y	Absent		TCLP-VOA(14)

*Values in parentheses indicate holding time in days

Project Name:	BATTERY PARK	**Lab Number:**	L2166146
Project Number:	20-1152	**Report Date:**	12/16/21

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:	BATTERY PARK	**Lab Number:**	L2166146
Project Number:	20-1152	**Report Date:**	12/16/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. 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.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	BATTERY PARK	**Lab Number:**	L2166146
Project Number:	20-1152	**Report Date:**	12/16/21

Data Qualifiers

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:	BATTERY PARK	**Lab Number:**	L2166146
Project Number:	20-1152	**Report Date:**	12/16/21

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.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

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

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8 Walkup Dr.
TEL: 508-898-9220
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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 of

Date Rec'd in Lab: 12/3/21

ALPHA Job #: L2166146

Client Information
Client: MATRIX
Address: 333 W. 39th ST.
NEW YORK, NY
Phone:
Fax:
Email: bcrespi@mnwe.com

Project Information
Project Name: BATTERY PARK
Project Location: MANHATTAN, NY
Project # 20-1152
(Use Project name as Project #) ☐
Project Manager: BRIAN CRESPI
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

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	TCL VOC	TCL SVOC	TCL PCB	TCL PESTICIDES	TAL METALS, CN, Cr6+	FULL TCLP	RCRA CHARACTERISTICS	Total Bottle	Sample Specific Comments
66146-01	SB-27 1-3	12/2/21	8:30	S	PY	X	X	X	X	X				
-02	SB-26 1-3	12/2/21	10:30	S	PY	X	X	X	X	X				
-03	SB-26 10-12	12/2/21	11:00	S	PY	X	X	X	X	X				
-04	SB-25 1-3	12/2/21	12:00	S	PY	X	X	X	X	X				
-05	COMP 01 (30,29,28)	12/2/21	8:40	S	PY						X	X		
-06	COMP 02 (27,26,25)	12/2/21	12:15	S	PY						X	X		

Container Type
Preservative

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
Addison Climo	12/2/21 13:30	[illegible] (AAL)	12-2-21 13:30
[illegible] (AAL)	12-2-21 1950	Paul Mazzella	12/3/21 0210
Paul Mazzella	12/3/21 0210		

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)

ANALYTICAL REPORT

Lab Number:	L2166661
Client:	Matrix New World Engineering, Inc. 333 West 39th Street, Second Floor New York City, NY 10018
ATTN:	Brian Crespi
Phone:	(212) 324-4251
Project Name:	BATTERY PARK
Project Number:	20-1152
Report Date:	12/17/21

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

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

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166661
Report Date: 12/17/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2166661-01	SB-24 1-4	SOIL	MANHATTAN, NY	12/03/21 10:00	12/03/21
L2166661-02	SB-24 10-12	SOIL	MANHATTAN, NY	12/03/21 10:30	12/03/21
L2166661-03	SB-23 1-3	SOIL	MANHATTAN, NY	12/03/21 12:00	12/03/21
L2166661-04	COMP 03 (24,23)	SOIL	MANHATTAN, NY	12/03/21 12:30	12/03/21

Project Name:	BATTERY PARK	**Lab Number:**	L2166661
Project Number:	20-1152	**Report Date:**	12/17/21

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: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

Case Narrative (continued)

Report Submission

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

Semivolatile Organics

The WG1582351-2/-3 LCS/LCSD recoveries, associated with L2166661-01 through -03, are below the acceptance criteria for benzoic acid (1%/1%); however, it has been identified as a "difficult" analyte. The results of the associated sample is reported.

Total Metals

L2166661-01-03: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

Sulfide, Reactive

WG1584575: A Laboratory Duplicate was prepared with the sample batch, however, the native sample was not available for reporting; therefore, the result could not be reported.

Cyanide, Reactive

WG1584577: A Laboratory Duplicate was prepared with the sample batch, however, the native sample was not available for reporting; therefore, the result could not be reported.

Hexavalent Chromium

The WG1580379-5 Soluble MS recovery for , performed on L2166661-02, is below the acceptance criteria (54%). This has been attributed to matrix interference. A post-spike was performed with an acceptable recovery 94%.

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: Sebastian Corbin

Title: Technical Director/Representative Date: 12/17/21

ORGANICS

VOLATILES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-01
Client ID: SB-24 1-4
Sample Location: MANHATTAN, NY
Date Collected: 12/03/21 10:00
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/14/21 01:05
Analyst: NLK
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.5	3.4	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.22	1
Chloroform	ND		ug/kg	2.3	0.21	1
Carbon tetrachloride	ND		ug/kg	1.5	0.35	1
1,2-Dichloropropane	ND		ug/kg	1.5	0.19	1
Dibromochloromethane	ND		ug/kg	1.5	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.40	1
Tetrachloroethene	ND		ug/kg	0.75	0.30	1
Chlorobenzene	ND		ug/kg	0.75	0.19	1
Trichlorofluoromethane	ND		ug/kg	6.0	1.0	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.39	1
1,1,1-Trichloroethane	ND		ug/kg	0.75	0.25	1
Bromodichloromethane	ND		ug/kg	0.75	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.41	1
cis-1,3-Dichloropropene	ND		ug/kg	0.75	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	0.75	0.24	1
1,1-Dichloropropene	ND		ug/kg	0.75	0.24	1
Bromoform	ND		ug/kg	6.0	0.37	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.75	0.25	1
Benzene	ND		ug/kg	0.75	0.25	1
Toluene	ND		ug/kg	1.5	0.82	1
Ethylbenzene	ND		ug/kg	1.5	0.21	1
Chloromethane	ND		ug/kg	6.0	1.4	1
Bromomethane	ND		ug/kg	3.0	0.88	1
Vinyl chloride	ND		ug/kg	1.5	0.50	1
Chloroethane	ND		ug/kg	3.0	0.68	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.21	1

Project Name: BATTERY PARK **Lab Number:** L2166661

Project Number: 20-1152 **Report Date:** 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-01 Date Collected: 12/03/21 10:00

Client ID: SB-24 1-4 Date Received: 12/03/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.75	0.21	1
1,2-Dichlorobenzene	ND		ug/kg	3.0	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	3.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	3.0	0.26	1
Methyl tert butyl ether	ND		ug/kg	3.0	0.30	1
p/m-Xylene	ND		ug/kg	3.0	0.84	1
o-Xylene	ND		ug/kg	1.5	0.44	1
Xylenes, Total	ND		ug/kg	1.5	0.44	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.26	1
1,2-Dichloroethene, Total	ND		ug/kg	1.5	0.21	1
Dibromomethane	ND		ug/kg	3.0	0.36	1
Styrene	ND		ug/kg	1.5	0.30	1
Dichlorodifluoromethane	ND		ug/kg	15	1.4	1
Acetone	ND		ug/kg	15	7.2	1
Carbon disulfide	ND		ug/kg	15	6.9	1
2-Butanone	ND		ug/kg	15	3.3	1
Vinyl acetate	ND		ug/kg	15	3.2	1
4-Methyl-2-pentanone	ND		ug/kg	15	1.9	1
1,2,3-Trichloropropane	ND		ug/kg	3.0	0.19	1
2-Hexanone	ND		ug/kg	15	1.8	1
Bromochloromethane	ND		ug/kg	3.0	0.31	1
2,2-Dichloropropane	ND		ug/kg	3.0	0.30	1
1,2-Dibromoethane	ND		ug/kg	1.5	0.42	1
1,3-Dichloropropane	ND		ug/kg	3.0	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.75	0.20	1
Bromobenzene	ND		ug/kg	3.0	0.22	1
n-Butylbenzene	ND		ug/kg	1.5	0.25	1
sec-Butylbenzene	ND		ug/kg	1.5	0.22	1
tert-Butylbenzene	ND		ug/kg	3.0	0.18	1
o-Chlorotoluene	ND		ug/kg	3.0	0.29	1
p-Chlorotoluene	ND		ug/kg	3.0	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.5	1.5	1
Hexachlorobutadiene	ND		ug/kg	6.0	0.25	1
Isopropylbenzene	ND		ug/kg	1.5	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.16	1
Naphthalene	ND		ug/kg	6.0	0.98	1
Acrylonitrile	ND		ug/kg	6.0	1.7	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-01
Client ID: SB-24 1-4
Sample Location: MANHATTAN, NY
Date Collected: 12/03/21 10:00
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.5	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.0	0.48	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.0	0.41	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.0	0.29	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.0	0.50	1
1,4-Dioxane	ND		ug/kg	120	53.	1
p-Diethylbenzene	ND		ug/kg	3.0	0.27	1
p-Ethyltoluene	ND		ug/kg	3.0	0.58	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.0	0.29	1
Ethyl ether	ND		ug/kg	3.0	0.51	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.5	2.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	99		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-02
Client ID: SB-24 10-12
Sample Location: MANHATTAN, NY
Date Collected: 12/03/21 10:30
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/14/21 01:31
Analyst: NLK
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.0	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.60	0.24	1
Chlorobenzene	ND		ug/kg	0.60	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.84	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.60	0.20	1
Bromodichloromethane	ND		ug/kg	0.60	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.60	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.60	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.60	0.19	1
Bromoform	ND		ug/kg	4.8	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.60	0.20	1
Benzene	ND		ug/kg	0.60	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.70	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: BATTERY PARK **Lab Number:** L2166661

Project Number: 20-1152 **Report Date:** 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-02 Date Collected: 12/03/21 10:30

Client ID: SB-24 10-12 Date Received: 12/03/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.60	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.68	1
o-Xylene	ND		ug/kg	1.2	0.35	1
Xylenes, Total	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	12		ug/kg	12	5.8	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.60	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	1.4	J	ug/kg	4.8	0.78	1
Acrylonitrile	ND		ug/kg	4.8	1.4	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-02
Client ID: SB-24 10-12
Sample Location: MANHATTAN, NY
Date Collected: 12/03/21 10:30
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
1,4-Dioxane	ND		ug/kg	97	42.	1
p-Diethylbenzene	0.36	J	ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.46	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	86		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-03
Client ID: SB-23 1-3
Sample Location: MANHATTAN, NY

Date Collected: 12/03/21 12:00
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/14/21 01:57
Analyst: NLK
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.2	3.3	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.21	1
Chloroform	ND		ug/kg	2.2	0.20	1
Carbon tetrachloride	ND		ug/kg	1.4	0.33	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.18	1
Dibromochloromethane	ND		ug/kg	1.4	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.38	1
Tetrachloroethene	ND		ug/kg	0.72	0.28	1
Chlorobenzene	ND		ug/kg	0.72	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.8	1.0	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.37	1
1,1,1-Trichloroethane	ND		ug/kg	0.72	0.24	1
Bromodichloromethane	ND		ug/kg	0.72	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.39	1
cis-1,3-Dichloropropene	ND		ug/kg	0.72	0.23	1
1,3-Dichloropropene, Total	ND		ug/kg	0.72	0.23	1
1,1-Dichloropropene	ND		ug/kg	0.72	0.23	1
Bromoform	ND		ug/kg	5.8	0.35	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.72	0.24	1
Benzene	ND		ug/kg	0.72	0.24	1
Toluene	ND		ug/kg	1.4	0.78	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.8	1.3	1
Bromomethane	ND		ug/kg	2.9	0.84	1
Vinyl chloride	ND		ug/kg	1.4	0.48	1
Chloroethane	ND		ug/kg	2.9	0.65	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	0.20	1

Project Name: BATTERY PARK **Lab Number:** L2166661

Project Number: 20-1152 **Report Date:** 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-03 Date Collected: 12/03/21 12:00

Client ID: SB-23 1-3 Date Received: 12/03/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.72	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	2.9	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	2.9	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	2.9	0.25	1
Methyl tert butyl ether	ND		ug/kg	2.9	0.29	1
p/m-Xylene	ND		ug/kg	2.9	0.81	1
o-Xylene	ND		ug/kg	1.4	0.42	1
Xylenes, Total	ND		ug/kg	1.4	0.42	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.25	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.20	1
Dibromomethane	ND		ug/kg	2.9	0.34	1
Styrene	ND		ug/kg	1.4	0.28	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	ND		ug/kg	14	6.9	1
Carbon disulfide	ND		ug/kg	14	6.6	1
2-Butanone	ND		ug/kg	14	3.2	1
Vinyl acetate	ND		ug/kg	14	3.1	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
1,2,3-Trichloropropane	ND		ug/kg	2.9	0.18	1
2-Hexanone	ND		ug/kg	14	1.7	1
Bromochloromethane	ND		ug/kg	2.9	0.30	1
2,2-Dichloropropane	ND		ug/kg	2.9	0.29	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.40	1
1,3-Dichloropropane	ND		ug/kg	2.9	0.24	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.72	0.19	1
Bromobenzene	ND		ug/kg	2.9	0.21	1
n-Butylbenzene	ND		ug/kg	1.4	0.24	1
sec-Butylbenzene	ND		ug/kg	1.4	0.21	1
tert-Butylbenzene	ND		ug/kg	2.9	0.17	1
o-Chlorotoluene	ND		ug/kg	2.9	0.28	1
p-Chlorotoluene	ND		ug/kg	2.9	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.3	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.8	0.24	1
Isopropylbenzene	ND		ug/kg	1.4	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.16	1
Naphthalene	ND		ug/kg	5.8	0.94	1
Acrylonitrile	ND		ug/kg	5.8	1.6	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-03
Client ID: SB-23 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/03/21 12:00
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.25	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.9	0.46	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.9	0.39	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.9	0.28	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.9	0.48	1
1,4-Dioxane	ND		ug/kg	120	50.	1
p-Diethylbenzene	ND		ug/kg	2.9	0.25	1
p-Ethyltoluene	ND		ug/kg	2.9	0.55	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.9	0.28	1
Ethyl ether	ND		ug/kg	2.9	0.49	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.2	2.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	100		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-04
Client ID: COMP 03 (24,23)
Sample Location: MANHATTAN, NY

Date Collected: 12/03/21 12:30
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/09/21 06:13
Analyst: MM

TCLP/SPLP Ext. Date: 12/07/21 12:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	90		70-130
dibromofluoromethane	111		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/09/21 04:37
Analyst: MM
TCLP/SPLP Extraction Date: 12/07/21 12:10
Extraction Date: 12/07/21 12:10

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 04 Batch: WG1581060-5					
Chloroform	ND		ug/l	7.5	2.2
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	92		70-130
dibromofluoromethane	108		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/13/21 22:06
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1583023-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/13/21 22:06
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1583023-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/13/21 22:06
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1583023-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 04 Batch: WG1581060-3 WG1581060-4								
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	130		130		63-132	0		20
Tetrachloroethene	120		120		70-130	0		20
Chlorobenzene	98		98		75-130	0		25
1,2-Dichloroethane	100		100		70-130	0		20
Benzene	98		97		70-130	1		25
Vinyl chloride	86		88		55-140	2		20
1,1-Dichloroethene	100		100		61-145	0		25
Trichloroethene	100		110		70-130	10		25
1,4-Dichlorobenzene	100		100		70-130	0		20
2-Butanone	79		80		63-138	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	110		110		70-130
Toluene-d8	98		96		70-130
4-Bromofluorobenzene	89		91		70-130
dibromofluoromethane	105		108		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166661

Report Date: 12/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1583023-3 WG1583023-4								
Methylene chloride	90		88		70-130	2		30
1,1-Dichloroethane	97		95		70-130	2		30
Chloroform	93		90		70-130	3		30
Carbon tetrachloride	90		88		70-130	2		30
1,2-Dichloropropane	100		99		70-130	1		30
Dibromochloromethane	97		96		70-130	1		30
1,1,2-Trichloroethane	96		97		70-130	1		30
Tetrachloroethene	99		96		70-130	3		30
Chlorobenzene	97		94		70-130	3		30
Trichlorofluoromethane	93		90		70-139	3		30
1,2-Dichloroethane	91		90		70-130	1		30
1,1,1-Trichloroethane	94		91		70-130	3		30
Bromodichloromethane	93		92		70-130	1		30
trans-1,3-Dichloropropene	98		97		70-130	1		30
cis-1,3-Dichloropropene	101		99		70-130	2		30
1,1-Dichloropropene	100		96		70-130	4		30
Bromoform	90		91		70-130	1		30
1,1,2,2-Tetrachloroethane	95		96		70-130	1		30
Benzene	96		94		70-130	2		30
Toluene	97		94		70-130	3		30
Ethylbenzene	96		94		70-130	2		30
Chloromethane	98		94		52-130	4		30
Bromomethane	103		101		57-147	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166661

Report Date: 12/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1583023-3 WG1583023-4								
Vinyl chloride	94		90		67-130	4		30
Chloroethane	92		88		50-151	4		30
1,1-Dichloroethene	93		90		65-135	3		30
trans-1,2-Dichloroethene	95		92		70-130	3		30
Trichloroethene	96		93		70-130	3		30
1,2-Dichlorobenzene	96		96		70-130	0		30
1,3-Dichlorobenzene	98		97		70-130	1		30
1,4-Dichlorobenzene	97		94		70-130	3		30
Methyl tert butyl ether	89		90		66-130	1		30
p/m-Xylene	99		96		70-130	3		30
o-Xylene	98		96		70-130	2		30
cis-1,2-Dichloroethene	94		91		70-130	3		30
Dibromomethane	92		93		70-130	1		30
Styrene	98		97		70-130	1		30
Dichlorodifluoromethane	78		76		30-146	3		30
Acetone	102		100		54-140	2		30
Carbon disulfide	89		86		59-130	3		30
2-Butanone	79		77		70-130	3		30
Vinyl acetate	90		91		70-130	1		30
4-Methyl-2-pentanone	92		92		70-130	0		30
1,2,3-Trichloropropane	94		94		68-130	0		30
2-Hexanone	86		85		70-130	1		30
Bromochloromethane	90		89		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166661

Report Date: 12/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1583023-3 WG1583023-4								
2,2-Dichloropropane	92		89		70-130	3		30
1,2-Dibromoethane	91		91		70-130	0		30
1,3-Dichloropropane	98		97		69-130	1		30
1,1,1,2-Tetrachloroethane	96		94		70-130	2		30
Bromobenzene	95		94		70-130	1		30
n-Butylbenzene	104		103		70-130	1		30
sec-Butylbenzene	99		96		70-130	3		30
tert-Butylbenzene	97		95		70-130	2		30
o-Chlorotoluene	97		97		70-130	0		30
p-Chlorotoluene	98		96		70-130	2		30
1,2-Dibromo-3-chloropropane	81		83		68-130	2		30
Hexachlorobutadiene	100		97		67-130	3		30
Isopropylbenzene	98		95		70-130	3		30
p-Isopropyltoluene	101		99		70-130	2		30
Naphthalene	88		91		70-130	3		30
Acrylonitrile	93		94		70-130	1		30
n-Propylbenzene	101		98		70-130	3		30
1,2,3-Trichlorobenzene	92		93		70-130	1		30
1,2,4-Trichlorobenzene	99		99		70-130	0		30
1,3,5-Trimethylbenzene	98		95		70-130	3		30
1,2,4-Trimethylbenzene	97		95		70-130	2		30
1,4-Dioxane	111		93		65-136	18		30
p-Diethylbenzene	104		101		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166661

Report Date: 12/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1583023-3 WG1583023-4								
p-Ethyltoluene	101		98		70-130	3		30
1,2,4,5-Tetramethylbenzene	98		97		70-130	1		30
Ethyl ether	95		94		67-130	1		30
trans-1,4-Dichloro-2-butene	88		90		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		97		70-130
Toluene-d8	103		103		70-130
4-Bromofluorobenzene	100		101		70-130
Dibromofluoromethane	98		98		70-130

SEMIVOLATILES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-01
Client ID: SB-24 1-4
Sample Location: MANHATTAN, NY

Date Collected: 12/03/21 10:00
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/14/21 19:55
Analyst: JRW
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 12/13/21 01:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	320		ug/kg	110	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	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: BATTERY PARK **Lab Number:** L2166661

Project Number: 20-1152 **Report Date:** 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-01 Date Collected: 12/03/21 10:00

Client ID: SB-24 1-4 Date Received: 12/03/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	160		ug/kg	110	20.	1
Benzo(a)pyrene	150		ug/kg	140	44.	1
Benzo(b)fluoranthene	190		ug/kg	110	30.	1
Benzo(k)fluoranthene	57	J	ug/kg	110	29.	1
Chrysene	140		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	44	J	ug/kg	110	35.	1
Benzo(ghi)perylene	110	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	160		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	21	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	110	J	ug/kg	140	25.	1
Pyrene	290		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	390	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	86.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-01
Client ID: SB-24 1-4
Sample Location: MANHATTAN, NY
Date Collected: 12/03/21 10:00
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	78		10-136
4-Terphenyl-d14	80		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-02
Client ID: SB-24 10-12
Sample Location: MANHATTAN, NY

Date Collected: 12/03/21 10:30
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/14/21 20:19
Analyst: JRW
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 12/13/21 01:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	51	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	1600		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	53	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: BATTERY PARK **Lab Number:** L2166661

Project Number: 20-1152 **Report Date:** 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-02 Date Collected: 12/03/21 10:30

Client ID: SB-24 10-12 Date Received: 12/03/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	850		ug/kg	110	21.	1
Benzo(a)pyrene	710		ug/kg	150	45.	1
Benzo(b)fluoranthene	860		ug/kg	110	31.	1
Benzo(k)fluoranthene	250		ug/kg	110	29.	1
Chrysene	760		ug/kg	110	19.	1
Acenaphthylene	140	J	ug/kg	150	28.	1
Anthracene	400		ug/kg	110	36.	1
Benzo(ghi)perylene	400		ug/kg	150	22.	1
Fluorene	94	J	ug/kg	180	18.	1
Phenanthrene	960		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	100	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	450		ug/kg	150	26.	1
Pyrene	1400		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	40	J	ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-02
Client ID: SB-24 10-12
Sample Location: MANHATTAN, NY
Date Collected: 12/03/21 10:30
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	32	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	59		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	63		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-03
Client ID: SB-23 1-3
Sample Location: MANHATTAN, NY

Date Collected: 12/03/21 12:00
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/14/21 20:43
Analyst: JRW
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 12/13/21 01:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	45	J	ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	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
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	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	860		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	24	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	ND		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

Project Name: BATTERY PARK **Lab Number:** L2166661

Project Number: 20-1152 **Report Date:** 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-03 Date Collected: 12/03/21 12:00

Client ID: SB-23 1-3 Date Received: 12/03/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	430		ug/kg	100	20.	1
Benzo(a)pyrene	410		ug/kg	140	43.	1
Benzo(b)fluoranthene	510		ug/kg	100	30.	1
Benzo(k)fluoranthene	190		ug/kg	100	28.	1
Chrysene	420		ug/kg	100	18.	1
Acenaphthylene	84	J	ug/kg	140	27.	1
Anthracene	130		ug/kg	100	34.	1
Benzo(ghi)perylene	260		ug/kg	140	21.	1
Fluorene	40	J	ug/kg	180	17.	1
Phenanthrene	480		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	62	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	300		ug/kg	140	24.	1
Pyrene	780		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	41.	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	21	J	ug/kg	180	16.	1
2-Methylnaphthalene	ND		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	240	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	38.	1
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-03
Client ID: SB-23 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/03/21 12:00
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	42	J	ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	98		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	89		30-120
2,4,6-Tribromophenol	106		10-136
4-Terphenyl-d14	89		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-04
Client ID: COMP 03 (24,23)
Sample Location: MANHATTAN, NY

Date Collected: 12/03/21 12:30
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/11/21 14:17
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 12/10/21 15:34

TCLP/SPLP Ext. Date: 12/09/21 06:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	59		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	80		10-120
4-Terphenyl-d14	77		33-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/11/21 12:01
Analyst: CMM
TCLP/SPLP Extraction Date: 12/09/21 06:22

Extraction Method: EPA 3510C
Extraction Date: 12/10/21 15:34

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 04 Batch: WG1581835-1					
Hexachlorobenzene	ND		ug/l	10	3.4
2,4-Dinitrotoluene	ND		ug/l	25	1.9
Hexachlorobutadiene	ND		ug/l	10	3.0
Hexachloroethane	ND		ug/l	10	2.2
Nitrobenzene	ND		ug/l	10	3.3
2,4,6-Trichlorophenol	ND		ug/l	25	2.5
Pentachlorophenol	ND		ug/l	50	9.8
2-Methylphenol	ND		ug/l	25	5.5
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8
2,4,5-Trichlorophenol	ND		ug/l	25	1.9
Pyridine	ND		ug/l	18	4.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		21-120
Phenol-d6	63		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	85		10-120
4-Terphenyl-d14	82		33-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/15/21 08:42
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 12/13/21 01:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1582351-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/15/21 08:42
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 12/13/21 01:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1582351-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	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	61.

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/15/21 08:42
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 12/13/21 01:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1582351-1					
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.
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.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	78		10-136
4-Terphenyl-d14	76		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 04 Batch: WG1581835-2 WG1581835-3								
Hexachlorobenzene	62		73		40-140	16		30
2,4-Dinitrotoluene	65		76		40-132	16		30
Hexachlorobutadiene	53		64		28-111	19		30
Hexachloroethane	45		54		21-105	18		30
Nitrobenzene	52		60		40-140	14		30
2,4,6-Trichlorophenol	63		75		30-130	17		30
Pentachlorophenol	54		64		9-103	17		30
2-Methylphenol	50		61		30-130	20		30
3-Methylphenol/4-Methylphenol	54		63		30-130	15		30
2,4,5-Trichlorophenol	61		76		30-130	22		30
Pyridine	13		13		10-66	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	50		59		21-120
Phenol-d6	50		59		10-120
Nitrobenzene-d5	53		61		23-120
2-Fluorobiphenyl	54		63		15-120
2,4,6-Tribromophenol	65		76		10-120
4-Terphenyl-d14	59		70		33-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166661

Report Date: 12/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1582351-2 WG1582351-3								
Acenaphthene	57		66		31-137	15		50
1,2,4-Trichlorobenzene	57		65		38-107	13		50
Hexachlorobenzene	64		75		40-140	16		50
Bis(2-chloroethyl)ether	58		69		40-140	17		50
2-Chloronaphthalene	61		71		40-140	15		50
1,2-Dichlorobenzene	56		65		40-140	15		50
1,3-Dichlorobenzene	54		64		40-140	17		50
1,4-Dichlorobenzene	54		64		28-104	17		50
3,3'-Dichlorobenzidine	**38**	Q	42		40-140	10		50
2,4-Dinitrotoluene	67		75		40-132	11		50
2,6-Dinitrotoluene	70		81		40-140	15		50
Fluoranthene	60		68		40-140	13		50
4-Chlorophenyl phenyl ether	60		67		40-140	11		50
4-Bromophenyl phenyl ether	63		73		40-140	15		50
Bis(2-chloroisopropyl)ether	57		68		40-140	18		50
Bis(2-chloroethoxy)methane	59		70		40-117	17		50
Hexachlorobutadiene	59		68		40-140	14		50
Hexachlorocyclopentadiene	45		55		40-140	20		50
Hexachloroethane	57		67		40-140	16		50
Isophorone	58		67		40-140	14		50
Naphthalene	56		65		40-140	15		50
Nitrobenzene	59		68		40-140	14		50
NDPA/DPA	60		69		36-157	14		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1582351-2 WG1582351-3								
n-Nitrosodi-n-propylamine	58		67		32-121	14		50
Bis(2-ethylhexyl)phthalate	67		75		40-140	11		50
Butyl benzyl phthalate	68		75		40-140	10		50
Di-n-butylphthalate	63		70		40-140	11		50
Di-n-octylphthalate	66		75		40-140	13		50
Diethyl phthalate	62		70		40-140	12		50
Dimethyl phthalate	65		74		40-140	13		50
Benzo(a)anthracene	57		65		40-140	13		50
Benzo(a)pyrene	55		62		40-140	12		50
Benzo(b)fluoranthene	58		67		40-140	14		50
Benzo(k)fluoranthene	62		70		40-140	12		50
Chrysene	57		66		40-140	15		50
Acenaphthylene	58		69		40-140	17		50
Anthracene	57		66		40-140	15		50
Benzo(ghi)perylene	57		64		40-140	12		50
Fluorene	59		68		40-140	14		50
Phenanthrene	57		64		40-140	12		50
Dibenzo(a,h)anthracene	58		67		40-140	14		50
Indeno(1,2,3-cd)pyrene	59		66		40-140	11		50
Pyrene	59		67		35-142	13		50
Biphenyl	62		72		37-127	15		50
4-Chloroaniline	**37**	Q	45		40-140	20		50
2-Nitroaniline	71		83		47-134	16		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1582351-2 WG1582351-3								
3-Nitroaniline	46		49		26-129	6		50
4-Nitroaniline	61		68		41-125	11		50
Dibenzofuran	58		67		40-140	14		50
2-Methylnaphthalene	59		69		40-140	16		50
1,2,4,5-Tetrachlorobenzene	61		71		40-117	15		50
Acetophenone	61		71		14-144	15		50
2,4,6-Trichlorophenol	65		77		30-130	17		50
p-Chloro-m-cresol	65		76		26-103	16		50
2-Chlorophenol	61		72		25-102	17		50
2,4-Dichlorophenol	64		75		30-130	16		50
2,4-Dimethylphenol	59		70		30-130	17		50
2-Nitrophenol	68		79		30-130	15		50
4-Nitrophenol	64		75		11-114	16		50
2,4-Dinitrophenol	32		35		4-130	9		50
4,6-Dinitro-o-cresol	62		71		10-130	14		50
Pentachlorophenol	52		61		17-109	16		50
Phenol	60		70		26-90	15		50
2-Methylphenol	61		72		30-130.	17		50
3-Methylphenol/4-Methylphenol	64		75		30-130	16		50
2,4,5-Trichlorophenol	68		78		30-130	14		50
Benzoic Acid	**1**	Q	**1**	Q	10-110	8		50
Benzyl Alcohol	60		72		40-140	18		50
Carbazole	58		65		54-128	11		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166661

Report Date: 12/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1582351-2 WG1582351-3								
1,4-Dioxane	**38**	Q	45		40-140	17		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	60		70		25-120
Phenol-d6	63		73		10-120
Nitrobenzene-d5	59		70		23-120
2-Fluorobiphenyl	59		68		30-120
2,4,6-Tribromophenol	69		79		10-136
4-Terphenyl-d14	63		70		18-120

PCBS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-01
Client ID: SB-24 1-4
Sample Location: MANHATTAN, NY

Date Collected: 12/03/21 10:00
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/14/21 01:11
Analyst: AD
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 12/13/21 02:06
Cleanup Method: EPA 3665A
Cleanup Date: 12/13/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/13/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.1	3.03	1	A
Aroclor 1221	ND		ug/kg	34.1	3.42	1	A
Aroclor 1232	ND		ug/kg	34.1	7.24	1	A
Aroclor 1242	ND		ug/kg	34.1	4.60	1	A
Aroclor 1248	ND		ug/kg	34.1	5.12	1	A
Aroclor 1254	4.32	J	ug/kg	34.1	3.74	1	B
Aroclor 1260	ND		ug/kg	34.1	6.31	1	B
Aroclor 1262	ND		ug/kg	34.1	4.34	1	A
Aroclor 1268	ND		ug/kg	34.1	3.54	1	A
PCBs, Total	4.32	J	ug/kg	34.1	3.03	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-02
Client ID: SB-24 10-12
Sample Location: MANHATTAN, NY

Date Collected: 12/03/21 10:30
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/14/21 01:18
Analyst: AD
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 12/13/21 02:11
Cleanup Method: EPA 3665A
Cleanup Date: 12/13/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/13/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.8	3.27	1	A
Aroclor 1221	ND		ug/kg	36.8	3.68	1	A
Aroclor 1232	ND		ug/kg	36.8	7.80	1	A
Aroclor 1242	ND		ug/kg	36.8	4.96	1	A
Aroclor 1248	ND		ug/kg	36.8	5.52	1	A
Aroclor 1254	ND		ug/kg	36.8	4.02	1	A
Aroclor 1260	ND		ug/kg	36.8	6.80	1	A
Aroclor 1262	ND		ug/kg	36.8	4.67	1	A
Aroclor 1268	ND		ug/kg	36.8	3.81	1	A
PCBs, Total	ND		ug/kg	36.8	3.27	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-03
Client ID: SB-23 1-3
Sample Location: MANHATTAN, NY

Date Collected: 12/03/21 12:00
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/14/21 01:25
Analyst: AD
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 12/13/21 02:11
Cleanup Method: EPA 3665A
Cleanup Date: 12/13/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/13/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.8	3.09	1	A
Aroclor 1221	ND		ug/kg	34.8	3.48	1	A
Aroclor 1232	ND		ug/kg	34.8	7.37	1	A
Aroclor 1242	ND		ug/kg	34.8	4.68	1	A
Aroclor 1248	ND		ug/kg	34.8	5.21	1	A
Aroclor 1254	16.3	J	ug/kg	34.8	3.80	1	A
Aroclor 1260	15.6	J	ug/kg	34.8	6.42	1	A
Aroclor 1262	ND		ug/kg	34.8	4.41	1	A
Aroclor 1268	ND		ug/kg	34.8	3.60	1	A
PCBs, Total	31.9	J	ug/kg	34.8	3.09	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 12/13/21 12:43
Analyst: CW

Extraction Method: EPA 3546
Extraction Date: 12/12/21 15:40
Cleanup Method: EPA 3665A
Cleanup Date: 12/13/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/13/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-03 Batch: WG1582306-1						
Aroclor 1016	ND		ug/kg	32.5	2.88	A
Aroclor 1221	ND		ug/kg	32.5	3.26	A
Aroclor 1232	ND		ug/kg	32.5	6.89	A
Aroclor 1242	ND		ug/kg	32.5	4.38	A
Aroclor 1248	ND		ug/kg	32.5	4.87	A
Aroclor 1254	ND		ug/kg	32.5	3.55	A
Aroclor 1260	ND		ug/kg	32.5	6.00	A
Aroclor 1262	ND		ug/kg	32.5	4.13	A
Aroclor 1268	ND		ug/kg	32.5	3.36	A
PCBs, Total	ND		ug/kg	32.5	2.88	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	70		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166661

Report Date: 12/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1582306-2 WG1582306-3									
Aroclor 1016	62		67		40-140	8		50	A
Aroclor 1260	61		62		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		70		30-150	A
Decachlorobiphenyl	54		58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		72		30-150	B
Decachlorobiphenyl	63		67		30-150	B

PESTICIDES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-01
Client ID: SB-24 1-4
Sample Location: MANHATTAN, NY

Date Collected: 12/03/21 10:00
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/14/21 18:48
Analyst: EJL
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 12/13/21 02:42
Cleanup Method: EPA 3620B
Cleanup Date: 12/13/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.71	0.334	1	A
Lindane	ND		ug/kg	0.711	0.318	1	A
Alpha-BHC	ND		ug/kg	0.711	0.202	1	A
Beta-BHC	ND		ug/kg	1.71	0.647	1	A
Heptachlor	ND		ug/kg	0.854	0.383	1	A
Aldrin	ND		ug/kg	1.71	0.601	1	A
Heptachlor epoxide	ND		ug/kg	3.20	0.960	1	A
Endrin	ND		ug/kg	0.711	0.292	1	A
Endrin aldehyde	ND		ug/kg	2.13	0.747	1	A
Endrin ketone	ND		ug/kg	1.71	0.440	1	A
Dieldrin	1.38		ug/kg	1.07	0.534	1	B
4,4'-DDE	3.72		ug/kg	1.71	0.395	1	A
4,4'-DDD	ND		ug/kg	1.71	0.609	1	A
4,4'-DDT	6.34		ug/kg	3.20	1.37	1	A
Endosulfan I	ND		ug/kg	1.71	0.403	1	A
Endosulfan II	ND		ug/kg	1.71	0.570	1	A
Endosulfan sulfate	ND		ug/kg	0.711	0.338	1	A
Methoxychlor	ND		ug/kg	3.20	0.996	1	A
Toxaphene	ND		ug/kg	32.0	8.96	1	A
cis-Chlordane	2.25	IP	ug/kg	2.13	0.595	1	B
trans-Chlordane	2.77		ug/kg	2.13	0.563	1	A
Chlordane	ND		ug/kg	14.2	5.66	1	A

Project Name: BATTERY PARK
Lab Number: L2166661
Project Number: 20-1152
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-01
Client ID: SB-24 1-4
Sample Location: MANHATTAN, NY
Date Collected: 12/03/21 10:00
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	99		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	88		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-02
Client ID: SB-24 10-12
Sample Location: MANHATTAN, NY

Date Collected: 12/03/21 10:30
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/14/21 19:01
Analyst: EJL
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 12/13/21 02:42
Cleanup Method: EPA 3620B
Cleanup Date: 12/13/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.72	0.337	1	A
Lindane	ND		ug/kg	0.718	0.321	1	A
Alpha-BHC	ND		ug/kg	0.718	0.204	1	A
Beta-BHC	ND		ug/kg	1.72	0.653	1	A
Heptachlor	ND		ug/kg	0.861	0.386	1	A
Aldrin	ND		ug/kg	1.72	0.606	1	A
Heptachlor epoxide	ND		ug/kg	3.23	0.969	1	A
Endrin	ND		ug/kg	0.718	0.294	1	A
Endrin aldehyde	ND		ug/kg	2.15	0.754	1	A
Endrin ketone	ND		ug/kg	1.72	0.444	1	A
Dieldrin	ND		ug/kg	1.08	0.538	1	A
4,4'-DDE	ND		ug/kg	1.72	0.398	1	A
4,4'-DDD	ND		ug/kg	1.72	0.614	1	A
4,4'-DDT	ND		ug/kg	3.23	1.38	1	B
Endosulfan I	ND		ug/kg	1.72	0.407	1	A
Endosulfan II	ND		ug/kg	1.72	0.576	1	A
Endosulfan sulfate	ND		ug/kg	0.718	0.342	1	A
Methoxychlor	ND		ug/kg	3.23	1.00	1	A
Toxaphene	ND		ug/kg	32.3	9.04	1	A
cis-Chlordane	ND		ug/kg	2.15	0.600	1	A
trans-Chlordane	ND		ug/kg	2.15	0.568	1	A
Chlordane	ND		ug/kg	14.4	5.70	1	A

Project Name: BATTERY PARK
Lab Number: L2166661
Project Number: 20-1152
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-02
Client ID: SB-24 10-12
Sample Location: MANHATTAN, NY
Date Collected: 12/03/21 10:30
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-03
Client ID: SB-23 1-3
Sample Location: MANHATTAN, NY

Date Collected: 12/03/21 12:00
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/14/21 19:13
Analyst: EJL
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 12/13/21 02:42
Cleanup Method: EPA 3620B
Cleanup Date: 12/13/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.71	0.334	1	A
Lindane	ND		ug/kg	0.711	0.318	1	A
Alpha-BHC	ND		ug/kg	0.711	0.202	1	A
Beta-BHC	ND		ug/kg	1.71	0.647	1	A
Heptachlor	ND		ug/kg	0.853	0.382	1	A
Aldrin	ND		ug/kg	1.71	0.601	1	A
Heptachlor epoxide	ND		ug/kg	3.20	0.960	1	A
Endrin	ND		ug/kg	0.711	0.291	1	A
Endrin aldehyde	ND		ug/kg	2.13	0.746	1	A
Endrin ketone	ND		ug/kg	1.71	0.439	1	A
Dieldrin	ND		ug/kg	1.07	0.533	1	A
4,4'-DDE	1.60	J	ug/kg	1.71	0.394	1	A
4,4'-DDD	1.34	J	ug/kg	1.71	0.608	1	A
4,4'-DDT	6.64		ug/kg	3.20	1.37	1	B
Endosulfan I	ND		ug/kg	1.71	0.403	1	A
Endosulfan II	ND		ug/kg	1.71	0.570	1	A
Endosulfan sulfate	ND		ug/kg	0.711	0.338	1	A
Methoxychlor	ND		ug/kg	3.20	0.995	1	A
Toxaphene	ND		ug/kg	32.0	8.96	1	A
cis-Chlordane	1.95	J	ug/kg	2.13	0.594	1	A
trans-Chlordane	2.24		ug/kg	2.13	0.563	1	B
Chlordane	ND		ug/kg	14.2	5.65	1	A

Project Name: BATTERY PARK
Lab Number: L2166661
Project Number: 20-1152
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-03
Client ID: SB-23 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/03/21 12:00
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-04
Client ID: COMP 03 (24,23)
Sample Location: MANHATTAN, NY

Date Collected: 12/03/21 12:30
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/11/21 12:53
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 12/10/21 13:18

TCLP/SPLP Ext. Date: 12/09/21 06:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Pesticides by EPA 1311 - Westborough Lab							
Lindane	ND		ug/l	0.100	0.022	1	A
Heptachlor	ND		ug/l	0.100	0.016	1	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	1	A
Endrin	ND		ug/l	0.200	0.021	1	A
Methoxychlor	ND		ug/l	1.00	0.034	1	A
Toxaphene	ND		ug/l	1.00	0.314	1	A
Chlordane	ND		ug/l	1.00	0.232	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	131		30-150	A
Decachlorobiphenyl	130		30-150	A
2,4,5,6-Tetrachloro-m-xylene	117		30-150	B
Decachlorobiphenyl	99		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-04
Client ID: COMP 03 (24,23)
Sample Location: MANHATTAN, NY

Date Collected: 12/03/21 12:30
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/13/21 21:44
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 12/11/21 00:05

TCLP/SPLP Ext. Date: 12/09/21 06:22
Methylation Date: 12/12/21 03:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Herbicides by EPA 1311 - Westborough Lab							
2,4-D	ND		mg/l	0.025	0.001	1	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	75		30-150	A
DCAA	68		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/11/21 10:59
Analyst: EJL
TCLP/SPLP Extraction Date: 12/09/21 06:22

Extraction Method: EPA 3510C
Extraction Date: 12/10/21 13:18

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Pesticides by EPA 1311 - Westborough Lab for sample(s): 04 Batch: WG1581763-1						
Lindane	ND		ug/l	0.100	0.022	A
Heptachlor	ND		ug/l	0.100	0.016	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	A
Endrin	ND		ug/l	0.200	0.021	A
Methoxychlor	ND		ug/l	1.00	0.034	A
Toxaphene	ND		ug/l	1.00	0.314	A
Chlordane	ND		ug/l	1.00	0.232	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 12/13/21 18:41
Analyst: EJL
TCLP/SPLP Extraction Date: 12/09/21 06:22
Methylation Date: 12/12/21 03:00

Extraction Method: EPA 8151A
Extraction Date: 12/11/21 00:05

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Herbicides by EPA 1311 - Westborough Lab for sample(s): 04 Batch: WG1581922-1						
2,4-D	ND		mg/l	0.025	0.001	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	75		30-150	A
DCAA	62		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/13/21 15:39
Analyst: EJL

Extraction Method: EPA 3546
Extraction Date: 12/12/21 11:44
Cleanup Method: EPA 3620B
Cleanup Date: 12/12/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1582260-1						
Delta-BHC	ND		ug/kg	1.52	0.297	A
Lindane	ND		ug/kg	0.633	0.283	A
Alpha-BHC	ND		ug/kg	0.633	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.576	A
Heptachlor	ND		ug/kg	0.759	0.340	A
Aldrin	ND		ug/kg	1.52	0.535	A
Heptachlor epoxide	ND		ug/kg	2.85	0.854	A
Endrin	ND		ug/kg	0.633	0.259	A
Endrin aldehyde	ND		ug/kg	1.90	0.664	A
Endrin ketone	ND		ug/kg	1.52	0.391	A
Dieldrin	ND		ug/kg	0.949	0.475	A
4,4'-DDE	ND		ug/kg	1.52	0.351	A
4,4'-DDD	ND		ug/kg	1.52	0.542	A
4,4'-DDT	ND		ug/kg	2.85	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.359	A
Endosulfan II	ND		ug/kg	1.52	0.508	A
Endosulfan sulfate	ND		ug/kg	0.633	0.301	A
Methoxychlor	ND		ug/kg	2.85	0.886	A
Toxaphene	ND		ug/kg	28.5	7.97	A
cis-Chlordane	ND		ug/kg	1.90	0.529	A
trans-Chlordane	ND		ug/kg	1.90	0.501	A
Chlordane	ND		ug/kg	12.6	5.03	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/13/21 15:39
Analyst: EJL

Extraction Method: EPA 3546
Extraction Date: 12/12/21 11:44
Cleanup Method: EPA 3620B
Cleanup Date: 12/12/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1582260-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	80		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166661

Report Date: 12/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Pesticides by EPA 1311 - Westborough Lab Associated sample(s): 04 Batch: WG1581763-2 WG1581763-3									
Lindane	103		109		30-150	6		20	A
Heptachlor	106		116		30-150	9		20	A
Heptachlor epoxide	105		116		30-150	10		20	A
Endrin	106		119		30-150	12		20	A
Methoxychlor	121		137		30-150	12		20	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		99		30-150	A
Decachlorobiphenyl	89		103		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		92		30-150	B
Decachlorobiphenyl	72		82		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166661
Report Date: 12/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Herbicides by EPA 1311 - Westborough Lab Associated sample(s): 04 Batch: WG1581922-2 WG1581922-3									
2,4-D	97		105		30-150	8		25	A
2,4,5-TP (Silvex)	58		66		30-150	13		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	70		68		30-150	A
DCAA	72		77		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166661

Report Date: 12/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1582260-2 WG1582260-3									
Delta-BHC	87		91		30-150	4		30	A
Lindane	105		105		30-150	0		30	A
Alpha-BHC	90		89		30-150	1		30	A
Beta-BHC	109		107		30-150	2		30	A
Heptachlor	113		116		30-150	3		30	A
Aldrin	106		108		30-150	2		30	A
Heptachlor epoxide	90		68		30-150	28		30	A
Endrin	104		107		30-150	3		30	A
Endrin aldehyde	57		67		30-150	16		30	A
Endrin ketone	86		95		30-150	10		30	A
Dieldrin	108		111		30-150	3		30	A
4,4'-DDE	96		98		30-150	2		30	A
4,4'-DDD	115		117		30-150	2		30	A
4,4'-DDT	104		106		30-150	2		30	A
Endosulfan I	92		94		30-150	2		30	A
Endosulfan II	100		104		30-150	4		30	A
Endosulfan sulfate	82		95		30-150	15		30	A
Methoxychlor	101		113		30-150	11		30	A
cis-Chlordane	77		79		30-150	3		30	A
trans-Chlordane	113		117		30-150	3		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166661

Report Date: 12/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1582260-2 WG1582260-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		96		30-150	A
Decachlorobiphenyl	89		97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	98		97		30-150	B
Decachlorobiphenyl	138		96		30-150	B

METALS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-01
Client ID: SB-24 1-4
Sample Location: MANHATTAN, NY
Date Collected: 12/03/21 10:00
Date Received: 12/03/21
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	2420		mg/kg	8.46	2.28	2	12/16/21 06:10	12/16/21 18:40	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.23	0.321	2	12/16/21 06:10	12/16/21 18:40	EPA 3050B	1,6010D	EW
Arsenic, Total	0.719	J	mg/kg	0.846	0.176	2	12/16/21 06:10	12/16/21 18:40	EPA 3050B	1,6010D	EW
Barium, Total	21.1		mg/kg	0.846	0.147	2	12/16/21 06:10	12/16/21 18:40	EPA 3050B	1,6010D	EW
Beryllium, Total	0.068	J	mg/kg	0.423	0.028	2	12/16/21 06:10	12/16/21 18:40	EPA 3050B	1,6010D	EW
Cadmium, Total	0.135	J	mg/kg	0.846	0.083	2	12/16/21 06:10	12/16/21 18:40	EPA 3050B	1,6010D	EW
Calcium, Total	1760		mg/kg	8.46	2.96	2	12/16/21 06:10	12/16/21 18:40	EPA 3050B	1,6010D	EW
Chromium, Total	5.82		mg/kg	0.846	0.081	2	12/16/21 06:10	12/16/21 18:40	EPA 3050B	1,6010D	EW
Cobalt, Total	2.96		mg/kg	1.69	0.140	2	12/16/21 06:10	12/16/21 18:40	EPA 3050B	1,6010D	EW
Copper, Total	13.3		mg/kg	0.846	0.218	2	12/16/21 06:10	12/16/21 18:40	EPA 3050B	1,6010D	EW
Iron, Total	6400		mg/kg	4.23	0.764	2	12/16/21 06:10	12/16/21 18:40	EPA 3050B	1,6010D	EW
Lead, Total	12.7		mg/kg	4.23	0.227	2	12/16/21 06:10	12/16/21 18:40	EPA 3050B	1,6010D	EW
Magnesium, Total	1530		mg/kg	8.46	1.30	2	12/16/21 06:10	12/16/21 18:40	EPA 3050B	1,6010D	EW
Manganese, Total	58.5		mg/kg	0.846	0.134	2	12/16/21 06:10	12/16/21 18:40	EPA 3050B	1,6010D	EW
Mercury, Total	ND		mg/kg	0.068	0.044	1	12/16/21 08:10	12/17/21 07:59	EPA 7471B	1,7471B	AC
Nickel, Total	5.76		mg/kg	2.11	0.205	2	12/16/21 06:10	12/16/21 18:40	EPA 3050B	1,6010D	EW
Potassium, Total	1440		mg/kg	211	12.2	2	12/16/21 06:10	12/16/21 18:40	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.69	0.218	2	12/16/21 06:10	12/16/21 18:40	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.846	0.239	2	12/16/21 06:10	12/16/21 18:40	EPA 3050B	1,6010D	EW
Sodium, Total	73.6	J	mg/kg	169	2.66	2	12/16/21 06:10	12/16/21 18:40	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.69	0.266	2	12/16/21 06:10	12/16/21 18:40	EPA 3050B	1,6010D	EW
Vanadium, Total	7.39		mg/kg	0.846	0.172	2	12/16/21 06:10	12/16/21 18:40	EPA 3050B	1,6010D	EW
Zinc, Total	19.5		mg/kg	4.23	0.248	2	12/16/21 06:10	12/16/21 18:40	EPA 3050B	1,6010D	EW

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-02
Client ID: SB-24 10-12
Sample Location: MANHATTAN, NY
Date Collected: 12/03/21 10:30
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2370		mg/kg	8.76	2.36	2	12/16/21 06:10	12/16/21 18:45	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.38	0.333	2	12/16/21 06:10	12/16/21 18:45	EPA 3050B	1,6010D	EW
Arsenic, Total	2.86		mg/kg	0.876	0.182	2	12/16/21 06:10	12/16/21 18:45	EPA 3050B	1,6010D	EW
Barium, Total	10.5		mg/kg	0.876	0.152	2	12/16/21 06:10	12/16/21 18:45	EPA 3050B	1,6010D	EW
Beryllium, Total	0.096	J	mg/kg	0.438	0.029	2	12/16/21 06:10	12/16/21 18:45	EPA 3050B	1,6010D	EW
Cadmium, Total	0.149	J	mg/kg	0.876	0.086	2	12/16/21 06:10	12/16/21 18:45	EPA 3050B	1,6010D	EW
Calcium, Total	9980		mg/kg	8.76	3.06	2	12/16/21 06:10	12/16/21 18:45	EPA 3050B	1,6010D	EW
Chromium, Total	13.6		mg/kg	0.876	0.084	2	12/16/21 06:10	12/16/21 18:45	EPA 3050B	1,6010D	EW
Cobalt, Total	3.26		mg/kg	1.75	0.145	2	12/16/21 06:10	12/16/21 18:45	EPA 3050B	1,6010D	EW
Copper, Total	74.2		mg/kg	0.876	0.226	2	12/16/21 06:10	12/16/21 18:45	EPA 3050B	1,6010D	EW
Iron, Total	6530		mg/kg	4.38	0.791	2	12/16/21 06:10	12/16/21 18:45	EPA 3050B	1,6010D	EW
Lead, Total	16.2		mg/kg	4.38	0.235	2	12/16/21 06:10	12/16/21 18:45	EPA 3050B	1,6010D	EW
Magnesium, Total	4790		mg/kg	8.76	1.35	2	12/16/21 06:10	12/16/21 18:45	EPA 3050B	1,6010D	EW
Manganese, Total	103		mg/kg	0.876	0.139	2	12/16/21 06:10	12/16/21 18:45	EPA 3050B	1,6010D	EW
Mercury, Total	0.268		mg/kg	0.071	0.046	1	12/16/21 08:10	12/17/21 08:02	EPA 7471B	1,7471B	AC
Nickel, Total	7.79		mg/kg	2.19	0.212	2	12/16/21 06:10	12/16/21 18:45	EPA 3050B	1,6010D	EW
Potassium, Total	392		mg/kg	219	12.6	2	12/16/21 06:10	12/16/21 18:45	EPA 3050B	1,6010D	EW
Selenium, Total	0.377	J	mg/kg	1.75	0.226	2	12/16/21 06:10	12/16/21 18:45	EPA 3050B	1,6010D	EW
Silver, Total	0.490	J	mg/kg	0.876	0.248	2	12/16/21 06:10	12/16/21 18:45	EPA 3050B	1,6010D	EW
Sodium, Total	104	J	mg/kg	175	2.76	2	12/16/21 06:10	12/16/21 18:45	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.75	0.276	2	12/16/21 06:10	12/16/21 18:45	EPA 3050B	1,6010D	EW
Vanadium, Total	10.8		mg/kg	0.876	0.178	2	12/16/21 06:10	12/16/21 18:45	EPA 3050B	1,6010D	EW
Zinc, Total	20.9		mg/kg	4.38	0.257	2	12/16/21 06:10	12/16/21 18:45	EPA 3050B	1,6010D	EW

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-03
Client ID: SB-23 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/03/21 12:00
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 93%

Total Metals - Mansfield Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Aluminum, Total	2300		mg/kg	8.26	2.23	2	12/16/21 06:10	12/16/21 18:50	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.13	0.314	2	12/16/21 06:10	12/16/21 18:50	EPA 3050B	1,6010D	EW
Arsenic, Total	1.83		mg/kg	0.826	0.172	2	12/16/21 06:10	12/16/21 18:50	EPA 3050B	1,6010D	EW
Barium, Total	62.9		mg/kg	0.826	0.144	2	12/16/21 06:10	12/16/21 18:50	EPA 3050B	1,6010D	EW
Beryllium, Total	0.107	J	mg/kg	0.413	0.027	2	12/16/21 06:10	12/16/21 18:50	EPA 3050B	1,6010D	EW
Cadmium, Total	0.264	J	mg/kg	0.826	0.081	2	12/16/21 06:10	12/16/21 18:50	EPA 3050B	1,6010D	EW
Calcium, Total	13300		mg/kg	8.26	2.89	2	12/16/21 06:10	12/16/21 18:50	EPA 3050B	1,6010D	EW
Chromium, Total	7.82		mg/kg	0.826	0.079	2	12/16/21 06:10	12/16/21 18:50	EPA 3050B	1,6010D	EW
Cobalt, Total	2.85		mg/kg	1.65	0.137	2	12/16/21 06:10	12/16/21 18:50	EPA 3050B	1,6010D	EW
Copper, Total	14.8		mg/kg	0.826	0.213	2	12/16/21 06:10	12/16/21 18:50	EPA 3050B	1,6010D	EW
Iron, Total	6000		mg/kg	4.13	0.746	2	12/16/21 06:10	12/16/21 18:50	EPA 3050B	1,6010D	EW
Lead, Total	44.2		mg/kg	4.13	0.221	2	12/16/21 06:10	12/16/21 18:50	EPA 3050B	1,6010D	EW
Magnesium, Total	5290		mg/kg	8.26	1.27	2	12/16/21 06:10	12/16/21 18:50	EPA 3050B	1,6010D	EW
Manganese, Total	96.1		mg/kg	0.826	0.131	2	12/16/21 06:10	12/16/21 18:50	EPA 3050B	1,6010D	EW
Mercury, Total	0.191		mg/kg	0.069	0.045	1	12/16/21 08:10	12/17/21 08:12	EPA 7471B	1,7471B	AC
Nickel, Total	9.90		mg/kg	2.06	0.200	2	12/16/21 06:10	12/16/21 18:50	EPA 3050B	1,6010D	EW
Potassium, Total	648		mg/kg	206	11.9	2	12/16/21 06:10	12/16/21 18:50	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.65	0.213	2	12/16/21 06:10	12/16/21 18:50	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.826	0.234	2	12/16/21 06:10	12/16/21 18:50	EPA 3050B	1,6010D	EW
Sodium, Total	118	J	mg/kg	165	2.60	2	12/16/21 06:10	12/16/21 18:50	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.65	0.260	2	12/16/21 06:10	12/16/21 18:50	EPA 3050B	1,6010D	EW
Vanadium, Total	9.61		mg/kg	0.826	0.168	2	12/16/21 06:10	12/16/21 18:50	EPA 3050B	1,6010D	EW
Zinc, Total	58.8		mg/kg	4.13	0.242	2	12/16/21 06:10	12/16/21 18:50	EPA 3050B	1,6010D	EW

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-04
Client ID: COMP 03 (24,23)
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil

Date Collected: 12/03/21 12:30
Date Received: 12/03/21
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 12/09/21 06:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	12/10/21 10:22	12/16/21 13:14	EPA 3015	1,6010D	EW
Barium, TCLP	0.259	J	mg/l	0.500	0.021	1	12/10/21 10:22	12/16/21 13:14	EPA 3015	1,6010D	EW
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	12/10/21 10:22	12/16/21 13:14	EPA 3015	1,6010D	EW
Chromium, TCLP	ND		mg/l	0.200	0.021	1	12/10/21 10:22	12/16/21 13:14	EPA 3015	1,6010D	EW
Lead, TCLP	0.035	J	mg/l	0.500	0.027	1	12/10/21 10:22	12/16/21 13:14	EPA 3015	1,6010D	EW
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	12/10/21 10:07	12/10/21 14:32	EPA 7470A	1,7470A	NB
Selenium, TCLP	ND		mg/l	0.500	0.035	1	12/10/21 10:22	12/16/21 13:14	EPA 3015	1,6010D	EW
Silver, TCLP	ND		mg/l	0.100	0.028	1	12/10/21 10:22	12/16/21 13:14	EPA 3015	1,6010D	EW

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 04 Batch: WG1581583-1										
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	12/10/21 10:22	12/16/21 12:10	1,6010D	EW
Barium, TCLP	ND		mg/l	0.500	0.021	1	12/10/21 10:22	12/16/21 12:10	1,6010D	EW
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	12/10/21 10:22	12/16/21 12:10	1,6010D	EW
Chromium, TCLP	ND		mg/l	0.200	0.021	1	12/10/21 10:22	12/16/21 12:10	1,6010D	EW
Lead, TCLP	ND		mg/l	0.500	0.027	1	12/10/21 10:22	12/16/21 12:10	1,6010D	EW
Selenium, TCLP	ND		mg/l	0.500	0.035	1	12/10/21 10:22	12/16/21 12:10	1,6010D	EW
Silver, TCLP	ND		mg/l	0.100	0.028	1	12/10/21 10:22	12/16/21 12:10	1,6010D	EW

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 12/09/21 06:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 04 Batch: WG1581586-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	12/10/21 10:07	12/10/21 13:52	1,7470A	NB

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 12/09/21 06:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1583092-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	12/16/21 06:10	12/16/21 14:29	1,6010D	EW
Antimony, Total	ND		mg/kg	2.00	0.152	1	12/16/21 06:10	12/16/21 14:29	1,6010D	EW
Arsenic, Total	ND		mg/kg	0.400	0.083	1	12/16/21 06:10	12/16/21 14:29	1,6010D	EW
Barium, Total	ND		mg/kg	0.400	0.070	1	12/16/21 06:10	12/16/21 14:29	1,6010D	EW
Beryllium, Total	ND		mg/kg	0.200	0.013	1	12/16/21 06:10	12/16/21 14:29	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.400	0.039	1	12/16/21 06:10	12/16/21 14:29	1,6010D	EW
Calcium, Total	ND		mg/kg	4.00	1.40	1	12/16/21 06:10	12/16/21 14:29	1,6010D	EW
Chromium, Total	ND		mg/kg	0.400	0.038	1	12/16/21 06:10	12/16/21 14:29	1,6010D	EW
Cobalt, Total	ND		mg/kg	0.800	0.066	1	12/16/21 06:10	12/16/21 14:29	1,6010D	EW

Project Name: BATTERY PARK **Lab Number:** L2166661

Project Number: 20-1152 **Report Date:** 12/17/21

Method Blank Analysis
Batch Quality Control

Copper, Total	ND		mg/kg	0.400	0.103	1	12/16/21 06:10	12/16/21 14:29	1,6010D	EW
Iron, Total	ND		mg/kg	2.00	0.361	1	12/16/21 06:10	12/16/21 14:29	1,6010D	EW
Lead, Total	ND		mg/kg	2.00	0.107	1	12/16/21 06:10	12/16/21 14:29	1,6010D	EW
Magnesium, Total	ND		mg/kg	4.00	0.616	1	12/16/21 06:10	12/16/21 14:29	1,6010D	EW
Manganese, Total	ND		mg/kg	0.400	0.064	1	12/16/21 06:10	12/16/21 14:29	1,6010D	EW
Nickel, Total	ND		mg/kg	1.00	0.097	1	12/16/21 06:10	12/16/21 14:29	1,6010D	EW
Potassium, Total	ND		mg/kg	100	5.76	1	12/16/21 06:10	12/16/21 14:29	1,6010D	EW
Selenium, Total	ND		mg/kg	0.800	0.103	1	12/16/21 06:10	12/16/21 14:29	1,6010D	EW
Silver, Total	ND		mg/kg	0.400	0.113	1	12/16/21 06:10	12/16/21 14:29	1,6010D	EW
Sodium, Total	8.49	J	mg/kg	80.0	1.26	1	12/16/21 06:10	12/16/21 14:29	1,6010D	EW
Thallium, Total	ND		mg/kg	0.800	0.126	1	12/16/21 06:10	12/16/21 14:29	1,6010D	EW
Vanadium, Total	ND		mg/kg	0.400	0.081	1	12/16/21 06:10	12/16/21 14:29	1,6010D	EW
Zinc, Total	ND		mg/kg	2.00	0.117	1	12/16/21 06:10	12/16/21 14:29	1,6010D	EW

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): 01-03 Batch: WG1583094-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	12/16/21 08:10	12/17/21 06:56	1,7471B	AC

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166661

Report Date: 12/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 04 Batch: WG1581583-2								
Arsenic, TCLP	103		-		75-125	-		20
Barium, TCLP	101		-		75-125	-		20
Cadmium, TCLP	100		-		75-125	-		20
Chromium, TCLP	98		-		75-125	-		20
Lead, TCLP	96		-		75-125	-		20
Selenium, TCLP	103		-		75-125	-		20
Silver, TCLP	98		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 04 Batch: WG1581586-2								
Mercury, TCLP	101		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166661

Report Date: 12/17/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1583092-2 SRM Lot Number: D113-540					
Aluminum, Total	70	-	51-149	-	
Antimony, Total	163	-	20-250	-	
Arsenic, Total	95	-	70-130	-	
Barium, Total	90	-	75-125	-	
Beryllium, Total	93	-	75-125	-	
Cadmium, Total	93	-	75-125	-	
Calcium, Total	93	-	73-128	-	
Chromium, Total	93	-	70-130	-	
Cobalt, Total	93	-	75-125	-	
Copper, Total	91	-	75-125	-	
Iron, Total	98	-	36-164	-	
Lead, Total	92	-	72-128	-	
Magnesium, Total	83	-	63-138	-	
Manganese, Total	90	-	77-123	-	
Nickel, Total	92	-	70-130	-	
Potassium, Total	83	-	59-141	-	
Selenium, Total	92	-	66-134	-	
Silver, Total	94	-	70-131	-	
Sodium, Total	94	-	35-164	-	
Thallium, Total	92	-	70-130	-	
Vanadium, Total	93	-	74-126	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166661

Report Date: 12/17/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1583092-2 SRM Lot Number: D113-540					
Zinc, Total	92	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1583094-2 SRM Lot Number: D113-540					
Mercury, Total	70	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166661
Report Date: 12/17/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1581583-3 QC Sample: L2166465-01 Client ID: MS Sample												
Arsenic, TCLP	ND	1.2	1.21	101		-	-		75-125	-		20
Barium, TCLP	0.228J	20	20.3	102		-	-		75-125	-		20
Cadmium, TCLP	ND	0.53	0.519	98		-	-		75-125	-		20
Chromium, TCLP	ND	2	1.89	94		-	-		75-125	-		20
Lead, TCLP	ND	5.3	5.01	94		-	-		75-125	-		20
Selenium, TCLP	ND	1.2	1.22	102		-	-		75-125	-		20
Silver, TCLP	ND	0.5	0.477	95		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1581586-3 QC Sample: L2166465-01 Client ID: MS Sample												
Mercury, TCLP	ND	0.025	0.0249	99		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166661
Report Date: 12/17/21

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): 01-03 QC Batch ID: WG1583092-3 QC Sample: L2166399-01 Client ID: MS Sample										
Aluminum, Total	5840	176	5360	**0**	Q	-	-	75-125	-	20
Antimony, Total	0.194J	43.9	20.3	**46**	Q	-	-	75-125	-	20
Arsenic, Total	6.01	10.5	10.7	**44**	Q	-	-	75-125	-	20
Barium, Total	28.9	176	111	**47**	Q	-	-	75-125	-	20
Beryllium, Total	0.349	4.39	2.47	**48**	Q	-	-	75-125	-	20
Cadmium, Total	0.487	4.66	2.47	**42**	Q	-	-	75-125	-	20
Calcium, Total	14400	878	37500	**2630**	Q	-	-	75-125	-	20
Chromium, Total	8.66	17.6	14.9	**36**	Q	-	-	75-125	-	20
Cobalt, Total	6.40	43.9	22.7	**37**	Q	-	-	75-125	-	20
Copper, Total	21.0	22	31.6	**48**	Q	-	-	75-125	-	20
Iron, Total	14200	87.8	12000	**0**	Q	-	-	75-125	-	20
Lead, Total	10.2	46.6	28.0	**38**	Q	-	-	75-125	-	20
Magnesium, Total	2360	878	2880	**59**	Q	-	-	75-125	-	20
Manganese, Total	208	43.9	176	**0**	Q	-	-	75-125	-	20
Nickel, Total	20.6	43.9	36.4	**36**	Q	-	-	75-125	-	20
Potassium, Total	395	878	826	**49**	Q	-	-	75-125	-	20
Selenium, Total	0.947	10.5	6.18	**50**	Q	-	-	75-125	-	20
Silver, Total	ND	26.4	15.8	**60**	Q	-	-	75-125	-	20
Sodium, Total	38.6J	878	534	**61**	Q	-	-	75-125	-	20
Thallium, Total	0.314J	10.5	4.12	**39**	Q	-	-	75-125	-	20
Vanadium, Total	14.1	43.9	32.5	**42**	Q	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166661
Report Date: 12/17/21

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): 01-03 QC Batch ID: WG1583092-3 QC Sample: L2166399-01 Client ID: MS Sample										
Zinc, Total	55.6	43.9	70.2	**33**	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1583094-3 QC Sample: L2166399-01 Client ID: MS Sample										
Mercury, Total	ND	0.141	0.179	**127**	Q	-	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166661
Report Date: 12/17/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1581583-4 QC Sample: L2166465-01 Client ID: DUP Sample						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Barium, TCLP	0.228J	0.232J	mg/l	NC		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	ND	ND	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1581586-4 QC Sample: L2166465-01 Client ID: DUP Sample						
Mercury, TCLP	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166661
Report Date: 12/17/21

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1583092-4 QC Sample: L2166399-01 Client ID: DUP Sample						
Arsenic, Total	6.01	4.78	mg/kg	**23**	Q	20
Barium, Total	28.9	24.2	mg/kg	18		20
Beryllium, Total	0.349	0.333	mg/kg	5		20
Cadmium, Total	0.487	0.489	mg/kg	0		20
Chromium, Total	8.66	8.42	mg/kg	3		20
Copper, Total	21.0	20.1	mg/kg	4		20
Lead, Total	10.2	10.4	mg/kg	2		20
Manganese, Total	208	134	mg/kg	**43**	Q	20
Nickel, Total	20.6	20.2	mg/kg	2		20
Selenium, Total	0.947	0.887	mg/kg	7		20
Silver, Total	ND	ND	mg/kg	NC		20
Zinc, Total	55.6	50.1	mg/kg	10		20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1583094-4 QC Sample: L2166399-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2166661
Report Date: 12/17/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1583092-6 QC Sample: L2166399-01 Client ID: DUP Sample						
Barium, Total	28.9	40.5	mg/kg	**40**	Q	20
Copper, Total	21.0	29.3	mg/kg	**40**	Q	20
Zinc, Total	55.6	84.1	mg/kg	**51**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-04
Client ID: COMP 03 (24,23)
Sample Location: MANHATTAN, NY
Date Collected: 12/03/21 12:30
Date Received: 12/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Sand
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	12/16/21 11:20	1,1030	MD

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-01
Client ID: SB-24 1-4
Sample Location: MANHATTAN, NY

Date Collected: 12/03/21 10:00
Date Received: 12/03/21
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	93.1		%	0.100	NA	1	-	12/04/21 11:20	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	12/08/21 11:40	12/08/21 14:58	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.859	0.172	1	12/08/21 16:24	12/15/21 08:30	1,7196A	JT

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-02
Client ID: SB-24 10-12
Sample Location: MANHATTAN, NY

Date Collected: 12/03/21 10:30
Date Received: 12/03/21
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	89.2		%	0.100	NA	1	-	12/04/21 11:20	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	12/08/21 11:40	12/08/21 14:59	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.897	0.179	1	12/08/21 16:24	12/15/21 08:30	1,7196A	JT

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-03
Client ID: SB-23 1-3
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil

Date Collected: 12/03/21 12:00
Date Received: 12/03/21
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	93.1		%	0.100	NA	1	-	12/04/21 11:20	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	12/08/21 11:40	12/08/21 15:00	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.859	0.172	1	12/08/21 16:24	12/15/21 08:30	1,7196A	JT

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166661
Report Date: 12/17/21

SAMPLE RESULTS

Lab ID: L2166661-04
Client ID: COMP 03 (24,23)
Sample Location: MANHATTAN, NY

Date Collected: 12/03/21 12:30
Date Received: 12/03/21
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										
pH (H)	9.0		SU	-	NA	1	-	12/14/21 22:12	1,9045D	AS
Cyanide, Reactive	ND		mg/kg	10	10.	1	12/17/21 13:30	12/17/21 16:03	125,7.3	MJ
Sulfide, Reactive	ND		mg/kg	10	10.	1	12/17/21 13:30	12/17/21 15:21	125,7.3	MJ

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166661
Report Date: 12/17/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1580379-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	12/08/21 16:24	12/15/21 08:30	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1580491-1										
Cyanide, Total	ND		mg/kg	0.87	0.18	1	12/08/21 11:40	12/08/21 14:52	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 04 Batch: WG1584575-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	12/17/21 13:30	12/17/21 15:18	125,7.3	MJ
General Chemistry - Westborough Lab for sample(s): 04 Batch: WG1584577-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	12/17/21 13:30	12/17/21 16:00	125,7.3	MJ

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166661

Report Date: 12/17/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1580379-2								
Chromium, Hexavalent	80		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1580491-2 WG1580491-3								
Cyanide, Total	98		102		80-120	5		35
General Chemistry - Westborough Lab Associated sample(s): 04 Batch: WG1583333-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 04 Batch: WG1584575-2								
Sulfide, Reactive	105		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 04 Batch: WG1584577-2								
Cyanide, Reactive	79		-		30-125	-		40

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166661
Report Date: 12/17/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1580379-4 QC Sample: L2166661-02 Client ID: SB-24 10-12												
Chromium, Hexavalent	ND	1050	958	91		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1580491-4 WG1580491-5 QC Sample: L2166797-01 Client ID: MS Sample												
Cyanide, Total	ND	10	12	120		13	120		75-125	8		35

Lab Duplicate Analysis

Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166661
Report Date: 12/17/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1579122-1 QC Sample: L2166670-03 Client ID: DUP Sample						
Solids, Total	82.6	81.4	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1580379-6 QC Sample: L2166661-02 Client ID: SB-24 10-12						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1583333-2 QC Sample: L2166592-01 Client ID: DUP Sample						
pH	11.0	10.9	SU	1		5

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166661
Report Date: 12/17/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2166661-01A	Vial MeOH preserved	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2166661-01B	Vial water preserved	A	NA		3.4	Y	Absent	04-DEC-21 08:02	NYTCL-8260HLW(14)
L2166661-01C	Vial water preserved	A	NA		3.4	Y	Absent	04-DEC-21 08:02	NYTCL-8260HLW(14)
L2166661-01D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	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),CU-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2166661-01E	Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166661-01F	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166661-01G	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2166661-01H	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166661-02A	Vial MeOH preserved	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2166661-02B	Vial water preserved	A	NA		3.4	Y	Absent	04-DEC-21 08:02	NYTCL-8260HLW(14)
L2166661-02C	Vial water preserved	A	NA		3.4	Y	Absent	04-DEC-21 08:02	NYTCL-8260HLW(14)
L2166661-02D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),SE-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2166661-02E	Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166661-02F	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166661-02G	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2166661-02H	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166661
Report Date: 12/17/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2166661-03A	Vial MeOH preserved	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2166661-03B	Vial water preserved	A	NA		3.4	Y	Absent	04-DEC-21 08:02	NYTCL-8260HLW(14)
L2166661-03C	Vial water preserved	A	NA		3.4	Y	Absent	04-DEC-21 08:02	NYTCL-8260HLW(14)
L2166661-03D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	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),PB-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MG-TI(180),HG-T(28),MN-TI(180),FE-TI(180),NA-TI(180),K-TI(180),CD-TI(180),CA-TI(180)
L2166661-03E	Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166661-03F	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166661-03G	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2166661-03H	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166661-04A	Vial Large Septa unpreserved (4oz)	A	NA		3.4	Y	Absent		TCLP-EXT-ZHE(14)
L2166661-04B	Glass 500ml/16oz unpreserved	A	NA		3.4	Y	Absent		REACTS(14),IGNIT-1030(14),PH-9045(1),REACTCN(14)
L2166661-04T	Amber 1000ml unpreserved Extracts	A	NA		3.4	Y	Absent		TCLP-8270(14),HERB-TCLP*(14),PEST-TCLP*(14)
L2166661-04W	Plastic 120ml HNO3 preserved Extracts	A	NA		3.4	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2166661-04X9	Tumble Vessel	A	NA		3.4	Y	Absent		-
L2166661-04Y	Vial unpreserved Extracts	A	NA		3.4	Y	Absent		TCLP-VOA(14)
L2166661-04Z	Vial unpreserved Extracts	A	NA		3.4	Y	Absent		TCLP-VOA(14)

*Values in parentheses indicate holding time in days

Project Name:	BATTERY PARK	**Lab Number:**	L2166661
Project Number:	20-1152	**Report Date:**	12/17/21

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:	BATTERY PARK	**Lab Number:**	L2166661
Project Number:	20-1152	**Report Date:**	12/17/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. 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.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	BATTERY PARK	**Lab Number:**	L2166661
Project Number:	20-1152	**Report Date:**	12/17/21

Data Qualifiers

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:	BATTERY PARK	**Lab Number:**	L2166661
Project Number:	20-1152	**Report Date:**	12/17/21

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.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

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 of

Date Rec'd in Lab: 12/3/21

ALPHA Job #: L2116161

Client Information
Client: MATRIX
Address: 333 W. 39TH ST. NEW YORK, NY
Phone:
Fax:
Email: bcrespi@mawl.com

Project Information
Project Name: BATTERY PARK
Project Location: MANHATTAN, NY
Project #: 20-1152
(Use Project name as Project #)
Project Manager: BRIAN CRESPI
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

Billing Information
Same as Client Info
PO #

Regulatory Requirement
NY TOGS NY Part 375
AWQ Standards NY CP-51
NY Restricted Use Other
NY Unrestricted Use
NYC Sewer Discharge

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)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOC	TCL SVOC	TCL PCB	TCL PESTICIDES	TAL METALS, Co, Cr 6+	FULL TCLP	RCRA CHARACTERISTICS	Sample Specific Comments
L2116161-01	SB-24 1-4	12/3/21	10:00	S	PY	X	X	X	X	X			
-02	SB-24 10-12	12/3/21	10:30	S	PY	X	X	X	X	X			
-03	SB-23 1-3	12/3/21	12:00	S	PY	X	X	X	X	X			
-04	COMP 03 (24,23)	12/3/21	12:30	S	PY						X	X	

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

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
	12-3-21		12/3/21 13:30
	12/3/21 15:35		12/3/21 16:40
	12/3/21 2220		12/3/21 2235

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)

ANALYTICAL REPORT

Lab Number:	L2166780
Client:	Matrix New World Engineering, Inc. 333 West 39th Street, Second Floor New York City, NY 10018
ATTN:	Brian Crespi
Phone:	(212) 324-4251
Project Name:	BATTERY PARK
Project Number:	20-1152
Report Date:	12/20/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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

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

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166780
Report Date: 12/20/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2166780-01	SB-21 1-3'	SOIL	MANHATTAN, NY	12/06/21 09:00	12/06/21
L2166780-02	SB-21 10-12'	SOIL	MANHATTAN, NY	12/06/21 09:30	12/06/21
L2166780-03	SB-20 1-3'	SOIL	MANHATTAN, NY	12/06/21 11:30	12/06/21
L2166780-04	SB-20 9-11'	SOIL	MANHATTAN, NY	12/06/21 12:00	12/06/21
L2166780-05	COMP #4 (21,20)	SOIL	MANHATTAN, NY	12/06/21 12:30	12/06/21

Project Name:	BATTERY PARK	**Lab Number:**	L2166780
Project Number:	20-1152	**Report Date:**	12/20/21

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:	BATTERY PARK	**Lab Number:**	L2166780
Project Number:	20-1152	**Report Date:**	12/20/21

Case Narrative (continued)

Report Submission

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

Semivolatile Organics

The WG1583270-2/-3 LCS/LCSD recoveries, associated with L2166780-01 through -04, are below the acceptance criteria for 2,4-dinitrophenol (2%/0%), 4,6-dinitro-o-cresol (6%/4%), and benzoic acid (4%/5%); however, they have been identified as "difficult" analytes. The results of the associated samples are reported.

Total Metals

L2166780-01 through -04: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

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:  Cristin Walker

Title: Technical Director/Representative Date: 12/20/21

ORGANICS

VOLATILES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-01
Client ID: SB-21 1-3'
Sample Location: MANHATTAN, NY
Date Collected: 12/06/21 09:00
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/15/21 22:02
Analyst: MV
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.9	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	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	0.59	0.23	1
Chlorobenzene	ND		ug/kg	0.59	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.82	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.59	0.20	1
Bromodichloromethane	ND		ug/kg	0.59	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.59	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.59	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.59	0.19	1
Bromoform	ND		ug/kg	4.7	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.59	0.19	1
Benzene	ND		ug/kg	0.59	0.19	1
Toluene	ND		ug/kg	1.2	0.64	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	4.7	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	0.53	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: BATTERY PARK **Lab Number:** L2166780

Project Number: 20-1152 **Report Date:** 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-01 Date Collected: 12/06/21 09:00

Client ID: SB-21 1-3' Date Received: 12/06/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.59	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
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	0.24	1
p/m-Xylene	ND		ug/kg	2.3	0.66	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.28	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
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.59	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.7	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.7	0.76	1
Acrylonitrile	ND		ug/kg	4.7	1.3	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-01
Client ID: SB-21 1-3'
Sample Location: MANHATTAN, NY
Date Collected: 12/06/21 09:00
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.39	1
1,4-Dioxane	ND		ug/kg	94	41.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.21	1
p-Ethyltoluene	ND		ug/kg	2.3	0.45	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	116		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-02
Client ID: SB-21 10-12'
Sample Location: MANHATTAN, NY

Date Collected: 12/06/21 09:30
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/15/21 22:25
Analyst: MV
Percent Solids: 98%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - 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	0.14	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	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	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
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	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	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.96	1
Bromomethane	ND		ug/kg	2.1	0.60	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

Project Name: BATTERY PARK **Lab Number:** L2166780

Project Number: 20-1152 **Report Date:** 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-02 Date Collected: 12/06/21 09:30

Client ID: SB-21 10-12' Date Received: 12/06/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
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
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.95	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.1	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.1	0.67	1
Acrylonitrile	ND		ug/kg	4.1	1.2	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-02
Client ID: SB-21 10-12'
Sample Location: MANHATTAN, NY
Date Collected: 12/06/21 09:30
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.34	1
1,4-Dioxane	ND		ug/kg	83	36.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.18	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	115		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-03
Client ID: SB-20 1-3'
Sample Location: MANHATTAN, NY
Date Collected: 12/06/21 11:30
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/15/21 22:47
Analyst: MV
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.3	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.2	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.16	1
Dibromochloromethane	ND		ug/kg	1.2	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.34	1
Tetrachloroethene	ND		ug/kg	0.63	0.25	1
Chlorobenzene	ND		ug/kg	0.63	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.88	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.63	0.21	1
Bromodichloromethane	ND		ug/kg	0.63	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.63	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.63	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.63	0.20	1
Bromoform	ND		ug/kg	5.0	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.63	0.21	1
Benzene	ND		ug/kg	0.63	0.21	1
Toluene	ND		ug/kg	1.2	0.68	1
Ethylbenzene	ND		ug/kg	1.2	0.18	1
Chloromethane	ND		ug/kg	5.0	1.2	1
Bromomethane	ND		ug/kg	2.5	0.73	1
Vinyl chloride	ND		ug/kg	1.2	0.42	1
Chloroethane	ND		ug/kg	2.5	0.57	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1

Project Name: BATTERY PARK **Lab Number:** L2166780

Project Number: 20-1152 **Report Date:** 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-03 Date Collected: 12/06/21 11:30

Client ID: SB-20 1-3' Date Received: 12/06/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.63	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.70	1
o-Xylene	ND		ug/kg	1.2	0.37	1
Xylenes, Total	ND		ug/kg	1.2	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.5	0.30	1
Styrene	ND		ug/kg	1.2	0.25	1
Dichlorodifluoromethane	ND		ug/kg	12	1.2	1
Acetone	ND		ug/kg	12	6.0	1
Carbon disulfide	ND		ug/kg	12	5.7	1
2-Butanone	ND		ug/kg	12	2.8	1
Vinyl acetate	ND		ug/kg	12	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	0.16	1
2-Hexanone	ND		ug/kg	12	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.35	1
1,3-Dichloropropane	ND		ug/kg	2.5	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.63	0.17	1
Bromobenzene	ND		ug/kg	2.5	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.21	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.15	1
o-Chlorotoluene	ND		ug/kg	2.5	0.24	1
p-Chlorotoluene	ND		ug/kg	2.5	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.2	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.14	1
Naphthalene	ND		ug/kg	5.0	0.82	1
Acrylonitrile	ND		ug/kg	5.0	1.4	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-03
Client ID: SB-20 1-3'
Sample Location: MANHATTAN, NY
Date Collected: 12/06/21 11:30
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.42	1
1,4-Dioxane	ND		ug/kg	100	44.	1
p-Diethylbenzene	ND		ug/kg	2.5	0.22	1
p-Ethyltoluene	ND		ug/kg	2.5	0.48	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.5	0.24	1
Ethyl ether	ND		ug/kg	2.5	0.43	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.3	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	116		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-04
Client ID: SB-20 9-11'
Sample Location: MANHATTAN, NY

Date Collected: 12/06/21 12:00
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/15/21 23:10
Analyst: MV
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.7	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.20	1
Chloroform	0.68	J	ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.3	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.17	1
Dibromochloromethane	ND		ug/kg	1.3	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.36	1
Tetrachloroethene	ND		ug/kg	0.67	0.26	1
Chlorobenzene	ND		ug/kg	0.67	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.94	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.67	0.22	1
Bromodichloromethane	ND		ug/kg	0.67	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.67	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.67	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.67	0.21	1
Bromoform	ND		ug/kg	5.4	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.67	0.22	1
Benzene	ND		ug/kg	0.67	0.22	1
Toluene	ND		ug/kg	1.3	0.73	1
Ethylbenzene	ND		ug/kg	1.3	0.19	1
Chloromethane	ND		ug/kg	5.4	1.2	1
Bromomethane	ND		ug/kg	2.7	0.78	1
Vinyl chloride	ND		ug/kg	1.3	0.45	1
Chloroethane	ND		ug/kg	2.7	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: BATTERY PARK **Lab Number:** L2166780

Project Number: 20-1152 **Report Date:** 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-04 Date Collected: 12/06/21 12:00

Client ID: SB-20 9-11' Date Received: 12/06/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.67	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.76	1
o-Xylene	ND		ug/kg	1.3	0.39	1
Xylenes, Total	ND		ug/kg	1.3	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.24	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.7	0.32	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.5	1
Carbon disulfide	ND		ug/kg	13	6.1	1
2-Butanone	ND		ug/kg	13	3.0	1
Vinyl acetate	ND		ug/kg	13	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.7	0.17	1
2-Hexanone	ND		ug/kg	13	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
2,2-Dichloropropane	ND		ug/kg	2.7	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.38	1
1,3-Dichloropropane	ND		ug/kg	2.7	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.67	0.18	1
Bromobenzene	ND		ug/kg	2.7	0.20	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.20	1
tert-Butylbenzene	ND		ug/kg	2.7	0.16	1
o-Chlorotoluene	ND		ug/kg	2.7	0.26	1
p-Chlorotoluene	ND		ug/kg	2.7	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.23	1
Isopropylbenzene	ND		ug/kg	1.3	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.15	1
Naphthalene	ND		ug/kg	5.4	0.88	1
Acrylonitrile	ND		ug/kg	5.4	1.6	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-04
Client ID: SB-20 9-11'
Sample Location: MANHATTAN, NY
Date Collected: 12/06/21 12:00
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.43	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.37	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.45	1
1,4-Dioxane	ND		ug/kg	110	47.	1
p-Diethylbenzene	ND		ug/kg	2.7	0.24	1
p-Ethyltoluene	ND		ug/kg	2.7	0.52	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.7	0.26	1
Ethyl ether	ND		ug/kg	2.7	0.46	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.7	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	114		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-05
Client ID: COMP #4 (21,20)
Sample Location: MANHATTAN, NY
Date Collected: 12/06/21 12:30
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/09/21 12:36
Analyst: MM

TCLP/SPLP Ext. Date: 12/07/21 12:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
dibromofluoromethane	102		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/09/21 04:49
Analyst: MM
TCLP/SPLP Extraction Date: 12/07/21 12:10

Extraction Date: 12/07/21 12:10

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 05 Batch: WG1581465-5					
Chloroform	ND		ug/l	7.5	2.2
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
dibromofluoromethane	97		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/15/21 19:01
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04 Batch: WG1584016-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/15/21 19:01
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04 Batch: WG1584016-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/15/21 19:01
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04 Batch: WG1584016-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	108		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166780
Report Date: 12/20/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 05 Batch: WG1581465-3 WG1581465-4								
Chloroform	100		110		70-130	10		20
Carbon tetrachloride	110		110		63-132	0		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	110		110		75-130	0		25
1,2-Dichloroethane	100		100		70-130	0		20
Benzene	110		110		70-130	0		25
Vinyl chloride	100		120		55-140	18		20
1,1-Dichloroethene	110		110		61-145	0		25
Trichloroethene	110		110		70-130	0		25
1,4-Dichlorobenzene	110		110		70-130	0		20
2-Butanone	93		93		63-138	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		96		70-130
Toluene-d8	99		101		70-130
4-Bromofluorobenzene	98		100		70-130
dibromofluoromethane	101		101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166780

Report Date: 12/20/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1584016-3 WG1584016-4								
Methylene chloride	104		105		70-130	1		30
1,1-Dichloroethane	97		99		70-130	2		30
Chloroform	99		100		70-130	1		30
Carbon tetrachloride	109		113		70-130	4		30
1,2-Dichloropropane	98		100		70-130	2		30
Dibromochloromethane	94		96		70-130	2		30
1,1,2-Trichloroethane	99		99		70-130	0		30
Tetrachloroethene	95		95		70-130	0		30
Chlorobenzene	93		94		70-130	1		30
Trichlorofluoromethane	116		118		70-139	2		30
1,2-Dichloroethane	98		100		70-130	2		30
1,1,1-Trichloroethane	99		100		70-130	1		30
Bromodichloromethane	101		104		70-130	3		30
trans-1,3-Dichloropropene	87		87		70-130	0		30
cis-1,3-Dichloropropene	101		101		70-130	0		30
1,1-Dichloropropene	91		91		70-130	0		30
Bromoform	96		96		70-130	0		30
1,1,2,2-Tetrachloroethane	97		97		70-130	0		30
Benzene	96		95		70-130	1		30
Toluene	92		92		70-130	0		30
Ethylbenzene	94		94		70-130	0		30
Chloromethane	104		104		52-130	0		30
Bromomethane	120		123		57-147	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166780

Report Date: 12/20/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1584016-3 WG1584016-4								
Vinyl chloride	111		110		67-130	1		30
Chloroethane	115		115		50-151	0		30
1,1-Dichloroethene	100		102		65-135	2		30
trans-1,2-Dichloroethene	97		99		70-130	2		30
Trichloroethene	95		96		70-130	1		30
1,2-Dichlorobenzene	96		96		70-130	0		30
1,3-Dichlorobenzene	97		96		70-130	1		30
1,4-Dichlorobenzene	96		97		70-130	1		30
Methyl tert butyl ether	100		100		66-130	0		30
p/m-Xylene	98		96		70-130	2		30
o-Xylene	100		98		70-130	2		30
cis-1,2-Dichloroethene	98		99		70-130	1		30
Dibromomethane	98		99		70-130	1		30
Styrene	104		103		70-130	1		30
Dichlorodifluoromethane	118		118		30-146	0		30
Acetone	69		67		54-140	3		30
Carbon disulfide	97		99		59-130	2		30
2-Butanone	74		74		70-130	0		30
Vinyl acetate	103		102		70-130	1		30
4-Methyl-2-pentanone	92		90		70-130	2		30
1,2,3-Trichloropropane	94		93		68-130	1		30
2-Hexanone	85		87		70-130	2		30
Bromochloromethane	100		103		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166780

Report Date: 12/20/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1584016-3 WG1584016-4								
2,2-Dichloropropane	97		98		70-130	1		30
1,2-Dibromoethane	102		101		70-130	1		30
1,3-Dichloropropane	98		98		69-130	0		30
1,1,1,2-Tetrachloroethane	89		87		70-130	2		30
Bromobenzene	94		95		70-130	1		30
n-Butylbenzene	96		97		70-130	1		30
sec-Butylbenzene	95		94		70-130	1		30
tert-Butylbenzene	94		93		70-130	1		30
o-Chlorotoluene	99		93		70-130	6		30
p-Chlorotoluene	96		95		70-130	1		30
1,2-Dibromo-3-chloropropane	79		84		68-130	6		30
Hexachlorobutadiene	91		92		67-130	1		30
Isopropylbenzene	93		93		70-130	0		30
p-Isopropyltoluene	95		95		70-130	0		30
Naphthalene	89		94		70-130	5		30
Acrylonitrile	93		93		70-130	0		30
n-Propylbenzene	95		94		70-130	1		30
1,2,3-Trichlorobenzene	93		96		70-130	3		30
1,2,4-Trichlorobenzene	96		99		70-130	3		30
1,3,5-Trimethylbenzene	95		94		70-130	1		30
1,2,4-Trimethylbenzene	94		94		70-130	0		30
1,4-Dioxane	84		84		65-136	0		30
p-Diethylbenzene	93		93		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166780

Report Date: 12/20/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1584016-3 WG1584016-4								
p-Ethyltoluene	95		94		70-130	1		30
1,2,4,5-Tetramethylbenzene	91		92		70-130	1		30
Ethyl ether	116		115		67-130	1		30
trans-1,4-Dichloro-2-butene	96		96		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		108		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	96		97		70-130
Dibromofluoromethane	104		108		70-130

SEMIVOLATILES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-01
Client ID: SB-21 1-3'
Sample Location: MANHATTAN, NY

Date Collected: 12/06/21 09:00
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/15/21 18:14
Analyst: IM
Percent Solids: 97%

Extraction Method: EPA 3546
Extraction Date: 12/14/21 21:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	17.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	30.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	29.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	260		ug/kg	100	19.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	480	150	1
Hexachloroethane	ND		ug/kg	140	27.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	20.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	90	J	ug/kg	170	58.	1
Butyl benzyl phthalate	ND		ug/kg	170	42.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	57.	1

Project Name: BATTERY PARK **Lab Number:** L2166780

Project Number: 20-1152 **Report Date:** 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-01 Date Collected: 12/06/21 09:00

Client ID: SB-21 1-3' Date Received: 12/06/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	35.	1
Benzo(a)anthracene	140		ug/kg	100	19.	1
Benzo(a)pyrene	130	J	ug/kg	140	41.	1
Benzo(b)fluoranthene	180		ug/kg	100	28.	1
Benzo(k)fluoranthene	43	J	ug/kg	100	27.	1
Chrysene	140		ug/kg	100	18.	1
Acenaphthylene	28	J	ug/kg	140	26.	1
Anthracene	39	J	ug/kg	100	33.	1
Benzo(ghi)perylene	93	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	16.	1
Phenanthrene	160		ug/kg	100	20.	1
Dibenzo(a,h)anthracene	23	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	100	J	ug/kg	140	24.	1
Pyrene	240		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	380	39.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	32.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	70.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	360	63.	1
4-Nitrophenol	ND		ug/kg	240	69.	1
2,4-Dinitrophenol	ND		ug/kg	810	79.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	81.	1
Pentachlorophenol	ND		ug/kg	140	37.	1
Phenol	ND		ug/kg	170	25.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-01
Client ID: SB-21 1-3'
Sample Location: MANHATTAN, NY
Date Collected: 12/06/21 09:00
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	32.	1
Benzoic Acid	ND		ug/kg	550	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	19	J	ug/kg	170	16.	1
1,4-Dioxane	ND		ug/kg	25	7.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	70		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-02
Client ID: SB-21 10-12'
Sample Location: MANHATTAN, NY

Date Collected: 12/06/21 09:30
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/15/21 18:36
Analyst: IM
Percent Solids: 98%

Extraction Method: EPA 3546
Extraction Date: 12/14/21 21:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	130	17.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.	1
2-Chloronaphthalene	ND		ug/kg	170	16.	1
1,2-Dichlorobenzene	ND		ug/kg	170	30.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	29.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.	1
2,4-Dinitrotoluene	ND		ug/kg	170	33.	1
2,6-Dinitrotoluene	ND		ug/kg	170	28.	1
Fluoranthene	41	J	ug/kg	100	19.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	25.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	24.	1
Hexachlorocyclopentadiene	ND		ug/kg	480	150	1
Hexachloroethane	ND		ug/kg	130	27.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	20.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	130	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.	1
Butyl benzyl phthalate	ND		ug/kg	170	42.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	57.	1

Project Name: BATTERY PARK **Lab Number:** L2166780

Project Number: 20-1152 **Report Date:** 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-02 Date Collected: 12/06/21 09:30

Client ID: SB-21 10-12' Date Received: 12/06/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	15.	1
Dimethyl phthalate	ND		ug/kg	170	35.	1
Benzo(a)anthracene	27	J	ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	130	41.	1
Benzo(b)fluoranthene	30	J	ug/kg	100	28.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	24	J	ug/kg	100	17.	1
Acenaphthylene	ND		ug/kg	130	26.	1
Anthracene	ND		ug/kg	100	32.	1
Benzo(ghi)perylene	ND		ug/kg	130	20.	1
Fluorene	ND		ug/kg	170	16.	1
Phenanthrene	25	J	ug/kg	100	20.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.	1
Pyrene	40	J	ug/kg	100	16.	1
Biphenyl	ND		ug/kg	380	39.	1
4-Chloroaniline	ND		ug/kg	170	30.	1
2-Nitroaniline	ND		ug/kg	170	32.	1
3-Nitroaniline	ND		ug/kg	170	31.	1
4-Nitroaniline	ND		ug/kg	170	69.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	17.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	55.	1
2-Nitrophenol	ND		ug/kg	360	63.	1
4-Nitrophenol	ND		ug/kg	230	68.	1
2,4-Dinitrophenol	ND		ug/kg	800	78.	1
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.	1
Pentachlorophenol	ND		ug/kg	130	37.	1
Phenol	ND		ug/kg	170	25.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-02
Client ID: SB-21 10-12'
Sample Location: MANHATTAN, NY
Date Collected: 12/06/21 09:30
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	32.	1
Benzoic Acid	ND		ug/kg	540	170	1
Benzyl Alcohol	ND		ug/kg	170	51.	1
Carbazole	ND		ug/kg	170	16.	1
1,4-Dioxane	ND		ug/kg	25	7.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	65		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-03
Client ID: SB-20 1-3'
Sample Location: MANHATTAN, NY

Date Collected: 12/06/21 11:30
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/15/21 18:58
Analyst: IM
Percent Solids: 97%

Extraction Method: EPA 3546
Extraction Date: 12/14/21 21:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	130	17.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	30.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	29.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	19	J	ug/kg	100	19.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	24.	1
Hexachlorocyclopentadiene	ND		ug/kg	480	150	1
Hexachloroethane	ND		ug/kg	130	27.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	20.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	130	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.	1
Butyl benzyl phthalate	ND		ug/kg	170	42.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	57.	1

Project Name: BATTERY PARK **Lab Number:** L2166780

Project Number: 20-1152 **Report Date:** 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-03 Date Collected: 12/06/21 11:30

Client ID: SB-20 1-3' Date Received: 12/06/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	35.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	130	41.	1
Benzo(b)fluoranthene	ND		ug/kg	100	28.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	17.	1
Acenaphthylene	ND		ug/kg	130	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	ND		ug/kg	130	20.	1
Fluorene	ND		ug/kg	170	16.	1
Phenanthrene	ND		ug/kg	100	20.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.	1
Pyrene	17	J	ug/kg	100	17.	1
Biphenyl	ND		ug/kg	380	39.	1
4-Chloroaniline	ND		ug/kg	170	30.	1
2-Nitroaniline	ND		ug/kg	170	32.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	70.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	55.	1
2-Nitrophenol	ND		ug/kg	360	63.	1
4-Nitrophenol	ND		ug/kg	240	68.	1
2,4-Dinitrophenol	ND		ug/kg	810	78.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	81.	1
Pentachlorophenol	ND		ug/kg	130	37.	1
Phenol	ND		ug/kg	170	25.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-03
Client ID: SB-20 1-3'
Sample Location: MANHATTAN, NY
Date Collected: 12/06/21 11:30
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	32.	1
Benzoic Acid	ND		ug/kg	540	170	1
Benzyl Alcohol	ND		ug/kg	170	51.	1
Carbazole	ND		ug/kg	170	16.	1
1,4-Dioxane	ND		ug/kg	25	7.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	92		25-120
Phenol-d6	97		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	76		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-04
Client ID: SB-20 9-11'
Sample Location: MANHATTAN, NY

Date Collected: 12/06/21 12:00
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/15/21 19:20
Analyst: IM
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 12/14/21 21:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	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	67	J	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	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	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

Project Name: BATTERY PARK **Lab Number:** L2166780

Project Number: 20-1152 **Report Date:** 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-04 Date Collected: 12/06/21 12:00

Client ID: SB-20 9-11' Date Received: 12/06/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	40	J	ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	32	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	34	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	62	J	ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	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	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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-04
Client ID: SB-20 9-11'
Sample Location: MANHATTAN, NY
Date Collected: 12/06/21 12:00
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	92		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	67		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-05
Client ID: COMP #4 (21,20)
Sample Location: MANHATTAN, NY

Date Collected: 12/06/21 12:30
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/11/21 19:50
Analyst: IM

Extraction Method: EPA 3510C
Extraction Date: 12/10/21 15:34

TCLP/SPLP Ext. Date: 12/09/21 06:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	60		15-120
2,4,6-Tribromophenol	67		10-120
4-Terphenyl-d14	61		33-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/11/21 12:01
Analyst: CMM
TCLP/SPLP Extraction Date: 12/09/21 06:22

Extraction Method: EPA 3510C
Extraction Date: 12/10/21 15:34

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 05 Batch: WG1581835-1					
Hexachlorobenzene	ND		ug/l	10	3.4
2,4-Dinitrotoluene	ND		ug/l	25	1.9
Hexachlorobutadiene	ND		ug/l	10	3.0
Hexachloroethane	ND		ug/l	10	2.2
Nitrobenzene	ND		ug/l	10	3.3
2,4,6-Trichlorophenol	ND		ug/l	25	2.5
Pentachlorophenol	ND		ug/l	50	9.8
2-Methylphenol	ND		ug/l	25	5.5
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8
2,4,5-Trichlorophenol	ND		ug/l	25	1.9
Pyridine	ND		ug/l	18	4.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		21-120
Phenol-d6	63		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	85		10-120
4-Terphenyl-d14	82		33-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/15/21 13:25
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 12/14/21 16:57

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1583270-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/15/21 13:25
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 12/14/21 16:57

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1583270-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/15/21 13:25
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 12/14/21 16:57

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1583270-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	87		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	79		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 05 Batch: WG1581835-2 WG1581835-3								
Hexachlorobenzene	62		73		40-140	16		30
2,4-Dinitrotoluene	65		76		40-132	16		30
Hexachlorobutadiene	53		64		28-111	19		30
Hexachloroethane	45		54		21-105	18		30
Nitrobenzene	52		60		40-140	14		30
2,4,6-Trichlorophenol	63		75		30-130	17		30
Pentachlorophenol	54		64		9-103	17		30
2-Methylphenol	50		61		30-130	20		30
3-Methylphenol/4-Methylphenol	54		63		30-130	15		30
2,4,5-Trichlorophenol	61		76		30-130	22		30
Pyridine	13		13		10-66	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	50		59		21-120
Phenol-d6	50		59		10-120
Nitrobenzene-d5	53		61		23-120
2-Fluorobiphenyl	54		63		15-120
2,4,6-Tribromophenol	65		76		10-120
4-Terphenyl-d14	59		70		33-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166780
Report Date: 12/20/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1583270-2 WG1583270-3								
Acenaphthene	81		84		31-137	4		50
1,2,4-Trichlorobenzene	74		76		38-107	3		50
Hexachlorobenzene	84		89		40-140	6		50
Bis(2-chloroethyl)ether	74		73		40-140	1		50
2-Chloronaphthalene	78		79		40-140	1		50
1,2-Dichlorobenzene	73		72		40-140	1		50
1,3-Dichlorobenzene	70		70		40-140	0		50
1,4-Dichlorobenzene	70		69		28-104	1		50
3,3'-Dichlorobenzidine	67		72		40-140	7		50
2,4-Dinitrotoluene	65		64		40-132	2		50
2,6-Dinitrotoluene	71		69		40-140	3		50
Fluoranthene	78		84		40-140	7		50
4-Chlorophenyl phenyl ether	80		82		40-140	2		50
4-Bromophenyl phenyl ether	86		91		40-140	6		50
Bis(2-chloroisopropyl)ether	80		80		40-140	0		50
Bis(2-chloroethoxy)methane	79		80		40-117	1		50
Hexachlorobutadiene	82		82		40-140	0		50
Hexachlorocyclopentadiene	**21**	Q	**18**	Q	40-140	15		50
Hexachloroethane	62		60		40-140	3		50
Isophorone	82		84		40-140	2		50
Naphthalene	74		74		40-140	0		50
Nitrobenzene	79		80		40-140	1		50
NDPA/DPA	81		84		36-157	4		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166780

Report Date: 12/20/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1583270-2 WG1583270-3								
n-Nitrosodi-n-propylamine	85		87		32-121	2		50
Bis(2-ethylhexyl)phthalate	79		82		40-140	4		50
Butyl benzyl phthalate	79		82		40-140	4		50
Di-n-butylphthalate	78		82		40-140	5		50
Di-n-octylphthalate	78		82		40-140	5		50
Diethyl phthalate	78		82		40-140	5		50
Dimethyl phthalate	78		81		40-140	4		50
Benzo(a)anthracene	77		80		40-140	4		50
Benzo(a)pyrene	72		75		40-140	4		50
Benzo(b)fluoranthene	79		83		40-140	5		50
Benzo(k)fluoranthene	78		80		40-140	3		50
Chrysene	75		79		40-140	5		50
Acenaphthylene	76		78		40-140	3		50
Anthracene	76		81		40-140	6		50
Benzo(ghi)perylene	79		81		40-140	3		50
Fluorene	81		83		40-140	2		50
Phenanthrene	75		78		40-140	4		50
Dibenzo(a,h)anthracene	79		81		40-140	3		50
Indeno(1,2,3-cd)pyrene	81		83		40-140	2		50
Pyrene	78		82		35-142	5		50
Biphenyl	86		88		37-127	2		50
4-Chloroaniline	70		77		40-140	10		50
2-Nitroaniline	86		86		47-134	0		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166780
Report Date: 12/20/21

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1583270-2 WG1583270-3

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
3-Nitroaniline	82		85		26-129	4		50
4-Nitroaniline	84		88		41-125	5		50
Dibenzofuran	78		81		40-140	4		50
2-Methylnaphthalene	81		83		40-140	2		50
1,2,4,5-Tetrachlorobenzene	87		89		40-117	2		50
Acetophenone	83		84		14-144	1		50
2,4,6-Trichlorophenol	83		84		30-130	1		50
p-Chloro-m-cresol	90		94		26-103	4		50
2-Chlorophenol	77		77		25-102	0		50
2,4-Dichlorophenol	80		83		30-130	4		50
2,4-Dimethylphenol	84		89		30-130	6		50
2-Nitrophenol	52		50		30-130	4		50
4-Nitrophenol	81		81		11-114	0		50
2,4-Dinitrophenol	**2**	Q	**0**	Q	4-130	NC		50
4,6-Dinitro-o-cresol	**6**	Q	**4**	Q	10-130	30		50
Pentachlorophenol	79		80		17-109	1		50
Phenol	75		75		26-90	0		50
2-Methylphenol	79		81		30-130.	3		50
3-Methylphenol/4-Methylphenol	84		86		30-130	2		50
2,4,5-Trichlorophenol	84		86		30-130	2		50
Benzoic Acid	**4**	Q	**5**	Q	10-110	27		50
Benzyl Alcohol	87		89		40-140	2		50
Carbazole	77		80		54-128	4		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166780

Report Date: 12/20/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1583270-2 WG1583270-3								
1,4-Dioxane	55		54		40-140	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	73		73		25-120
Phenol-d6	84		85		10-120
Nitrobenzene-d5	80		81		23-120
2-Fluorobiphenyl	74		77		30-120
2,4,6-Tribromophenol	81		85		10-136
4-Terphenyl-d14	76		79		18-120

PCBS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-01
Client ID: SB-21 1-3'
Sample Location: MANHATTAN, NY

Date Collected: 12/06/21 09:00
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/15/21 22:30
Analyst: JAW
Percent Solids: 97%

Extraction Method: EPA 3546
Extraction Date: 12/14/21 20:49
Cleanup Method: EPA 3665A
Cleanup Date: 12/15/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/15/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.5	2.98	1	A
Aroclor 1221	ND		ug/kg	33.5	3.36	1	A
Aroclor 1232	ND		ug/kg	33.5	7.10	1	A
Aroclor 1242	ND		ug/kg	33.5	4.52	1	A
Aroclor 1248	ND		ug/kg	33.5	5.02	1	A
Aroclor 1254	ND		ug/kg	33.5	3.66	1	A
Aroclor 1260	17.7	J	ug/kg	33.5	6.19	1	B
Aroclor 1262	ND		ug/kg	33.5	4.26	1	A
Aroclor 1268	ND		ug/kg	33.5	3.47	1	A
PCBs, Total	17.7	J	ug/kg	33.5	2.98	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-02
Client ID: SB-21 10-12'
Sample Location: MANHATTAN, NY

Date Collected: 12/06/21 09:30
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/15/21 22:37
Analyst: JAW
Percent Solids: 98%

Extraction Method: EPA 3546
Extraction Date: 12/14/21 20:49
Cleanup Method: EPA 3665A
Cleanup Date: 12/15/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/15/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	32.4	2.88	1	A
Aroclor 1221	ND		ug/kg	32.4	3.25	1	A
Aroclor 1232	ND		ug/kg	32.4	6.87	1	A
Aroclor 1242	ND		ug/kg	32.4	4.37	1	A
Aroclor 1248	ND		ug/kg	32.4	4.86	1	A
Aroclor 1254	ND		ug/kg	32.4	3.55	1	A
Aroclor 1260	ND		ug/kg	32.4	5.99	1	A
Aroclor 1262	ND		ug/kg	32.4	4.12	1	A
Aroclor 1268	ND		ug/kg	32.4	3.36	1	A
PCBs, Total	ND		ug/kg	32.4	2.88	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-03
Client ID: SB-20 1-3'
Sample Location: MANHATTAN, NY

Date Collected: 12/06/21 11:30
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/15/21 22:44
Analyst: JAW
Percent Solids: 97%

Extraction Method: EPA 3546
Extraction Date: 12/14/21 20:49
Cleanup Method: EPA 3665A
Cleanup Date: 12/15/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/15/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	32.9	2.92	1	A
Aroclor 1221	ND		ug/kg	32.9	3.29	1	A
Aroclor 1232	ND		ug/kg	32.9	6.97	1	A
Aroclor 1242	ND		ug/kg	32.9	4.43	1	A
Aroclor 1248	ND		ug/kg	32.9	4.93	1	A
Aroclor 1254	ND		ug/kg	32.9	3.60	1	A
Aroclor 1260	ND		ug/kg	32.9	6.08	1	A
Aroclor 1262	ND		ug/kg	32.9	4.18	1	A
Aroclor 1268	ND		ug/kg	32.9	3.41	1	A
PCBs, Total	ND		ug/kg	32.9	2.92	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	92		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-04
Client ID: SB-20 9-11'
Sample Location: MANHATTAN, NY

Date Collected: 12/06/21 12:00
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/15/21 22:51
Analyst: JAW
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 12/14/21 20:49
Cleanup Method: EPA 3665A
Cleanup Date: 12/15/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/15/21

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	ND		ug/kg	38.0	4.16	1	A
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	ND		ug/kg	38.0	3.38	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 12/14/21 09:46
Analyst: CW

Extraction Method: EPA 3546
Extraction Date: 12/13/21 21:19
Cleanup Method: EPA 3665A
Cleanup Date: 12/14/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-04 Batch: WG1582763-1						
Aroclor 1016	ND		ug/kg	32.4	2.88	A
Aroclor 1221	ND		ug/kg	32.4	3.24	A
Aroclor 1232	ND		ug/kg	32.4	6.86	A
Aroclor 1242	ND		ug/kg	32.4	4.36	A
Aroclor 1248	ND		ug/kg	32.4	4.86	A
Aroclor 1254	ND		ug/kg	32.4	3.54	A
Aroclor 1260	ND		ug/kg	32.4	5.98	A
Aroclor 1262	ND		ug/kg	32.4	4.11	A
Aroclor 1268	ND		ug/kg	32.4	3.35	A
PCBs, Total	ND		ug/kg	32.4	2.88	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	64		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166780

Report Date: 12/20/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1582763-2 WG1582763-3									
Aroclor 1016	66		67		40-140	2		50	A
Aroclor 1260	61		62		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		74		30-150	A
Decachlorobiphenyl	65		66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		77		30-150	B
Decachlorobiphenyl	66		69		30-150	B

PESTICIDES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-01
Client ID: SB-21 1-3'
Sample Location: MANHATTAN, NY

Date Collected: 12/06/21 09:00
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/15/21 16:43
Analyst: AR
Percent Solids: 97%

Extraction Method: EPA 3546
Extraction Date: 12/14/21 20:12
Cleanup Method: EPA 3620B
Cleanup Date: 12/15/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.61	0.315	1	A
Lindane	ND		ug/kg	0.670	0.300	1	A
Alpha-BHC	ND		ug/kg	0.670	0.190	1	A
Beta-BHC	ND		ug/kg	1.61	0.610	1	A
Heptachlor	ND		ug/kg	0.804	0.360	1	A
Aldrin	ND		ug/kg	1.61	0.566	1	A
Heptachlor epoxide	ND		ug/kg	3.02	0.905	1	A
Endrin	ND		ug/kg	0.670	0.275	1	A
Endrin aldehyde	ND		ug/kg	2.01	0.704	1	A
Endrin ketone	ND		ug/kg	1.61	0.414	1	A
Dieldrin	ND		ug/kg	1.00	0.502	1	A
4,4'-DDE	ND		ug/kg	1.61	0.372	1	A
4,4'-DDD	0.645	J	ug/kg	1.61	0.574	1	A
4,4'-DDT	ND	IP	ug/kg	3.02	1.29	1	A
Endosulfan I	ND		ug/kg	1.61	0.380	1	A
Endosulfan II	ND		ug/kg	1.61	0.537	1	A
Endosulfan sulfate	ND		ug/kg	0.670	0.319	1	A
Methoxychlor	ND		ug/kg	3.02	0.938	1	A
Toxaphene	ND		ug/kg	30.2	8.44	1	A
cis-Chlordane	ND		ug/kg	2.01	0.560	1	A
trans-Chlordane	ND		ug/kg	2.01	0.531	1	A
Chlordane	ND		ug/kg	13.4	5.33	1	A

Project Name: BATTERY PARK
Lab Number: L2166780
Project Number: 20-1152
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-01
Client ID: SB-21 1-3'
Sample Location: MANHATTAN, NY
Date Collected: 12/06/21 09:00
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	100		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-02
Client ID: SB-21 10-12'
Sample Location: MANHATTAN, NY

Date Collected: 12/06/21 09:30
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/15/21 16:51
Analyst: EJL
Percent Solids: 98%

Extraction Method: EPA 3546
Extraction Date: 12/14/21 20:12
Cleanup Method: EPA 3620B
Cleanup Date: 12/15/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.58	0.309	1	A
Lindane	ND		ug/kg	0.658	0.294	1	A
Alpha-BHC	ND		ug/kg	0.658	0.187	1	A
Beta-BHC	ND		ug/kg	1.58	0.599	1	A
Heptachlor	ND		ug/kg	0.790	0.354	1	A
Aldrin	ND		ug/kg	1.58	0.556	1	A
Heptachlor epoxide	ND		ug/kg	2.96	0.888	1	A
Endrin	ND		ug/kg	0.658	0.270	1	A
Endrin aldehyde	ND		ug/kg	1.97	0.691	1	A
Endrin ketone	ND		ug/kg	1.58	0.407	1	A
Dieldrin	ND		ug/kg	0.987	0.493	1	A
4,4'-DDE	ND		ug/kg	1.58	0.365	1	A
4,4'-DDD	ND		ug/kg	1.58	0.563	1	A
4,4'-DDT	ND		ug/kg	2.96	1.27	1	A
Endosulfan I	ND		ug/kg	1.58	0.373	1	A
Endosulfan II	ND		ug/kg	1.58	0.528	1	A
Endosulfan sulfate	ND		ug/kg	0.658	0.313	1	A
Methoxychlor	ND		ug/kg	2.96	0.921	1	A
Toxaphene	ND		ug/kg	29.6	8.29	1	A
cis-Chlordane	ND		ug/kg	1.97	0.550	1	A
trans-Chlordane	ND		ug/kg	1.97	0.521	1	A
Chlordane	ND		ug/kg	13.2	5.23	1	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-02
Client ID: SB-21 10-12'
Sample Location: MANHATTAN, NY
Date Collected: 12/06/21 09:30
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		30-150	A
Decachlorobiphenyl	97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-03
Client ID: SB-20 1-3'
Sample Location: MANHATTAN, NY

Date Collected: 12/06/21 11:30
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/15/21 17:04
Analyst: EJL
Percent Solids: 97%

Extraction Method: EPA 3546
Extraction Date: 12/14/21 20:12
Cleanup Method: EPA 3620B
Cleanup Date: 12/15/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.59	0.312	1	A
Lindane	ND		ug/kg	0.664	0.297	1	A
Alpha-BHC	ND		ug/kg	0.664	0.189	1	A
Beta-BHC	ND		ug/kg	1.59	0.605	1	A
Heptachlor	ND		ug/kg	0.797	0.357	1	A
Aldrin	ND		ug/kg	1.59	0.561	1	A
Heptachlor epoxide	ND		ug/kg	2.99	0.897	1	A
Endrin	ND		ug/kg	0.664	0.272	1	A
Endrin aldehyde	ND		ug/kg	1.99	0.698	1	A
Endrin ketone	ND		ug/kg	1.59	0.411	1	A
Dieldrin	ND		ug/kg	0.997	0.498	1	A
4,4'-DDE	ND		ug/kg	1.59	0.369	1	A
4,4'-DDD	ND		ug/kg	1.59	0.569	1	A
4,4'-DDT	ND		ug/kg	2.99	1.28	1	A
Endosulfan I	ND		ug/kg	1.59	0.377	1	A
Endosulfan II	ND		ug/kg	1.59	0.533	1	A
Endosulfan sulfate	ND		ug/kg	0.664	0.316	1	A
Methoxychlor	ND		ug/kg	2.99	0.930	1	A
Toxaphene	ND		ug/kg	29.9	8.37	1	A
cis-Chlordane	ND		ug/kg	1.99	0.555	1	A
trans-Chlordane	ND		ug/kg	1.99	0.526	1	A
Chlordane	ND		ug/kg	13.3	5.28	1	A

Project Name: BATTERY PARK
Lab Number: L2166780
Project Number: 20-1152
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-03
Client ID: SB-20 1-3'
Sample Location: MANHATTAN, NY
Date Collected: 12/06/21 11:30
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-04
Client ID: SB-20 9-11'
Sample Location: MANHATTAN, NY

Date Collected: 12/06/21 12:00
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/15/21 17:16
Analyst: EJL
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 12/14/21 20:12
Cleanup Method: EPA 3620B
Cleanup Date: 12/15/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.83	0.359	1	A
Lindane	ND		ug/kg	0.763	0.341	1	A
Alpha-BHC	ND		ug/kg	0.763	0.217	1	A
Beta-BHC	ND		ug/kg	1.83	0.694	1	A
Heptachlor	ND		ug/kg	0.916	0.411	1	A
Aldrin	ND		ug/kg	1.83	0.645	1	A
Heptachlor epoxide	ND		ug/kg	3.43	1.03	1	A
Endrin	ND		ug/kg	0.763	0.313	1	A
Endrin aldehyde	ND		ug/kg	2.29	0.801	1	A
Endrin ketone	ND		ug/kg	1.83	0.472	1	A
Dieldrin	ND		ug/kg	1.14	0.572	1	A
4,4'-DDE	0.450	J	ug/kg	1.83	0.424	1	A
4,4'-DDD	ND		ug/kg	1.83	0.653	1	A
4,4'-DDT	ND		ug/kg	3.43	1.47	1	B
Endosulfan I	ND		ug/kg	1.83	0.433	1	A
Endosulfan II	ND		ug/kg	1.83	0.612	1	A
Endosulfan sulfate	ND		ug/kg	0.763	0.363	1	A
Methoxychlor	ND		ug/kg	3.43	1.07	1	A
Toxaphene	ND		ug/kg	34.3	9.62	1	A
cis-Chlordane	ND		ug/kg	2.29	0.638	1	A
trans-Chlordane	ND		ug/kg	2.29	0.604	1	A
Chlordane	ND		ug/kg	15.3	6.07	1	A

Project Name: BATTERY PARK
Lab Number: L2166780
Project Number: 20-1152
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-04
Client ID: SB-20 9-11'
Sample Location: MANHATTAN, NY
Date Collected: 12/06/21 12:00
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-05
Client ID: COMP #4 (21,20)
Sample Location: MANHATTAN, NY

Date Collected: 12/06/21 12:30
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/11/21 13:03
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 12/10/21 13:18

TCLP/SPLP Ext. Date: 12/09/21 06:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Pesticides by EPA 1311 - Westborough Lab							
Lindane	ND		ug/l	0.100	0.022	1	A
Heptachlor	ND		ug/l	0.100	0.016	1	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	1	A
Endrin	ND		ug/l	0.200	0.021	1	A
Methoxychlor	ND		ug/l	1.00	0.034	1	A
Toxaphene	ND		ug/l	1.00	0.314	1	A
Chlordane	ND		ug/l	1.00	0.232	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	115		30-150	A
Decachlorobiphenyl	102		30-150	A
2,4,5,6-Tetrachloro-m-xylene	103		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-05
Client ID: COMP #4 (21,20)
Sample Location: MANHATTAN, NY

Date Collected: 12/06/21 12:30
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/14/21 15:02
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 12/11/21 00:05

TCLP/SPLP Ext. Date: 12/09/21 06:22
Methylation Date: 12/12/21 03:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Herbicides by EPA 1311 - Westborough Lab							
2,4-D	ND		mg/l	0.025	0.001	1	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	71		30-150	A
DCAA	66		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/11/21 10:59
Analyst: EJL
TCLP/SPLP Extraction Date: 12/09/21 06:22

Extraction Method: EPA 3510C
Extraction Date: 12/10/21 13:18

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Pesticides by EPA 1311 - Westborough Lab for sample(s): 05 Batch: WG1581763-1						
Lindane	ND		ug/l	0.100	0.022	A
Heptachlor	ND		ug/l	0.100	0.016	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	A
Endrin	ND		ug/l	0.200	0.021	A
Methoxychlor	ND		ug/l	1.00	0.034	A
Toxaphene	ND		ug/l	1.00	0.314	A
Chlordane	ND		ug/l	1.00	0.232	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 12/13/21 18:41
Analyst: EJL
TCLP/SPLP Extraction Date: 12/09/21 06:22
Methylation Date: 12/12/21 03:00

Extraction Method: EPA 8151A
Extraction Date: 12/11/21 00:05

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Herbicides by EPA 1311 - Westborough Lab for sample(s): 05 Batch: WG1581922-1						
2,4-D	ND		mg/l	0.025	0.001	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	75		30-150	A
DCAA	62		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/15/21 15:27
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 12/14/21 17:51
Cleanup Method: EPA 3620B
Cleanup Date: 12/15/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-04 Batch: WG1583280-1						
Delta-BHC	ND		ug/kg	1.55	0.304	A
Lindane	ND		ug/kg	0.646	0.289	A
Alpha-BHC	ND		ug/kg	0.646	0.183	A
Beta-BHC	ND		ug/kg	1.55	0.588	A
Heptachlor	ND		ug/kg	0.775	0.348	A
Aldrin	ND		ug/kg	1.55	0.546	A
Heptachlor epoxide	ND		ug/kg	2.91	0.872	A
Endrin	ND		ug/kg	0.646	0.265	A
Endrin aldehyde	ND		ug/kg	1.94	0.678	A
Endrin ketone	ND		ug/kg	1.55	0.399	A
Dieldrin	ND		ug/kg	0.969	0.484	A
4,4'-DDE	ND		ug/kg	1.55	0.358	A
4,4'-DDD	ND		ug/kg	1.55	0.553	A
4,4'-DDT	ND		ug/kg	2.91	1.25	A
Endosulfan I	ND		ug/kg	1.55	0.366	A
Endosulfan II	ND		ug/kg	1.55	0.518	A
Endosulfan sulfate	ND		ug/kg	0.646	0.307	A
Methoxychlor	ND		ug/kg	2.91	0.904	A
Toxaphene	ND		ug/kg	29.1	8.14	A
cis-Chlordane	ND		ug/kg	1.94	0.540	A
trans-Chlordane	ND		ug/kg	1.94	0.512	A
Chlordane	ND		ug/kg	12.9	5.14	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/15/21 15:27
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 12/14/21 17:51
Cleanup Method: EPA 3620B
Cleanup Date: 12/15/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-04 Batch: WG1583280-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	99		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Pesticides by EPA 1311 - Westborough Lab Associated sample(s): 05 Batch: WG1581763-2 WG1581763-3									
Lindane	103		109		30-150	6		20	A
Heptachlor	106		116		30-150	9		20	A
Heptachlor epoxide	105		116		30-150	10		20	A
Endrin	106		119		30-150	12		20	A
Methoxychlor	121		137		30-150	12		20	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		99		30-150	A
Decachlorobiphenyl	89		103		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		92		30-150	B
Decachlorobiphenyl	72		82		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166780

Report Date: 12/20/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Herbicides by EPA 1311 - Westborough Lab Associated sample(s): 05 Batch: WG1581922-2 WG1581922-3									
2,4-D	97		105		30-150	8		25	A
2,4,5-TP (Silvex)	58		66		30-150	13		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	70		68		30-150	A
DCAA	72		77		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166780

Report Date: 12/20/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1583280-2 WG1583280-3									
Delta-BHC	37		42		30-150	13		30	A
Lindane	72		82		30-150	13		30	A
Alpha-BHC	66		76		30-150	14		30	A
Beta-BHC	79		81		30-150	3		30	A
Heptachlor	77		88		30-150	13		30	A
Aldrin	70		81		30-150	15		30	A
Heptachlor epoxide	58		66		30-150	13		30	A
Endrin	69		80		30-150	15		30	A
Endrin aldehyde	57		65		30-150	13		30	A
Endrin ketone	77		88		30-150	13		30	A
Dieldrin	72		83		30-150	14		30	A
4,4'-DDE	65		75		30-150	14		30	A
4,4'-DDD	71		83		30-150	16		30	A
4,4'-DDT	72		85		30-150	17		30	A
Endosulfan I	64		74		30-150	14		30	A
Endosulfan II	70		80		30-150	13		30	A
Endosulfan sulfate	56		63		30-150	12		30	A
Methoxychlor	77		88		30-150	13		30	A
cis-Chlordane	58		66		30-150	13		30	A
trans-Chlordane	70		80		30-150	13		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166780

Report Date: 12/20/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1583280-2 WG1583280-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		79		30-150	A
Decachlorobiphenyl	95		114		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		90		30-150	B
Decachlorobiphenyl	105		124		30-150	B

METALS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-01
Client ID: SB-21 1-3'
Sample Location: MANHATTAN, NY
Date Collected: 12/06/21 09:00
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1360		mg/kg	7.85	2.12	2	12/16/21 06:45	12/17/21 21:14	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	3.93	0.298	2	12/16/21 06:45	12/17/21 21:14	EPA 3050B	1,6010D	EW
Arsenic, Total	1.49		mg/kg	0.785	0.163	2	12/16/21 06:45	12/17/21 21:14	EPA 3050B	1,6010D	EW
Barium, Total	13.2		mg/kg	0.785	0.137	2	12/16/21 06:45	12/17/21 21:14	EPA 3050B	1,6010D	EW
Beryllium, Total	0.055	J	mg/kg	0.393	0.026	2	12/16/21 06:45	12/17/21 21:14	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.785	0.077	2	12/16/21 06:45	12/17/21 21:14	EPA 3050B	1,6010D	EW
Calcium, Total	1260		mg/kg	7.85	2.75	2	12/16/21 06:45	12/17/21 21:14	EPA 3050B	1,6010D	EW
Chromium, Total	4.64		mg/kg	0.785	0.075	2	12/16/21 06:45	12/17/21 21:14	EPA 3050B	1,6010D	EW
Cobalt, Total	1.89		mg/kg	1.57	0.130	2	12/16/21 06:45	12/17/21 21:14	EPA 3050B	1,6010D	EW
Copper, Total	3.71		mg/kg	0.785	0.203	2	12/16/21 06:45	12/17/21 21:14	EPA 3050B	1,6010D	EW
Iron, Total	3210		mg/kg	3.93	0.709	2	12/16/21 06:45	12/17/21 21:14	EPA 3050B	1,6010D	EW
Lead, Total	11.0		mg/kg	3.93	0.210	2	12/16/21 06:45	12/17/21 21:14	EPA 3050B	1,6010D	EW
Magnesium, Total	862		mg/kg	7.85	1.21	2	12/16/21 06:45	12/17/21 21:14	EPA 3050B	1,6010D	EW
Manganese, Total	63.0		mg/kg	0.785	0.125	2	12/16/21 06:45	12/17/21 21:14	EPA 3050B	1,6010D	EW
Mercury, Total	0.055	J	mg/kg	0.066	0.043	1	12/16/21 08:40	12/17/21 10:31	EPA 7471B	1,7471B	AC
Nickel, Total	5.54		mg/kg	1.96	0.190	2	12/16/21 06:45	12/17/21 21:14	EPA 3050B	1,6010D	EW
Potassium, Total	338		mg/kg	196	11.3	2	12/16/21 06:45	12/17/21 21:14	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.57	0.203	2	12/16/21 06:45	12/17/21 21:14	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.785	0.222	2	12/16/21 06:45	12/17/21 21:14	EPA 3050B	1,6010D	EW
Sodium, Total	42.2	J	mg/kg	157	2.47	2	12/16/21 06:45	12/17/21 21:14	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.57	0.247	2	12/16/21 06:45	12/17/21 21:14	EPA 3050B	1,6010D	EW
Vanadium, Total	4.15		mg/kg	0.785	0.159	2	12/16/21 06:45	12/17/21 21:14	EPA 3050B	1,6010D	EW
Zinc, Total	19.3		mg/kg	3.93	0.230	2	12/16/21 06:45	12/17/21 21:14	EPA 3050B	1,6010D	EW

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-02
Client ID: SB-21 10-12'
Sample Location: MANHATTAN, NY
Date Collected: 12/06/21 09:30
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 98%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1160		mg/kg	7.93	2.14	2	12/16/21 06:45	12/17/21 21:19	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	3.96	0.301	2	12/16/21 06:45	12/17/21 21:19	EPA 3050B	1,6010D	EW
Arsenic, Total	1.27		mg/kg	0.793	0.165	2	12/16/21 06:45	12/17/21 21:19	EPA 3050B	1,6010D	EW
Barium, Total	8.04		mg/kg	0.793	0.138	2	12/16/21 06:45	12/17/21 21:19	EPA 3050B	1,6010D	EW
Beryllium, Total	0.040	J	mg/kg	0.396	0.026	2	12/16/21 06:45	12/17/21 21:19	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.793	0.078	2	12/16/21 06:45	12/17/21 21:19	EPA 3050B	1,6010D	EW
Calcium, Total	339		mg/kg	7.93	2.77	2	12/16/21 06:45	12/17/21 21:19	EPA 3050B	1,6010D	EW
Chromium, Total	3.56		mg/kg	0.793	0.076	2	12/16/21 06:45	12/17/21 21:19	EPA 3050B	1,6010D	EW
Cobalt, Total	1.63		mg/kg	1.58	0.132	2	12/16/21 06:45	12/17/21 21:19	EPA 3050B	1,6010D	EW
Copper, Total	4.18		mg/kg	0.793	0.204	2	12/16/21 06:45	12/17/21 21:19	EPA 3050B	1,6010D	EW
Iron, Total	2930		mg/kg	3.96	0.716	2	12/16/21 06:45	12/17/21 21:19	EPA 3050B	1,6010D	EW
Lead, Total	9.20		mg/kg	3.96	0.212	2	12/16/21 06:45	12/17/21 21:19	EPA 3050B	1,6010D	EW
Magnesium, Total	631		mg/kg	7.93	1.22	2	12/16/21 06:45	12/17/21 21:19	EPA 3050B	1,6010D	EW
Manganese, Total	43.0		mg/kg	0.793	0.126	2	12/16/21 06:45	12/17/21 21:19	EPA 3050B	1,6010D	EW
Mercury, Total	0.058	J	mg/kg	0.064	0.042	1	12/16/21 08:40	12/17/21 10:35	EPA 7471B	1,7471B	AC
Nickel, Total	4.13		mg/kg	1.98	0.192	2	12/16/21 06:45	12/17/21 21:19	EPA 3050B	1,6010D	EW
Potassium, Total	358		mg/kg	198	11.4	2	12/16/21 06:45	12/17/21 21:19	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.58	0.204	2	12/16/21 06:45	12/17/21 21:19	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.793	0.224	2	12/16/21 06:45	12/17/21 21:19	EPA 3050B	1,6010D	EW
Sodium, Total	26.3	J	mg/kg	158	2.50	2	12/16/21 06:45	12/17/21 21:19	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.58	0.250	2	12/16/21 06:45	12/17/21 21:19	EPA 3050B	1,6010D	EW
Vanadium, Total	4.23		mg/kg	0.793	0.161	2	12/16/21 06:45	12/17/21 21:19	EPA 3050B	1,6010D	EW
Zinc, Total	9.89		mg/kg	3.96	0.232	2	12/16/21 06:45	12/17/21 21:19	EPA 3050B	1,6010D	EW

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-03
Client ID: SB-20 1-3'
Sample Location: MANHATTAN, NY
Date Collected: 12/06/21 11:30
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	996		mg/kg	7.87	2.12	2	12/16/21 06:45	12/17/21 21:24	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	3.93	0.299	2	12/16/21 06:45	12/17/21 21:24	EPA 3050B	1,6010D	EW
Arsenic, Total	1.51		mg/kg	0.787	0.164	2	12/16/21 06:45	12/17/21 21:24	EPA 3050B	1,6010D	EW
Barium, Total	2.61		mg/kg	0.787	0.137	2	12/16/21 06:45	12/17/21 21:24	EPA 3050B	1,6010D	EW
Beryllium, Total	0.047	J	mg/kg	0.393	0.026	2	12/16/21 06:45	12/17/21 21:24	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.787	0.077	2	12/16/21 06:45	12/17/21 21:24	EPA 3050B	1,6010D	EW
Calcium, Total	313		mg/kg	7.87	2.75	2	12/16/21 06:45	12/17/21 21:24	EPA 3050B	1,6010D	EW
Chromium, Total	2.92		mg/kg	0.787	0.076	2	12/16/21 06:45	12/17/21 21:24	EPA 3050B	1,6010D	EW
Cobalt, Total	1.53	J	mg/kg	1.57	0.131	2	12/16/21 06:45	12/17/21 21:24	EPA 3050B	1,6010D	EW
Copper, Total	1.20		mg/kg	0.787	0.203	2	12/16/21 06:45	12/17/21 21:24	EPA 3050B	1,6010D	EW
Iron, Total	2660		mg/kg	3.93	0.710	2	12/16/21 06:45	12/17/21 21:24	EPA 3050B	1,6010D	EW
Lead, Total	3.15	J	mg/kg	3.93	0.211	2	12/16/21 06:45	12/17/21 21:24	EPA 3050B	1,6010D	EW
Magnesium, Total	539		mg/kg	7.87	1.21	2	12/16/21 06:45	12/17/21 21:24	EPA 3050B	1,6010D	EW
Manganese, Total	52.7		mg/kg	0.787	0.125	2	12/16/21 06:45	12/17/21 21:24	EPA 3050B	1,6010D	EW
Mercury, Total	ND		mg/kg	0.065	0.043	1	12/16/21 08:40	12/17/21 10:38	EPA 7471B	1,7471B	AC
Nickel, Total	3.73		mg/kg	1.97	0.190	2	12/16/21 06:45	12/17/21 21:24	EPA 3050B	1,6010D	EW
Potassium, Total	206		mg/kg	197	11.3	2	12/16/21 06:45	12/17/21 21:24	EPA 3050B	1,6010D	EW
Selenium, Total	0.204	J	mg/kg	1.57	0.203	2	12/16/21 06:45	12/17/21 21:24	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.787	0.223	2	12/16/21 06:45	12/17/21 21:24	EPA 3050B	1,6010D	EW
Sodium, Total	58.0	J	mg/kg	157	2.48	2	12/16/21 06:45	12/17/21 21:24	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.57	0.248	2	12/16/21 06:45	12/17/21 21:24	EPA 3050B	1,6010D	EW
Vanadium, Total	3.66		mg/kg	0.787	0.160	2	12/16/21 06:45	12/17/21 21:24	EPA 3050B	1,6010D	EW
Zinc, Total	12.5		mg/kg	3.93	0.230	2	12/16/21 06:45	12/17/21 21:24	EPA 3050B	1,6010D	EW

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-04
Client ID: SB-20 9-11'
Sample Location: MANHATTAN, NY
Date Collected: 12/06/21 12:00
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1100		mg/kg	9.20	2.48	2	12/16/21 06:45	12/17/21 21:28	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.60	0.350	2	12/16/21 06:45	12/17/21 21:28	EPA 3050B	1,6010D	EW
Arsenic, Total	1.62		mg/kg	0.920	0.191	2	12/16/21 06:45	12/17/21 21:28	EPA 3050B	1,6010D	EW
Barium, Total	6.15		mg/kg	0.920	0.160	2	12/16/21 06:45	12/17/21 21:28	EPA 3050B	1,6010D	EW
Beryllium, Total	0.055	J	mg/kg	0.460	0.030	2	12/16/21 06:45	12/17/21 21:28	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.920	0.090	2	12/16/21 06:45	12/17/21 21:28	EPA 3050B	1,6010D	EW
Calcium, Total	615		mg/kg	9.20	3.22	2	12/16/21 06:45	12/17/21 21:28	EPA 3050B	1,6010D	EW
Chromium, Total	3.50		mg/kg	0.920	0.088	2	12/16/21 06:45	12/17/21 21:28	EPA 3050B	1,6010D	EW
Cobalt, Total	1.61	J	mg/kg	1.84	0.153	2	12/16/21 06:45	12/17/21 21:28	EPA 3050B	1,6010D	EW
Copper, Total	1.68		mg/kg	0.920	0.237	2	12/16/21 06:45	12/17/21 21:28	EPA 3050B	1,6010D	EW
Iron, Total	2820		mg/kg	4.60	0.831	2	12/16/21 06:45	12/17/21 21:28	EPA 3050B	1,6010D	EW
Lead, Total	3.43	J	mg/kg	4.60	0.247	2	12/16/21 06:45	12/17/21 21:28	EPA 3050B	1,6010D	EW
Magnesium, Total	596		mg/kg	9.20	1.42	2	12/16/21 06:45	12/17/21 21:28	EPA 3050B	1,6010D	EW
Manganese, Total	62.0		mg/kg	0.920	0.146	2	12/16/21 06:45	12/17/21 21:28	EPA 3050B	1,6010D	EW
Mercury, Total	ND		mg/kg	0.075	0.049	1	12/16/21 08:40	12/17/21 10:41	EPA 7471B	1,7471B	AC
Nickel, Total	3.81		mg/kg	2.30	0.223	2	12/16/21 06:45	12/17/21 21:28	EPA 3050B	1,6010D	EW
Potassium, Total	255		mg/kg	230	13.2	2	12/16/21 06:45	12/17/21 21:28	EPA 3050B	1,6010D	EW
Selenium, Total	0.405	J	mg/kg	1.84	0.237	2	12/16/21 06:45	12/17/21 21:28	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.920	0.260	2	12/16/21 06:45	12/17/21 21:28	EPA 3050B	1,6010D	EW
Sodium, Total	49.2	J	mg/kg	184	2.90	2	12/16/21 06:45	12/17/21 21:28	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.84	0.290	2	12/16/21 06:45	12/17/21 21:28	EPA 3050B	1,6010D	EW
Vanadium, Total	3.84		mg/kg	0.920	0.187	2	12/16/21 06:45	12/17/21 21:28	EPA 3050B	1,6010D	EW
Zinc, Total	11.4		mg/kg	4.60	0.270	2	12/16/21 06:45	12/17/21 21:28	EPA 3050B	1,6010D	EW

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-05
Client ID: COMP #4 (21,20)
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil

Date Collected: 12/06/21 12:30
Date Received: 12/06/21
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 12/09/21 06:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	12/10/21 10:22	12/16/21 13:19	EPA 3015	1,6010D	EW
Barium, TCLP	0.185	J	mg/l	0.500	0.021	1	12/10/21 10:22	12/16/21 13:19	EPA 3015	1,6010D	EW
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	12/10/21 10:22	12/16/21 13:19	EPA 3015	1,6010D	EW
Chromium, TCLP	ND		mg/l	0.200	0.021	1	12/10/21 10:22	12/16/21 13:19	EPA 3015	1,6010D	EW
Lead, TCLP	ND		mg/l	0.500	0.027	1	12/10/21 10:22	12/16/21 13:19	EPA 3015	1,6010D	EW
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	12/10/21 10:07	12/10/21 14:35	EPA 7470A	1,7470A	NB
Selenium, TCLP	ND		mg/l	0.500	0.035	1	12/10/21 10:22	12/16/21 13:19	EPA 3015	1,6010D	EW
Silver, TCLP	ND		mg/l	0.100	0.028	1	12/10/21 10:22	12/16/21 13:19	EPA 3015	1,6010D	EW

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 05 Batch: WG1581583-1										
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	12/10/21 10:22	12/16/21 12:10	1,6010D	EW
Barium, TCLP	ND		mg/l	0.500	0.021	1	12/10/21 10:22	12/16/21 12:10	1,6010D	EW
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	12/10/21 10:22	12/16/21 12:10	1,6010D	EW
Chromium, TCLP	ND		mg/l	0.200	0.021	1	12/10/21 10:22	12/16/21 12:10	1,6010D	EW
Lead, TCLP	ND		mg/l	0.500	0.027	1	12/10/21 10:22	12/16/21 12:10	1,6010D	EW
Selenium, TCLP	ND		mg/l	0.500	0.035	1	12/10/21 10:22	12/16/21 12:10	1,6010D	EW
Silver, TCLP	ND		mg/l	0.100	0.028	1	12/10/21 10:22	12/16/21 12:10	1,6010D	EW

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 12/09/21 06:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 05 Batch: WG1581586-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	12/10/21 10:07	12/10/21 13:52	1,7470A	NB

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 12/09/21 06:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1583731-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	12/16/21 06:45	12/17/21 20:13	1,6010D	EW
Antimony, Total	0.160	J	mg/kg	2.00	0.152	1	12/16/21 06:45	12/17/21 20:13	1,6010D	EW
Arsenic, Total	ND		mg/kg	0.400	0.083	1	12/16/21 06:45	12/17/21 20:13	1,6010D	EW
Barium, Total	ND		mg/kg	0.400	0.070	1	12/16/21 06:45	12/17/21 20:13	1,6010D	EW
Beryllium, Total	ND		mg/kg	0.200	0.013	1	12/16/21 06:45	12/17/21 20:13	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.400	0.039	1	12/16/21 06:45	12/17/21 20:13	1,6010D	EW
Calcium, Total	ND		mg/kg	4.00	1.40	1	12/16/21 06:45	12/17/21 20:13	1,6010D	EW
Chromium, Total	ND		mg/kg	0.400	0.038	1	12/16/21 06:45	12/17/21 20:13	1,6010D	EW
Cobalt, Total	ND		mg/kg	0.800	0.066	1	12/16/21 06:45	12/17/21 20:13	1,6010D	EW

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

Method Blank Analysis
Batch Quality Control

Copper, Total	ND		mg/kg	0.400	0.103	1	12/16/21 06:45	12/17/21 20:13	1,6010D	EW
Iron, Total	0.880	J	mg/kg	2.00	0.361	1	12/16/21 06:45	12/17/21 20:13	1,6010D	EW
Lead, Total	ND		mg/kg	2.00	0.107	1	12/16/21 06:45	12/17/21 20:13	1,6010D	EW
Magnesium, Total	ND		mg/kg	4.00	0.616	1	12/16/21 06:45	12/17/21 20:13	1,6010D	EW
Manganese, Total	ND		mg/kg	0.400	0.064	1	12/16/21 06:45	12/17/21 20:13	1,6010D	EW
Nickel, Total	ND		mg/kg	1.00	0.097	1	12/16/21 06:45	12/17/21 20:13	1,6010D	EW
Potassium, Total	ND		mg/kg	100	5.76	1	12/16/21 06:45	12/17/21 20:13	1,6010D	EW
Selenium, Total	ND		mg/kg	0.800	0.103	1	12/16/21 06:45	12/17/21 20:13	1,6010D	EW
Silver, Total	ND		mg/kg	0.400	0.113	1	12/16/21 06:45	12/17/21 20:13	1,6010D	EW
Sodium, Total	4.21	J	mg/kg	80.0	1.26	1	12/16/21 06:45	12/17/21 20:13	1,6010D	EW
Thallium, Total	ND		mg/kg	0.800	0.126	1	12/16/21 06:45	12/17/21 20:13	1,6010D	EW
Vanadium, Total	ND		mg/kg	0.400	0.081	1	12/16/21 06:45	12/17/21 20:13	1,6010D	EW
Zinc, Total	ND		mg/kg	2.00	0.117	1	12/16/21 06:45	12/17/21 20:13	1,6010D	EW

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): 01-04 Batch: WG1583733-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	12/16/21 08:40	12/17/21 09:22	1,7471B	AC

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166780

Report Date: 12/20/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05 Batch: WG1581583-2								
Arsenic, TCLP	103		-		75-125	-		20
Barium, TCLP	101		-		75-125	-		20
Cadmium, TCLP	100		-		75-125	-		20
Chromium, TCLP	98		-		75-125	-		20
Lead, TCLP	96		-		75-125	-		20
Selenium, TCLP	103		-		75-125	-		20
Silver, TCLP	98		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05 Batch: WG1581586-2								
Mercury, TCLP	101		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166780

Report Date: 12/20/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1583731-2 SRM Lot Number: D113-540					
Aluminum, Total	72	-	51-149	-	
Antimony, Total	157	-	20-250	-	
Arsenic, Total	100	-	70-130	-	
Barium, Total	90	-	75-125	-	
Beryllium, Total	88	-	75-125	-	
Cadmium, Total	95	-	75-125	-	
Calcium, Total	84	-	73-128	-	
Chromium, Total	92	-	70-130	-	
Cobalt, Total	96	-	75-125	-	
Copper, Total	88	-	75-125	-	
Iron, Total	91	-	36-164	-	
Lead, Total	91	-	72-128	-	
Magnesium, Total	79	-	63-138	-	
Manganese, Total	82	-	77-123	-	
Nickel, Total	95	-	70-130	-	
Potassium, Total	80	-	59-141	-	
Selenium, Total	99	-	66-134	-	
Silver, Total	94	-	70-131	-	
Sodium, Total	92	-	35-164	-	
Thallium, Total	96	-	70-130	-	
Vanadium, Total	86	-	74-126	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166780

Report Date: 12/20/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1583731-2 SRM Lot Number: D113-540					
Zinc, Total	88	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1583733-2 SRM Lot Number: D113-540					
Mercury, Total	82	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166780
Report Date: 12/20/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1581583-3 QC Sample: L2166465-01 Client ID: MS Sample												
Arsenic, TCLP	ND	1.2	1.21	101		-	-		75-125	-		20
Barium, TCLP	0.228J	20	20.3	102		-	-		75-125	-		20
Cadmium, TCLP	ND	0.53	0.519	98		-	-		75-125	-		20
Chromium, TCLP	ND	2	1.89	94		-	-		75-125	-		20
Lead, TCLP	ND	5.3	5.01	94		-	-		75-125	-		20
Selenium, TCLP	ND	1.2	1.22	102		-	-		75-125	-		20
Silver, TCLP	ND	0.5	0.477	95		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1581586-3 QC Sample: L2166465-01 Client ID: MS Sample												
Mercury, TCLP	ND	0.025	0.0249	99		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166780
Report Date: 12/20/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1583731-3 QC Sample: L2166884-08 Client ID: MS Sample										
Aluminum, Total	2550	193	3150	**310**	Q	-	-	75-125	-	20
Antimony, Total	1.00J	48.3	36.3	75		-	-	75-125	-	20
Arsenic, Total	11.6	11.6	22.2	91		-	-	75-125	-	20
Barium, Total	59.7	193	189	**67**	Q	-	-	75-125	-	20
Beryllium, Total	0.306	4.83	3.33	**62**	Q	-	-	75-125	-	20
Cadmium, Total	0.393J	5.12	3.64	**71**	Q	-	-	75-125	-	20
Calcium, Total	31900	967	13700	**0**	Q	-	-	75-125	-	20
Chromium, Total	6.09	19.3	24.1	93		-	-	75-125	-	20
Cobalt, Total	5.59	48.3	34.7	**60**	Q	-	-	75-125	-	20
Copper, Total	31.4	24.2	61.2	123		-	-	75-125	-	20
Iron, Total	27100	96.7	26300	**0**	Q	-	-	75-125	-	20
Lead, Total	80.3	51.2	86.6	**12**	Q	-	-	75-125	-	20
Magnesium, Total	1880	967	3480	**165**	Q	-	-	75-125	-	20
Manganese, Total	57.4	48.3	74.5	**35**	Q	-	-	75-125	-	20
Nickel, Total	12.1	48.3	44.6	**67**	Q	-	-	75-125	-	20
Potassium, Total	260	967	990	75		-	-	75-125	-	20
Selenium, Total	1.16	11.6	8.96	**67**	Q	-	-	75-125	-	20
Silver, Total	ND	29	25.3	87		-	-	75-125	-	20
Sodium, Total	233	967	1010	80		-	-	75-125	-	20
Thallium, Total	ND	11.6	6.55	**56**	Q	-	-	75-125	-	20
Vanadium, Total	12.4	48.3	44.3	**66**	Q	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166780
Report Date: 12/20/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1583731-3 QC Sample: L2166884-08 Client ID: MS Sample										
Zinc, Total	37.8	48.3	67.2	**61**	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1583733-3 QC Sample: L2166729-01 Client ID: MS Sample										
Mercury, Total	0.053J	0.138	0.190	**138**	Q	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166780
Report Date: 12/20/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1581583-4 QC Sample: L2166465-01 Client ID: DUP Sample						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Barium, TCLP	0.228J	0.232J	mg/l	NC		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	ND	ND	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1581586-4 QC Sample: L2166465-01 Client ID: DUP Sample						
Mercury, TCLP	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1583731-4 QC Sample: L2166884-08 Client ID: DUP Sample						
Arsenic, Total	11.6	13.0	mg/kg	11		20
Barium, Total	59.7	51.7	mg/kg	14		20
Cadmium, Total	0.393J	0.423J	mg/kg	NC		20
Chromium, Total	6.09	14.8	mg/kg	**83**	Q	20
Lead, Total	80.3	72.2	mg/kg	11		20
Selenium, Total	1.16	0.986	mg/kg	16		20
Silver, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1583733-4 QC Sample: L2166729-01 Client ID: DUP Sample						
Mercury, Total	0.053J	0.064J	mg/kg	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-05
Client ID: COMP #4 (21,20)
Sample Location: MANHATTAN, NY

Date Collected: 12/06/21 12:30
Date Received: 12/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Sand
Particle Size:	Fine
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	12/17/21 07:50	1,1030	IS

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-01
Client ID: SB-21 1-3'
Sample Location: MANHATTAN, NY

Date Collected: 12/06/21 09:00
Date Received: 12/06/21
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	96.9		%	0.100	NA	1	-	12/07/21 09:07	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	12/08/21 11:40	12/08/21 15:01	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.826	0.165	1	12/17/21 06:35	12/17/21 12:05	1,7196A	JT

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-02
Client ID: SB-21 10-12'
Sample Location: MANHATTAN, NY

Date Collected: 12/06/21 09:30
Date Received: 12/06/21
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	97.8		%	0.100	NA	1	-	12/07/21 09:07	121,2540G	RI
Cyanide, Total	ND		mg/kg	0.99	0.21	1	12/08/21 11:40	12/08/21 15:04	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.818	0.164	1	12/17/21 06:35	12/17/21 12:05	1,7196A	JT

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-03
Client ID: SB-20 1-3'
Sample Location: MANHATTAN, NY

Date Collected: 12/06/21 11:30
Date Received: 12/06/21
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	97.1		%	0.100	NA	1	-	12/07/21 09:07	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	12/08/21 11:40	12/08/21 15:05	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.824	0.165	1	12/17/21 06:35	12/17/21 12:05	1,7196A	JT

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-04
Client ID: SB-20 9-11'
Sample Location: MANHATTAN, NY

Date Collected: 12/06/21 12:00
Date Received: 12/06/21
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	83.5		%	0.100	NA	1	-	12/07/21 09:07	121,2540G	RI
Cyanide, Total	0.25	J	mg/kg	1.2	0.24	1	12/08/21 11:40	12/08/21 15:06	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.958	0.192	1	12/17/21 06:35	12/17/21 12:05	1,7196A	JT

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

SAMPLE RESULTS

Lab ID: L2166780-05
Client ID: COMP #4 (21,20)
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil
Date Collected: 12/06/21 12:30
Date Received: 12/06/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
pH (H)	8.0		SU	-	NA	1	-	12/15/21 21:12	1,9045D	RM
Cyanide, Reactive	ND		mg/kg	10	10.	1	12/17/21 17:10	12/17/21 19:23	125,7.3	MJ
Sulfide, Reactive	ND		mg/kg	10	10.	1	12/17/21 17:10	12/17/21 18:46	125,7.3	MJ

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2166780
Report Date: 12/20/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1580491-1										
Cyanide, Total	ND		mg/kg	0.87	0.18	1	12/08/21 11:40	12/08/21 14:52	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1581321-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	12/17/21 06:35	12/17/21 12:05	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 05 Batch: WG1584579-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	12/17/21 17:10	12/17/21 18:45	125,7.3	MJ
General Chemistry - Westborough Lab for sample(s): 05 Batch: WG1584584-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	12/17/21 17:10	12/17/21 19:22	125,7.3	MJ

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2166780

Report Date: 12/20/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1580491-2 WG1580491-3								
Cyanide, Total	98		102		80-120	5		35
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1581321-2								
Chromium, Hexavalent	96		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 05 Batch: WG1583836-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 05 Batch: WG1584579-2								
Sulfide, Reactive	103		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 05 Batch: WG1584584-2								
Cyanide, Reactive	113		-		30-125	-		40

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166780
Report Date: 12/20/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1580491-4 WG1580491-5 QC Sample: L2166797-01 Client ID: MS Sample												
Cyanide, Total	ND	10	12	120		13	120		75-125	8		35
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1581321-4 QC Sample: L2166780-03 Client ID: SB-20 1-3'												
Chromium, Hexavalent	ND	820	756	92		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166780
Report Date: 12/20/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1579999-1 QC Sample: L2166821-01 Client ID: DUP Sample						
Solids, Total	95.5	95.5	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1581321-6 QC Sample: L2166780-03 Client ID: SB-20 1-3'						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1583836-2 QC Sample: L2166853-01 Client ID: DUP Sample						
pH	7.8	7.8	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1584579-3 QC Sample: L2167648-03 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1584584-3 QC Sample: L2167648-03 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166780
Report Date: 12/20/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2166780-01A	Vial MeOH preserved	A	NA		4.0	Y	Absent		NYTCL-8260HLW(14)
L2166780-01B	Vial water preserved	A	NA		4.0	Y	Absent	07-DEC-21 07:20	NYTCL-8260HLW(14)
L2166780-01C	Vial water preserved	A	NA		4.0	Y	Absent	07-DEC-21 07:20	NYTCL-8260HLW(14)
L2166780-01D	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2166780-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	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),SB-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SE-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2166780-01F	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166780-01G	Glass 120ml/4oz unpreserved	A	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166780-01H	Glass 250ml/8oz unpreserved	A	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166780-02A	Vial MeOH preserved	A	NA		4.0	Y	Absent		NYTCL-8260HLW(14)
L2166780-02B	Vial water preserved	A	NA		4.0	Y	Absent	07-DEC-21 07:20	NYTCL-8260HLW(14)
L2166780-02C	Vial water preserved	A	NA		4.0	Y	Absent	07-DEC-21 07:20	NYTCL-8260HLW(14)
L2166780-02D	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2166780-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MN-TI(180),HG-T(28),FE-TI(180),MG-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2166780-02F	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166780-02G	Glass 120ml/4oz unpreserved	A	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166780-02H	Glass 250ml/8oz unpreserved	A	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166780
Report Date: 12/20/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2166780-03A	Vial MeOH preserved	A	NA		4.0	Y	Absent		NYTCL-8260HLW(14)
L2166780-03B	Vial water preserved	A	NA		4.0	Y	Absent	07-DEC-21 07:20	NYTCL-8260HLW(14)
L2166780-03C	Vial water preserved	A	NA		4.0	Y	Absent	07-DEC-21 07:20	NYTCL-8260HLW(14)
L2166780-03D	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2166780-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),CO-TI(180),V-TI(180),MG-TI(180),HG-T(28),MN-TI(180),FE-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2166780-03F	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166780-03G	Glass 120ml/4oz unpreserved	A	NA		4.0	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166780-03H	Glass 250ml/8oz unpreserved	A	NA		4.0	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166780-04A	Vial MeOH preserved	A	NA		4.0	Y	Absent		NYTCL-8260HLW(14)
L2166780-04B	Vial water preserved	A	NA		4.0	Y	Absent	07-DEC-21 07:20	NYTCL-8260HLW(14)
L2166780-04C	Vial water preserved	A	NA		4.0	Y	Absent	07-DEC-21 07:20	NYTCL-8260HLW(14)
L2166780-04D	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L2166780-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	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),PB-TI(180),ZN-TI(180),SE-TI(180),SB-TI(180),CO-TI(180),V-TI(180),MG-TI(180),FE-TI(180),MN-TI(180),HG-T(28),NA-TI(180),K-TI(180),CA-TI(180),CD-TI(180)
L2166780-04F	Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166780-04G	Glass 120ml/4oz unpreserved	A	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166780-04H	Glass 250ml/8oz unpreserved	A	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2166780-05A	Vial Large Septa unpreserved (4oz)	A	NA		4.0	Y	Absent		TCLP-EXT-ZHE(14)
L2166780-05B	Glass 500ml/16oz unpreserved	A	NA		4.0	Y	Absent		IGNIT-1030(14),REACTS(14),PH-9045(1),REACTCN(14)
L2166780-05W	Amber 1000ml unpreserved Extracts	A	NA		4.0	Y	Absent		TCLP-8270(14),HERB-TCLP*(14),PEST-TCLP*(14)
L2166780-05X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.0	Y	Absent		CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)

*Values in parentheses indicate holding time in days

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2166780
Report Date: 12/20/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2166780-05X9	Tumble Vessel	A	NA		4.0	Y	Absent		-
L2166780-05Y	Vial unpreserved Extracts	A	NA		4.0	Y	Absent		TCLP-VOA(14)
L2166780-05Z	Vial unpreserved Extracts	A	NA		4.0	Y	Absent		TCLP-VOA(14)

*Values in parentheses indicate holding time in days

Project Name:	BATTERY PARK	**Lab Number:**	L2166780
Project Number:	20-1152	**Report Date:**	12/20/21

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:	BATTERY PARK	**Lab Number:**	L2166780
Project Number:	20-1152	**Report Date:**	12/20/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. 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.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	BATTERY PARK	**Lab Number:**	L2166780
Project Number:	20-1152	**Report Date:**	12/20/21

Data Qualifiers

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:	BATTERY PARK	**Lab Number:**	L2166780
Project Number:	20-1152	**Report Date:**	12/20/21

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.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

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.

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

Page of

Date Rec'd in Lab: 12/6/21

ALPHA Job #: L2106780

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

Client Information
Client: Matrix
Address: 333 W 39th St New York NY
Phone:
Fax:
Email: BCrespi@MNVE.com

Project Information
Project Name: Battery Park
Project Location: Manhattan NY
Project #: 20-1152
(Use Project name as Project #) ☐
Project Manager: Brian Crespi
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

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOC	TCL SVOC	TCL PCB	TCL Pesticides	TAL Metals, Cr6+	Full TCLP	RCRA Characteristics		Sample Specific Comments	Total Bottle
L2106780-01	SB21 1-3'	12-6-21	09:00	S	PM	X	X	X	X	X					
02	SB21 10-12'	↓	09:30	↓	PM	X	X	X	X	X					
03	SB20 1-3'	↓	11:30	↓	PM	X	X	X	X	X					
04	SB20 9-11'	↓	12:00	↓	PM	X	X	X	X	X					
05	Comp #4 (21,20)	↓	12:30	↓	PM						X	X			

Container Type
Preservative

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
	12-6-21 13:55		
	12/6/21 17:15		12/6/21 17:40
	12/6/21		12/6/21 0830

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)

ANALYTICAL REPORT

Lab Number:	L2167681
Client:	Matrix New World Engineering, Inc. 333 West 39th Street, Second Floor New York City, NY 10018
ATTN:	Brian Crespi
Phone:	(212) 324-4251
Project Name:	BATTERY PARK
Project Number:	20-1152
Report Date:	12/27/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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

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

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2167681
Report Date: 12/27/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2167681-01	SB19 1-3'	SOIL	MANHATTAN, NY	12/09/21 08:30	12/09/21
L2167681-02	SB18 1-4'	SOIL	MANHATTAN, NY	12/09/21 09:45	12/09/21
L2167681-03	SB18 11-13'	SOIL	MANHATTAN, NY	12/09/21 10:00	12/09/21
L2167681-04	SB17 1-3.5'	SOIL	MANHATTAN, NY	12/09/21 11:15	12/09/21
L2167681-05	COMP #5 (19,18)	SOIL	MANHATTAN, NY	12/09/21 10:10	12/09/21

Project Name:	BATTERY PARK	**Lab Number:**	L2167681
Project Number:	20-1152	**Report Date:**	12/27/21

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:	BATTERY PARK	**Lab Number:**	L2167681
Project Number:	20-1152	**Report Date:**	12/27/21

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

The analyses performed were specified by the client.

TCLP Semivolatiles

The WG1584384-2/-3 LCS/LCSD recoveries, associated with L2167681-05, are below the acceptance criteria for pyridine (2%/6%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Total Metals

L2167681-01 through -04: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1585857-1 Method Blank, associated with L2167681-01 through -04, has a concentration above the reporting limit for iron. Since the associated sample concentrations are either greater than 10x the blank concentration or non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".

Cyanide, Total

The WG1584039-2/-3 LCS/LCSD recoveries for cyanide, total (65%/68%), associated with L2167681-01, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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: Cristin Walker

Title: Technical Director/Representative Date: 12/27/21

ORGANICS

VOLATILES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-01
Client ID: SB19 1-3'
Sample Location: MANHATTAN, NY
Date Collected: 12/09/21 08:30
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/19/21 17:44
Analyst: JC
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.8	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	0.68	J	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	0.80	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
1,3-Dichloropropene, Total	ND		ug/kg	0.58	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.58	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	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	ND		ug/kg	1.2	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	1.2	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

Project Name: BATTERY PARK **Lab Number:** L2167681

Project Number: 20-1152 **Report Date:** 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-01 Date Collected: 12/09/21 08:30

Client ID: SB19 1-3' Date Received: 12/09/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.58	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
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
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.0	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
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.58	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.19	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.6	0.75	1
Acrylonitrile	ND		ug/kg	4.6	1.3	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-01
Client ID: SB19 1-3'
Sample Location: MANHATTAN, NY
Date Collected: 12/09/21 08:30
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.39	1
1,4-Dioxane	ND		ug/kg	92	41.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	111		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-02
Client ID: SB18 1-4'
Sample Location: MANHATTAN, NY
Date Collected: 12/09/21 09:45
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/19/21 18:09
Analyst: JC
Percent Solids: 98%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	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	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	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	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.19	1
Benzene	ND		ug/kg	0.56	0.19	1
Toluene	ND		ug/kg	1.1	0.61	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

Project Name: BATTERY PARK **Lab Number:** L2167681

Project Number: 20-1152 **Report Date:** 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-02 Date Collected: 12/09/21 09:45

Client ID: SB18 1-4' Date Received: 12/09/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.56	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1
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
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.3	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.3	0.13	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.5	0.74	1
Acrylonitrile	ND		ug/kg	4.5	1.3	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-02
Client ID: SB18 1-4'
Sample Location: MANHATTAN, NY
Date Collected: 12/09/21 09:45
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	90	40.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.43	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	113		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-03
Client ID: SB18 11-13'
Sample Location: MANHATTAN, NY
Date Collected: 12/09/21 10:00
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/19/21 18:35
Analyst: JC
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	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	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.19	1
Benzene	ND		ug/kg	0.56	0.19	1
Toluene	ND		ug/kg	1.1	0.61	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.2	0.65	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.2	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1

Project Name: BATTERY PARK **Lab Number:** L2167681

Project Number: 20-1152 **Report Date:** 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-03 Date Collected: 12/09/21 10:00

Client ID: SB18 11-13' Date Received: 12/09/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.23	1
p/m-Xylene	ND		ug/kg	2.2	0.63	1
o-Xylene	ND		ug/kg	1.1	0.33	1
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.22	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.5	0.73	1
Acrylonitrile	ND		ug/kg	4.5	1.3	1

Project Name: BATTERY PARK **Lab Number:** L2167681

Project Number: 20-1152 **Report Date:** 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-03 Date Collected: 12/09/21 10:00

Client ID: SB18 11-13' Date Received: 12/09/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.38	1
1,4-Dioxane	ND		ug/kg	90	40.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.43	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.22	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	111		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-04
Client ID: SB17 1-3.5'
Sample Location: MANHATTAN, NY
Date Collected: 12/09/21 11:15
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/19/21 19:00
Analyst: JC
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.2	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	ND		ug/kg	0.62	0.24	1
Chlorobenzene	ND		ug/kg	0.62	0.16	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.85	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.62	0.20	1
Bromodichloromethane	ND		ug/kg	0.62	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.62	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.62	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.62	0.20	1
Bromoform	ND		ug/kg	4.9	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.62	0.20	1
Benzene	ND		ug/kg	0.62	0.20	1
Toluene	ND		ug/kg	1.2	0.67	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.9	1.1	1
Bromomethane	ND		ug/kg	2.5	0.71	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.5	0.56	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1

Project Name: BATTERY PARK **Lab Number:** L2167681

Project Number: 20-1152 **Report Date:** 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-04 Date Collected: 12/09/21 11:15

Client ID: SB17 1-3.5' Date Received: 12/09/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.62	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.69	1
o-Xylene	ND		ug/kg	1.2	0.36	1
Xylenes, Total	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.5	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.9	1
Carbon disulfide	ND		ug/kg	12	5.6	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	0.16	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.5	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.5	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.62	0.16	1
Bromobenzene	ND		ug/kg	2.5	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.14	1
o-Chlorotoluene	ND		ug/kg	2.5	0.23	1
p-Chlorotoluene	ND		ug/kg	2.5	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.9	0.80	1
Acrylonitrile	ND		ug/kg	4.9	1.4	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-04
Client ID: SB17 1-3.5'
Sample Location: MANHATTAN, NY
Date Collected: 12/09/21 11:15
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.41	1
1,4-Dioxane	ND		ug/kg	98	43.	1
p-Diethylbenzene	ND		ug/kg	2.5	0.22	1
p-Ethyltoluene	ND		ug/kg	2.5	0.47	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.5	0.23	1
Ethyl ether	ND		ug/kg	2.5	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	113		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-05
Client ID: COMP #5 (19,18)
Sample Location: MANHATTAN, NY

Date Collected: 12/09/21 10:10
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/13/21 06:47
Analyst: MM

TCLP/SPLP Ext. Date: 12/11/21 13:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	89		70-130
dibromofluoromethane	114		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/13/21 05:11
Analyst: MM
TCLP/SPLP Extraction Date: 12/11/21 10:27
Extraction Date: 12/11/21 10:27

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 05 Batch: WG1582537-5					
Chloroform	ND		ug/l	7.5	2.2
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	92		70-130
dibromofluoromethane	111		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/19/21 13:32
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04 Batch: WG1586073-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/19/21 13:32
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04 Batch: WG1586073-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/19/21 13:32
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04 Batch: WG1586073-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	109		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2167681

Report Date: 12/27/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 05 Batch: WG1582537-3 WG1582537-4								
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	130		120		63-132	8		20
Tetrachloroethene	100		110		70-130	10		20
Chlorobenzene	93		92		75-130	1		25
1,2-Dichloroethane	100		96		70-130	4		20
Benzene	93		90		70-130	3		25
Vinyl chloride	82		80		55-140	2		20
1,1-Dichloroethene	96		94		61-145	2		25
Trichloroethene	100		100		70-130	0		25
1,4-Dichlorobenzene	95		94		70-130	1		20
2-Butanone	76		75		63-138	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		109		70-130
Toluene-d8	97		95		70-130
4-Bromofluorobenzene	89		88		70-130
dibromofluoromethane	109		109		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2167681

Report Date: 12/27/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1586073-3 WG1586073-4								
Methylene chloride	97		96		70-130	1		30
1,1-Dichloroethane	99		98		70-130	1		30
Chloroform	96		95		70-130	1		30
Carbon tetrachloride	107		105		70-130	2		30
1,2-Dichloropropane	96		95		70-130	1		30
Dibromochloromethane	102		101		70-130	1		30
1,1,2-Trichloroethane	95		94		70-130	1		30
Tetrachloroethene	108		108		70-130	0		30
Chlorobenzene	100		101		70-130	1		30
Trichlorofluoromethane	117		115		70-139	2		30
1,2-Dichloroethane	102		100		70-130	2		30
1,1,1-Trichloroethane	103		102		70-130	1		30
Bromodichloromethane	96		96		70-130	0		30
trans-1,3-Dichloropropene	101		100		70-130	1		30
cis-1,3-Dichloropropene	102		101		70-130	1		30
1,1-Dichloropropene	104		104		70-130	0		30
Bromoform	98		97		70-130	1		30
1,1,2,2-Tetrachloroethane	90		90		70-130	0		30
Benzene	98		97		70-130	1		30
Toluene	97		98		70-130	1		30
Ethylbenzene	99		99		70-130	0		30
Chloromethane	91		90		52-130	1		30
Bromomethane	142		134		57-147	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2167681

Report Date: 12/27/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1586073-3 WG1586073-4								
Vinyl chloride	101		100		67-130	1		30
Chloroethane	109		108		50-151	1		30
1,1-Dichloroethene	104		103		65-135	1		30
trans-1,2-Dichloroethene	101		101		70-130	0		30
Trichloroethene	102		102		70-130	0		30
1,2-Dichlorobenzene	100		100		70-130	0		30
1,3-Dichlorobenzene	101		100		70-130	1		30
1,4-Dichlorobenzene	99		99		70-130	0		30
Methyl tert butyl ether	97		94		66-130	3		30
p/m-Xylene	102		102		70-130	0		30
o-Xylene	101		101		70-130	0		30
cis-1,2-Dichloroethene	98		98		70-130	0		30
Dibromomethane	100		99		70-130	1		30
Styrene	101		101		70-130	0		30
Dichlorodifluoromethane	100		99		30-146	1		30
Acetone	94		89		54-140	5		30
Carbon disulfide	95		94		59-130	1		30
2-Butanone	83		84		70-130	1		30
Vinyl acetate	95		96		70-130	1		30
4-Methyl-2-pentanone	88		86		70-130	2		30
1,2,3-Trichloropropane	93		91		68-130	2		30
2-Hexanone	86		85		70-130	1		30
Bromochloromethane	102		101		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2167681

Report Date: 12/27/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1586073-3 WG1586073-4								
2,2-Dichloropropane	101		103		70-130	2		30
1,2-Dibromoethane	104		103		70-130	1		30
1,3-Dichloropropane	98		97		69-130	1		30
1,1,1,2-Tetrachloroethane	103		102		70-130	1		30
Bromobenzene	99		99		70-130	0		30
n-Butylbenzene	105		105		70-130	0		30
sec-Butylbenzene	102		102		70-130	0		30
tert-Butylbenzene	101		101		70-130	0		30
o-Chlorotoluene	99		98		70-130	1		30
p-Chlorotoluene	97		96		70-130	1		30
1,2-Dibromo-3-chloropropane	96		93		68-130	3		30
Hexachlorobutadiene	112		114		67-130	2		30
Isopropylbenzene	98		98		70-130	0		30
p-Isopropyltoluene	103		104		70-130	1		30
Naphthalene	92		93		70-130	1		30
Acrylonitrile	92		92		70-130	0		30
n-Propylbenzene	101		100		70-130	1		30
1,2,3-Trichlorobenzene	99		100		70-130	1		30
1,2,4-Trichlorobenzene	102		103		70-130	1		30
1,3,5-Trimethylbenzene	98		98		70-130	0		30
1,2,4-Trimethylbenzene	98		98		70-130	0		30
1,4-Dioxane	106		106		65-136	0		30
p-Diethylbenzene	102		102		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2167681

Report Date: 12/27/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1586073-3 WG1586073-4								
p-Ethyltoluene	100		99		70-130	1		30
1,2,4,5-Tetramethylbenzene	100		101		70-130	1		30
Ethyl ether	96		94		67-130	2		30
trans-1,4-Dichloro-2-butene	96		92		70-130	4		30

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

SEMIVOLATILES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-01
Client ID: SB19 1-3'
Sample Location: MANHATTAN, NY

Date Collected: 12/09/21 08:30
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/21/21 17:47
Analyst: CMM
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 12/18/21 17:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	130		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: BATTERY PARK **Lab Number:** L2167681

Project Number: 20-1152 **Report Date:** 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-01 Date Collected: 12/09/21 08:30

Client ID: SB19 1-3' Date Received: 12/09/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	80	J	ug/kg	100	19.	1
Benzo(a)pyrene	76	J	ug/kg	140	42.	1
Benzo(b)fluoranthene	110		ug/kg	100	29.	1
Benzo(k)fluoranthene	28	J	ug/kg	100	27.	1
Chrysene	74	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	62	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	78	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	62	J	ug/kg	140	24.	1
Pyrene	130		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	82.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: BATTERY PARK
Lab Number: L2167681
Project Number: 20-1152
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-01
Client ID: SB19 1-3'
Sample Location: MANHATTAN, NY
Date Collected: 12/09/21 08:30
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	87		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	67		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-02
Client ID: SB18 1-4'
Sample Location: MANHATTAN, NY

Date Collected: 12/09/21 09:45
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/21/21 18:09
Analyst: CMM
Percent Solids: 98%

Extraction Method: EPA 3546
Extraction Date: 12/18/21 17:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	35	J	ug/kg	130	17.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	30.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	29.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	360		ug/kg	100	19.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	24.	1
Hexachlorocyclopentadiene	ND		ug/kg	480	150	1
Hexachloroethane	ND		ug/kg	130	27.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	20.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	130	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.	1
Butyl benzyl phthalate	ND		ug/kg	170	42.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	57.	1

Project Name: BATTERY PARK **Lab Number:** L2167681

Project Number: 20-1152 **Report Date:** 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-02 Date Collected: 12/09/21 09:45

Client ID: SB18 1-4' Date Received: 12/09/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	35.	1
Benzo(a)anthracene	170		ug/kg	100	19.	1
Benzo(a)pyrene	170		ug/kg	130	41.	1
Benzo(b)fluoranthene	230		ug/kg	100	28.	1
Benzo(k)fluoranthene	63	J	ug/kg	100	27.	1
Chrysene	160		ug/kg	100	17.	1
Acenaphthylene	ND		ug/kg	130	26.	1
Anthracene	34	J	ug/kg	100	33.	1
Benzo(ghi)perylene	120	J	ug/kg	130	20.	1
Fluorene	22	J	ug/kg	170	16.	1
Phenanthrene	270		ug/kg	100	20.	1
Dibenzo(a,h)anthracene	30	J	ug/kg	100	19.	1
Indeno(1,2,3-cd)pyrene	140		ug/kg	130	23.	1
Pyrene	320		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	380	39.	1
4-Chloroaniline	ND		ug/kg	170	30.	1
2-Nitroaniline	ND		ug/kg	170	32.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	69.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	55.	1
2-Nitrophenol	ND		ug/kg	360	63.	1
4-Nitrophenol	ND		ug/kg	230	68.	1
2,4-Dinitrophenol	ND		ug/kg	800	78.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	80.	1
Pentachlorophenol	ND		ug/kg	130	37.	1
Phenol	ND		ug/kg	170	25.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-02
Client ID: SB18 1-4'
Sample Location: MANHATTAN, NY
Date Collected: 12/09/21 09:45
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	32.	1
Benzoic Acid	ND		ug/kg	540	170	1
Benzyl Alcohol	ND		ug/kg	170	51.	1
Carbazole	ND		ug/kg	170	16.	1
1,4-Dioxane	ND		ug/kg	25	7.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	99		25-120
Phenol-d6	104		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	92		30-120
2,4,6-Tribromophenol	102		10-136
4-Terphenyl-d14	86		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-03
Client ID: SB18 11-13'
Sample Location: MANHATTAN, NY

Date Collected: 12/09/21 10:00
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/21/21 18:31
Analyst: CMM
Percent Solids: 97%

Extraction Method: EPA 3546
Extraction Date: 12/18/21 17:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	27	J	ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: BATTERY PARK **Lab Number:** L2167681

Project Number: 20-1152 **Report Date:** 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-03 Date Collected: 12/09/21 10:00

Client ID: SB18 11-13' Date Received: 12/09/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	22	J	ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	82.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-03
Client ID: SB18 11-13'
Sample Location: MANHATTAN, NY
Date Collected: 12/09/21 10:00
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	81		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-04
Client ID: SB17 1-3.5'
Sample Location: MANHATTAN, NY

Date Collected: 12/09/21 11:15
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/21/21 18:54
Analyst: CMM
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 12/18/21 17:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	76	J	ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	4300		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	89	J	ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1

Project Name: BATTERY PARK **Lab Number:** L2167681

Project Number: 20-1152 **Report Date:** 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-04 Date Collected: 12/09/21 11:15

Client ID: SB17 1-3.5' Date Received: 12/09/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	2600		ug/kg	100	19.	1
Benzo(a)pyrene	2700		ug/kg	140	42.	1
Benzo(b)fluoranthene	3600		ug/kg	100	29.	1
Benzo(k)fluoranthene	920		ug/kg	100	28.	1
Chrysene	2300		ug/kg	100	18.	1
Acenaphthylene	280		ug/kg	140	27.	1
Anthracene	380		ug/kg	100	34.	1
Benzo(ghi)perylene	1800		ug/kg	140	20.	1
Fluorene	72	J	ug/kg	170	17.	1
Phenanthrene	1400		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	490		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	2100		ug/kg	140	24.	1
Pyrene	4000		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	29	J	ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	830	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: BATTERY PARK
Lab Number: L2167681
Project Number: 20-1152
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-04
Client ID: SB17 1-3.5'
Sample Location: MANHATTAN, NY
Date Collected: 12/09/21 11:15
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	51	J	ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	69		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-05
Client ID: COMP #5 (19,18)
Sample Location: MANHATTAN, NY

Date Collected: 12/09/21 10:10
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/22/21 16:44
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 12/16/21 18:38

TCLP/SPLP Ext. Date: 12/12/21 06:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		21-120
Phenol-d6	80		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	81		10-120
4-Terphenyl-d14	86		33-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/18/21 20:21
Analyst: SLR
TCLP/SPLP Extraction Date: 12/11/21 15:56

Extraction Method: EPA 3510C
Extraction Date: 12/16/21 18:38

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 05 Batch: WG1584384-1					
Hexachlorobenzene	ND		ug/l	10	3.4
2,4-Dinitrotoluene	ND		ug/l	25	1.9
Hexachlorobutadiene	ND		ug/l	10	3.0
Hexachloroethane	ND		ug/l	10	2.2
Nitrobenzene	ND		ug/l	10	3.3
2,4,6-Trichlorophenol	ND		ug/l	25	2.5
Pentachlorophenol	17	J	ug/l	50	9.8
2-Methylphenol	ND		ug/l	25	5.5
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8
2,4,5-Trichlorophenol	ND		ug/l	25	1.9
Pyridine	ND		ug/l	18	4.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		21-120
Phenol-d6	64		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	73		33-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/21/21 13:47
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 12/18/21 17:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1585082-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	100	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	100	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	17.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
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	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/21/21 13:47
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 12/18/21 17:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1585082-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	26.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	69.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	100	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/21/21 13:47
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 12/18/21 17:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1585082-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	79		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2167681
Report Date: 12/27/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 05 Batch: WG1584384-2 WG1584384-3								
Hexachlorobenzene	86		75		40-140	14		30
2,4-Dinitrotoluene	67		58		40-132	14		30
Hexachlorobutadiene	84		74		28-111	13		30
Hexachloroethane	65		54		21-105	18		30
Nitrobenzene	74		63		40-140	16		30
2,4,6-Trichlorophenol	87		76		30-130	13		30
Pentachlorophenol	40		46		9-103	14		30
2-Methylphenol	80		72		30-130	11		30
3-Methylphenol/4-Methylphenol	76		69		30-130	10		30
2,4,5-Trichlorophenol	98		84		30-130	15		30
Pyridine	**2**	Q	**6**	Q	10-66	**105**	Q	30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	85		76		21-120
Phenol-d6	72		65		10-120
Nitrobenzene-d5	78		67		23-120
2-Fluorobiphenyl	82		71		15-120
2,4,6-Tribromophenol	91		80		10-120
4-Terphenyl-d14	82		76		33-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2167681

Report Date: 12/27/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1585082-2 WG1585082-3								
Acenaphthene	81		88		31-137	8		50
1,2,4-Trichlorobenzene	67		70		38-107	4		50
Hexachlorobenzene	80		87		40-140	8		50
Bis(2-chloroethyl)ether	71		79		40-140	11		50
2-Chloronaphthalene	76		82		40-140	8		50
1,2-Dichlorobenzene	69		76		40-140	10		50
1,3-Dichlorobenzene	69		75		40-140	8		50
1,4-Dichlorobenzene	68		74		28-104	8		50
3,3'-Dichlorobenzidine	44		57		40-140	26		50
2,4-Dinitrotoluene	78		86		40-132	10		50
2,6-Dinitrotoluene	74		82		40-140	10		50
Fluoranthene	80		86		40-140	7		50
4-Chlorophenyl phenyl ether	71		79		40-140	11		50
4-Bromophenyl phenyl ether	78		84		40-140	7		50
Bis(2-chloroisopropyl)ether	60		65		40-140	8		50
Bis(2-chloroethoxy)methane	72		80		40-117	11		50
Hexachlorobutadiene	71		77		40-140	8		50
Hexachlorocyclopentadiene	53		60		40-140	12		50
Hexachloroethane	71		79		40-140	11		50
Isophorone	72		80		40-140	11		50
Naphthalene	78		84		40-140	7		50
Nitrobenzene	72		81		40-140	12		50
NDPA/DPA	78		84		36-157	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2167681

Report Date: 12/27/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1585082-2 WG1585082-3								
n-Nitrosodi-n-propylamine	69		77		32-121	11		50
Bis(2-ethylhexyl)phthalate	100		111		40-140	10		50
Butyl benzyl phthalate	98		107		40-140	9		50
Di-n-butylphthalate	96		106		40-140	10		50
Di-n-octylphthalate	103		113		40-140	9		50
Diethyl phthalate	88		96		40-140	9		50
Dimethyl phthalate	80		86		40-140	7		50
Benzo(a)anthracene	77		84		40-140	9		50
Benzo(a)pyrene	70		76		40-140	8		50
Benzo(b)fluoranthene	78		84		40-140	7		50
Benzo(k)fluoranthene	76		84		40-140	10		50
Chrysene	72		78		40-140	8		50
Acenaphthylene	77		83		40-140	8		50
Anthracene	80		86		40-140	7		50
Benzo(ghi)perylene	79		85		40-140	7		50
Fluorene	79		84		40-140	6		50
Phenanthrene	83		89		40-140	7		50
Dibenzo(a,h)anthracene	79		88		40-140	11		50
Indeno(1,2,3-cd)pyrene	79		88		40-140	11		50
Pyrene	79		87		35-142	10		50
Biphenyl	78		84		37-127	7		50
4-Chloroaniline	77		85		40-140	10		50
2-Nitroaniline	82		89		47-134	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2167681

Report Date: 12/27/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1585082-2 WG1585082-3								
3-Nitroaniline	68		80		26-129	16		50
4-Nitroaniline	77		86		41-125	11		50
Dibenzofuran	82		88		40-140	7		50
2-Methylnaphthalene	76		81		40-140	6		50
1,2,4,5-Tetrachlorobenzene	75		79		40-117	5		50
Acetophenone	77		84		14-144	9		50
2,4,6-Trichlorophenol	74		80		30-130	8		50
p-Chloro-m-cresol	89		93		26-103	4		50
2-Chlorophenol	76		84		25-102	10		50
2,4-Dichlorophenol	79		86		30-130	8		50
2,4-Dimethylphenol	80		87		30-130	8		50
2-Nitrophenol	70		77		30-130	10		50
4-Nitrophenol	90		99		11-114	10		50
2,4-Dinitrophenol	46		56		4-130	20		50
4,6-Dinitro-o-cresol	72		80		10-130	11		50
Pentachlorophenol	68		80		17-109	16		50
Phenol	78		88		26-90	12		50
2-Methylphenol	78		87		30-130.	11		50
3-Methylphenol/4-Methylphenol	86		95		30-130	10		50
2,4,5-Trichlorophenol	76		85		30-130	11		50
Benzoic Acid	**5**	Q	**7**	Q	10-110	37		50
Benzyl Alcohol	77		89		40-140	14		50
Carbazole	84		92		54-128	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2167681

Report Date: 12/27/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1585082-2 WG1585082-3								
1,4-Dioxane	51		61		40-140	18		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	79		85		25-120
Phenol-d6	81		89		10-120
Nitrobenzene-d5	69		75		23-120
2-Fluorobiphenyl	73		77		30-120
2,4,6-Tribromophenol	79		86		10-136
4-Terphenyl-d14	74		81		18-120

PCBS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-01
Client ID: SB19 1-3'
Sample Location: MANHATTAN, NY

Date Collected: 12/09/21 08:30
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/19/21 14:44
Analyst: AWS
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 12/18/21 15:25
Cleanup Method: EPA 3665A
Cleanup Date: 12/19/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.9	3.01	1	A
Aroclor 1221	ND		ug/kg	33.9	3.40	1	A
Aroclor 1232	ND		ug/kg	33.9	7.18	1	A
Aroclor 1242	ND		ug/kg	33.9	4.57	1	A
Aroclor 1248	ND		ug/kg	33.9	5.08	1	A
Aroclor 1254	ND		ug/kg	33.9	3.71	1	A
Aroclor 1260	ND		ug/kg	33.9	6.26	1	B
Aroclor 1262	ND		ug/kg	33.9	4.30	1	A
Aroclor 1268	ND		ug/kg	33.9	3.51	1	A
PCBs, Total	ND		ug/kg	33.9	3.01	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-02
Client ID: SB18 1-4'
Sample Location: MANHATTAN, NY

Date Collected: 12/09/21 09:45
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/19/21 14:52
Analyst: AWS
Percent Solids: 98%

Extraction Method: EPA 3546
Extraction Date: 12/18/21 15:25
Cleanup Method: EPA 3665A
Cleanup Date: 12/19/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.4	2.97	1	A
Aroclor 1221	ND		ug/kg	33.4	3.35	1	A
Aroclor 1232	ND		ug/kg	33.4	7.09	1	A
Aroclor 1242	ND		ug/kg	33.4	4.51	1	A
Aroclor 1248	ND		ug/kg	33.4	5.02	1	A
Aroclor 1254	ND		ug/kg	33.4	3.66	1	A
Aroclor 1260	ND		ug/kg	33.4	6.18	1	A
Aroclor 1262	ND		ug/kg	33.4	4.25	1	A
Aroclor 1268	ND		ug/kg	33.4	3.46	1	A
PCBs, Total	ND		ug/kg	33.4	2.97	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-03
Client ID: SB18 11-13'
Sample Location: MANHATTAN, NY

Date Collected: 12/09/21 10:00
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/19/21 15:00
Analyst: AWS
Percent Solids: 97%

Extraction Method: EPA 3546
Extraction Date: 12/18/21 15:25
Cleanup Method: EPA 3665A
Cleanup Date: 12/19/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.1	2.94	1	A
Aroclor 1221	ND		ug/kg	33.1	3.32	1	A
Aroclor 1232	ND		ug/kg	33.1	7.02	1	A
Aroclor 1242	ND		ug/kg	33.1	4.46	1	A
Aroclor 1248	ND		ug/kg	33.1	4.96	1	A
Aroclor 1254	ND		ug/kg	33.1	3.62	1	A
Aroclor 1260	ND		ug/kg	33.1	6.12	1	A
Aroclor 1262	ND		ug/kg	33.1	4.20	1	A
Aroclor 1268	ND		ug/kg	33.1	3.43	1	A
PCBs, Total	ND		ug/kg	33.1	2.94	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-04
Client ID: SB17 1-3.5'
Sample Location: MANHATTAN, NY

Date Collected: 12/09/21 11:15
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/19/21 15:09
Analyst: AWS
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 12/18/21 15:25
Cleanup Method: EPA 3665A
Cleanup Date: 12/19/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.7	3.08	1	A
Aroclor 1221	ND		ug/kg	34.7	3.48	1	A
Aroclor 1232	ND		ug/kg	34.7	7.37	1	A
Aroclor 1242	ND		ug/kg	34.7	4.68	1	A
Aroclor 1248	ND		ug/kg	34.7	5.21	1	A
Aroclor 1254	ND		ug/kg	34.7	3.80	1	A
Aroclor 1260	ND		ug/kg	34.7	6.42	1	B
Aroclor 1262	ND		ug/kg	34.7	4.41	1	A
Aroclor 1268	ND		ug/kg	34.7	3.60	1	A
PCBs, Total	ND		ug/kg	34.7	3.08	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 12/19/21 13:49
Analyst: AWS

Extraction Method: EPA 3546
Extraction Date: 12/18/21 15:25
Cleanup Method: EPA 3665A
Cleanup Date: 12/19/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-04 Batch: WG1585061-1						
Aroclor 1016	ND		ug/kg	31.7	2.81	A
Aroclor 1221	ND		ug/kg	31.7	3.17	A
Aroclor 1232	ND		ug/kg	31.7	6.71	A
Aroclor 1242	ND		ug/kg	31.7	4.27	A
Aroclor 1248	ND		ug/kg	31.7	4.75	A
Aroclor 1254	ND		ug/kg	31.7	3.46	A
Aroclor 1260	ND		ug/kg	31.7	5.85	A
Aroclor 1262	ND		ug/kg	31.7	4.02	A
Aroclor 1268	ND		ug/kg	31.7	3.28	A
PCBs, Total	ND		ug/kg	31.7	2.81	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	43		30-150	A
Decachlorobiphenyl	48		30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	52		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2167681

Report Date: 12/27/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1585061-2 WG1585061-3									
Aroclor 1016	60		64		40-140	6		50	A
Aroclor 1260	60		65		40-140	8		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		64		30-150	A
Decachlorobiphenyl	67		73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		72		30-150	B
Decachlorobiphenyl	70		73		30-150	B

PESTICIDES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-01
Client ID: SB19 1-3'
Sample Location: MANHATTAN, NY

Date Collected: 12/09/21 08:30
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/21/21 10:02
Analyst: JAW
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 12/18/21 15:38
Cleanup Method: EPA 3620B
Cleanup Date: 12/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.63	0.319	1	A
Lindane	ND		ug/kg	0.679	0.304	1	A
Alpha-BHC	ND		ug/kg	0.679	0.193	1	A
Beta-BHC	ND		ug/kg	1.63	0.618	1	A
Heptachlor	ND		ug/kg	0.815	0.365	1	A
Aldrin	ND		ug/kg	1.63	0.574	1	A
Heptachlor epoxide	ND		ug/kg	3.06	0.917	1	A
Endrin	ND		ug/kg	0.679	0.278	1	A
Endrin aldehyde	ND		ug/kg	2.04	0.713	1	A
Endrin ketone	ND		ug/kg	1.63	0.420	1	A
Dieldrin	ND		ug/kg	1.02	0.509	1	A
4,4'-DDE	ND		ug/kg	1.63	0.377	1	A
4,4'-DDD	ND		ug/kg	1.63	0.581	1	A
4,4'-DDT	ND		ug/kg	3.06	1.31	1	A
Endosulfan I	ND		ug/kg	1.63	0.385	1	A
Endosulfan II	ND		ug/kg	1.63	0.545	1	A
Endosulfan sulfate	ND		ug/kg	0.679	0.323	1	A
Methoxychlor	ND		ug/kg	3.06	0.951	1	A
Toxaphene	ND		ug/kg	30.6	8.56	1	A
cis-Chlordane	ND		ug/kg	2.04	0.568	1	A
trans-Chlordane	ND		ug/kg	2.04	0.538	1	A
Chlordane	ND		ug/kg	13.6	5.40	1	A

Project Name: BATTERY PARK
Lab Number: L2167681
Project Number: 20-1152
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-01
Client ID: SB19 1-3'
Sample Location: MANHATTAN, NY
Date Collected: 12/09/21 08:30
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	114		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	127		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-02
Client ID: SB18 1-4'
Sample Location: MANHATTAN, NY

Date Collected: 12/09/21 09:45
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/21/21 08:34
Analyst: JAW
Percent Solids: 98%

Extraction Method: EPA 3546
Extraction Date: 12/18/21 15:38
Cleanup Method: EPA 3620B
Cleanup Date: 12/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.61	0.316	1	A
Lindane	ND		ug/kg	0.672	0.300	1	A
Alpha-BHC	ND		ug/kg	0.672	0.191	1	A
Beta-BHC	ND		ug/kg	1.61	0.611	1	A
Heptachlor	ND		ug/kg	0.806	0.361	1	A
Aldrin	ND		ug/kg	1.61	0.568	1	A
Heptachlor epoxide	ND		ug/kg	3.02	0.907	1	A
Endrin	ND		ug/kg	0.672	0.275	1	A
Endrin aldehyde	ND		ug/kg	2.02	0.705	1	A
Endrin ketone	ND		ug/kg	1.61	0.415	1	A
Dieldrin	ND		ug/kg	1.01	0.504	1	A
4,4'-DDE	ND		ug/kg	1.61	0.373	1	A
4,4'-DDD	ND		ug/kg	1.61	0.575	1	A
4,4'-DDT	ND		ug/kg	3.02	1.30	1	A
Endosulfan I	ND		ug/kg	1.61	0.381	1	A
Endosulfan II	ND		ug/kg	1.61	0.539	1	A
Endosulfan sulfate	ND		ug/kg	0.672	0.320	1	A
Methoxychlor	ND		ug/kg	3.02	0.940	1	A
Toxaphene	ND		ug/kg	30.2	8.46	1	A
cis-Chlordane	ND		ug/kg	2.02	0.562	1	A
trans-Chlordane	ND		ug/kg	2.02	0.532	1	A
Chlordane	ND		ug/kg	13.4	5.34	1	A

Project Name: BATTERY PARK
Lab Number: L2167681
Project Number: 20-1152
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-02
Client ID: SB18 1-4'
Sample Location: MANHATTAN, NY
Date Collected: 12/09/21 09:45
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	106		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	113		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-03
Client ID: SB18 11-13'
Sample Location: MANHATTAN, NY

Date Collected: 12/09/21 10:00
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/21/21 12:14
Analyst: JAW
Percent Solids: 97%

Extraction Method: EPA 3546
Extraction Date: 12/18/21 15:38
Cleanup Method: EPA 3620B
Cleanup Date: 12/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.58	0.309	1	A
Lindane	ND		ug/kg	0.657	0.294	1	A
Alpha-BHC	ND		ug/kg	0.657	0.187	1	A
Beta-BHC	ND		ug/kg	1.58	0.598	1	A
Heptachlor	ND		ug/kg	0.789	0.354	1	A
Aldrin	ND		ug/kg	1.58	0.556	1	A
Heptachlor epoxide	ND		ug/kg	2.96	0.888	1	A
Endrin	ND		ug/kg	0.657	0.270	1	A
Endrin aldehyde	ND		ug/kg	1.97	0.690	1	A
Endrin ketone	ND		ug/kg	1.58	0.406	1	A
Dieldrin	ND		ug/kg	0.986	0.493	1	A
4,4'-DDE	ND		ug/kg	1.58	0.365	1	A
4,4'-DDD	ND		ug/kg	1.58	0.563	1	A
4,4'-DDT	ND		ug/kg	2.96	1.27	1	A
Endosulfan I	ND		ug/kg	1.58	0.373	1	A
Endosulfan II	ND		ug/kg	1.58	0.527	1	A
Endosulfan sulfate	ND		ug/kg	0.657	0.313	1	A
Methoxychlor	ND		ug/kg	2.96	0.920	1	A
Toxaphene	ND		ug/kg	29.6	8.28	1	A
cis-Chlordane	ND		ug/kg	1.97	0.550	1	A
trans-Chlordane	ND		ug/kg	1.97	0.521	1	A
Chlordane	ND		ug/kg	13.1	5.23	1	A

Project Name: BATTERY PARK
Lab Number: L2167681
Project Number: 20-1152
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-03
Client ID: SB18 11-13'
Sample Location: MANHATTAN, NY
Date Collected: 12/09/21 10:00
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	**181**	Q	30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-04
Client ID: SB17 1-3.5'
Sample Location: MANHATTAN, NY

Date Collected: 12/09/21 11:15
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/21/21 12:03
Analyst: JAW
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 12/18/21 15:38
Cleanup Method: EPA 3620B
Cleanup Date: 12/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.65	0.324	1	A
Lindane	ND		ug/kg	0.689	0.308	1	A
Alpha-BHC	ND		ug/kg	0.689	0.196	1	A
Beta-BHC	ND		ug/kg	1.65	0.627	1	A
Heptachlor	ND		ug/kg	0.826	0.370	1	A
Aldrin	ND		ug/kg	1.65	0.582	1	A
Heptachlor epoxide	ND		ug/kg	3.10	0.930	1	A
Endrin	ND		ug/kg	0.689	0.282	1	A
Endrin aldehyde	ND		ug/kg	2.06	0.723	1	A
Endrin ketone	ND		ug/kg	1.65	0.426	1	A
Dieldrin	ND		ug/kg	1.03	0.516	1	A
4,4'-DDE	ND		ug/kg	1.65	0.382	1	A
4,4'-DDD	ND		ug/kg	1.65	0.589	1	A
4,4'-DDT	ND		ug/kg	3.10	1.33	1	A
Endosulfan I	ND		ug/kg	1.65	0.390	1	A
Endosulfan II	ND		ug/kg	1.65	0.552	1	A
Endosulfan sulfate	ND		ug/kg	0.689	0.328	1	A
Methoxychlor	ND		ug/kg	3.10	0.964	1	A
Toxaphene	ND		ug/kg	31.0	8.68	1	A
cis-Chlordane	1.74	JP	ug/kg	2.06	0.576	1	B
trans-Chlordane	1.90	J	ug/kg	2.06	0.545	1	A
Chlordane	ND		ug/kg	13.8	5.47	1	A

Project Name: BATTERY PARK
Lab Number: L2167681
Project Number: 20-1152
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-04
Client ID: SB17 1-3.5'
Sample Location: MANHATTAN, NY
Date Collected: 12/09/21 11:15
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	43		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	118		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-05
Client ID: COMP #5 (19,18)
Sample Location: MANHATTAN, NY

Date Collected: 12/09/21 10:10
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/17/21 08:29
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 12/16/21 18:39

TCLP/SPLP Ext. Date: 12/12/21 06:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Pesticides by EPA 1311 - Westborough Lab							
Lindane	ND		ug/l	0.100	0.022	1	A
Heptachlor	ND		ug/l	0.100	0.016	1	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	1	A
Endrin	ND		ug/l	0.200	0.021	1	A
Methoxychlor	ND		ug/l	1.00	0.034	1	A
Toxaphene	ND		ug/l	1.00	0.314	1	A
Chlordane	ND		ug/l	1.00	0.232	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	104		30-150	A
Decachlorobiphenyl	97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-05
Client ID: COMP #5 (19,18)
Sample Location: MANHATTAN, NY

Date Collected: 12/09/21 10:10
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/21/21 20:20
Analyst: AR

Extraction Method: EPA 8151A
Extraction Date: 12/17/21 02:03

TCLP/SPLP Ext. Date: 12/12/21 06:53
Methylation Date: 12/18/21 07:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Herbicides by EPA 1311 - Westborough Lab							
2,4-D	ND		mg/l	0.025	0.001	1	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	89		30-150	A
DCAA	83		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/17/21 07:58
Analyst: EJL
TCLP/SPLP Extraction Date: 12/11/21 15:56

Extraction Method: EPA 3510C
Extraction Date: 12/16/21 18:39

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Pesticides by EPA 1311 - Westborough Lab for sample(s): 05 Batch: WG1584385-1						
Lindane	ND		ug/l	0.100	0.022	A
Heptachlor	ND		ug/l	0.100	0.016	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	A
Endrin	ND		ug/l	0.200	0.021	A
Methoxychlor	ND		ug/l	1.00	0.034	A
Toxaphene	ND		ug/l	1.00	0.314	A
Chlordane	ND		ug/l	1.00	0.232	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	106		30-150	A
Decachlorobiphenyl	128		30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	93		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 12/21/21 19:25
Analyst: AR
TCLP/SPLP Extraction Date: 12/11/21 15:56
Methylation Date: 12/18/21 07:38

Extraction Method: EPA 8151A
Extraction Date: 12/17/21 02:03

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Herbicides by EPA 1311 - Westborough Lab for sample(s): 05 Batch: WG1584456-1						
2,4-D	ND		mg/l	0.025	0.001	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	87		30-150	A
DCAA	78		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/20/21 18:44
Analyst: EJL

Extraction Method: EPA 3546
Extraction Date: 12/18/21 15:38
Cleanup Method: EPA 3620B
Cleanup Date: 12/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-04 Batch: WG1585066-1						
Delta-BHC	ND		ug/kg	1.55	0.303	A
Lindane	ND		ug/kg	0.646	0.288	A
Alpha-BHC	ND		ug/kg	0.646	0.183	A
Beta-BHC	ND		ug/kg	1.55	0.587	A
Heptachlor	ND		ug/kg	0.775	0.347	A
Aldrin	ND		ug/kg	1.55	0.546	A
Heptachlor epoxide	ND		ug/kg	2.90	0.872	A
Endrin	ND		ug/kg	0.646	0.265	A
Endrin aldehyde	ND		ug/kg	1.94	0.678	A
Endrin ketone	ND		ug/kg	1.55	0.399	A
Dieldrin	ND		ug/kg	0.968	0.484	A
4,4'-DDE	ND		ug/kg	1.55	0.358	A
4,4'-DDD	ND		ug/kg	1.55	0.553	A
4,4'-DDT	ND		ug/kg	2.90	1.24	A
Endosulfan I	ND		ug/kg	1.55	0.366	A
Endosulfan II	ND		ug/kg	1.55	0.518	A
Endosulfan sulfate	ND		ug/kg	0.646	0.307	A
Methoxychlor	ND		ug/kg	2.90	0.904	A
Toxaphene	ND		ug/kg	29.0	8.13	A
cis-Chlordane	ND		ug/kg	1.94	0.540	A
trans-Chlordane	ND		ug/kg	1.94	0.511	A
Chlordane	ND		ug/kg	12.9	5.13	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/20/21 18:44
Analyst: EJL

Extraction Method: EPA 3546
Extraction Date: 12/18/21 15:38
Cleanup Method: EPA 3620B
Cleanup Date: 12/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-04 Batch: WG1585066-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	106		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2167681

Report Date: 12/27/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Pesticides by EPA 1311 - Westborough Lab Associated sample(s): 05 Batch: WG1584385-2 WG1584385-3									
Lindane	120		120		30-150	0		20	A
Heptachlor	125		127		30-150	2		20	A
Heptachlor epoxide	127		131		30-150	3		20	A
Endrin	130		134		30-150	3		20	A
Methoxychlor	136		141		30-150	4		20	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	105		104		30-150	A
Decachlorobiphenyl	128		127		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		93		30-150	B
Decachlorobiphenyl	95		95		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2167681

Report Date: 12/27/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Herbicides by EPA 1311 - Westborough Lab Associated sample(s): 05 Batch: WG1584456-2 WG1584456-3									
2,4-D	113		135		30-150	18		25	A
2,4,5-TP (Silvex)	66		81		30-150	20		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	88		117		30-150	A
DCAA	94		90		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2167681

Report Date: 12/27/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1585066-2 WG1585066-3									
Delta-BHC	64		65		30-150	2		30	A
Lindane	90		92		30-150	2		30	A
Alpha-BHC	83		85		30-150	2		30	A
Beta-BHC	84		87		30-150	4		30	A
Heptachlor	94		96		30-150	2		30	A
Aldrin	86		90		30-150	5		30	A
Heptachlor epoxide	75		78		30-150	4		30	A
Endrin	90		94		30-150	4		30	A
Endrin aldehyde	64		65		30-150	2		30	A
Endrin ketone	95		98		30-150	3		30	A
Dieldrin	93		98		30-150	5		30	A
4,4'-DDE	82		87		30-150	6		30	A
4,4'-DDD	94		99		30-150	5		30	A
4,4'-DDT	96		98		30-150	2		30	A
Endosulfan I	80		85		30-150	6		30	A
Endosulfan II	90		94		30-150	4		30	A
Endosulfan sulfate	78		80		30-150	3		30	A
Methoxychlor	97		101		30-150	4		30	A
cis-Chlordane	73		76		30-150	4		30	A
trans-Chlordane	84		93		30-150	10		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2167681

Report Date: 12/27/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1585066-2 WG1585066-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		75		30-150	A
Decachlorobiphenyl	101		105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		80		30-150	B
Decachlorobiphenyl	104		108		30-150	B

METALS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-01
Client ID: SB19 1-3'
Sample Location: MANHATTAN, NY
Date Collected: 12/09/21 08:30
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1920		mg/kg	8.07	2.18	2	12/21/21 08:50	12/23/21 20:32	EPA 3050B	1,6010D	EW
Antimony, Total	0.565	J	mg/kg	4.04	0.307	2	12/21/21 08:50	12/23/21 20:32	EPA 3050B	1,6010D	EW
Arsenic, Total	1.72		mg/kg	0.807	0.168	2	12/21/21 08:50	12/23/21 20:32	EPA 3050B	1,6010D	EW
Barium, Total	20.7		mg/kg	0.807	0.140	2	12/21/21 08:50	12/23/21 20:32	EPA 3050B	1,6010D	EW
Beryllium, Total	0.105	J	mg/kg	0.404	0.027	2	12/21/21 08:50	12/23/21 20:32	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.807	0.079	2	12/21/21 08:50	12/23/21 20:32	EPA 3050B	1,6010D	EW
Calcium, Total	3070		mg/kg	8.07	2.82	2	12/21/21 08:50	12/23/21 20:32	EPA 3050B	1,6010D	EW
Chromium, Total	6.93		mg/kg	0.807	0.078	2	12/21/21 08:50	12/23/21 20:32	EPA 3050B	1,6010D	EW
Cobalt, Total	2.58		mg/kg	1.61	0.134	2	12/21/21 08:50	12/23/21 20:32	EPA 3050B	1,6010D	EW
Copper, Total	8.34		mg/kg	0.807	0.208	2	12/21/21 08:50	12/23/21 20:32	EPA 3050B	1,6010D	EW
Iron, Total	4580		mg/kg	4.04	0.729	2	12/21/21 08:50	12/23/21 20:32	EPA 3050B	1,6010D	EW
Lead, Total	22.0		mg/kg	4.04	0.216	2	12/21/21 08:50	12/23/21 20:32	EPA 3050B	1,6010D	EW
Magnesium, Total	1800		mg/kg	8.07	1.24	2	12/21/21 08:50	12/23/21 20:32	EPA 3050B	1,6010D	EW
Manganese, Total	96.1		mg/kg	0.807	0.128	2	12/21/21 08:50	12/23/21 20:32	EPA 3050B	1,6010D	EW
Mercury, Total	0.081		mg/kg	0.065	0.043	1	12/21/21 08:15	12/22/21 13:21	EPA 7471B	1,7471B	AC
Nickel, Total	12.1		mg/kg	2.02	0.195	2	12/21/21 08:50	12/23/21 20:32	EPA 3050B	1,6010D	EW
Potassium, Total	532		mg/kg	202	11.6	2	12/21/21 08:50	12/23/21 20:32	EPA 3050B	1,6010D	EW
Selenium, Total	0.282	J	mg/kg	1.61	0.208	2	12/21/21 08:50	12/23/21 20:32	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.807	0.228	2	12/21/21 08:50	12/23/21 20:32	EPA 3050B	1,6010D	EW
Sodium, Total	82.3	J	mg/kg	161	2.54	2	12/21/21 08:50	12/23/21 20:32	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.61	0.254	2	12/21/21 08:50	12/23/21 20:32	EPA 3050B	1,6010D	EW
Vanadium, Total	6.93		mg/kg	0.807	0.164	2	12/21/21 08:50	12/23/21 20:32	EPA 3050B	1,6010D	EW
Zinc, Total	27.5		mg/kg	4.04	0.236	2	12/21/21 08:50	12/23/21 20:32	EPA 3050B	1,6010D	EW

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-02
Client ID: SB18 1-4'
Sample Location: MANHATTAN, NY
Date Collected: 12/09/21 09:45
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 98%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1360		mg/kg	7.92	2.14	2	12/21/21 08:50	12/23/21 20:36	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	3.96	0.301	2	12/21/21 08:50	12/23/21 20:36	EPA 3050B	1,6010D	EW
Arsenic, Total	1.39		mg/kg	0.792	0.165	2	12/21/21 08:50	12/23/21 20:36	EPA 3050B	1,6010D	EW
Barium, Total	9.47		mg/kg	0.792	0.138	2	12/21/21 08:50	12/23/21 20:36	EPA 3050B	1,6010D	EW
Beryllium, Total	0.071	J	mg/kg	0.396	0.026	2	12/21/21 08:50	12/23/21 20:36	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.792	0.078	2	12/21/21 08:50	12/23/21 20:36	EPA 3050B	1,6010D	EW
Calcium, Total	1060		mg/kg	7.92	2.77	2	12/21/21 08:50	12/23/21 20:36	EPA 3050B	1,6010D	EW
Chromium, Total	4.71		mg/kg	0.792	0.076	2	12/21/21 08:50	12/23/21 20:36	EPA 3050B	1,6010D	EW
Cobalt, Total	1.90		mg/kg	1.58	0.132	2	12/21/21 08:50	12/23/21 20:36	EPA 3050B	1,6010D	EW
Copper, Total	3.92		mg/kg	0.792	0.204	2	12/21/21 08:50	12/23/21 20:36	EPA 3050B	1,6010D	EW
Iron, Total	3470		mg/kg	3.96	0.716	2	12/21/21 08:50	12/23/21 20:36	EPA 3050B	1,6010D	EW
Lead, Total	8.96		mg/kg	3.96	0.212	2	12/21/21 08:50	12/23/21 20:36	EPA 3050B	1,6010D	EW
Magnesium, Total	1020		mg/kg	7.92	1.22	2	12/21/21 08:50	12/23/21 20:36	EPA 3050B	1,6010D	EW
Manganese, Total	71.9		mg/kg	0.792	0.126	2	12/21/21 08:50	12/23/21 20:36	EPA 3050B	1,6010D	EW
Mercury, Total	0.075		mg/kg	0.064	0.042	1	12/21/21 08:15	12/22/21 13:31	EPA 7471B	1,7471B	AC
Nickel, Total	7.05		mg/kg	1.98	0.192	2	12/21/21 08:50	12/23/21 20:36	EPA 3050B	1,6010D	EW
Potassium, Total	352		mg/kg	198	11.4	2	12/21/21 08:50	12/23/21 20:36	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.58	0.204	2	12/21/21 08:50	12/23/21 20:36	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.792	0.224	2	12/21/21 08:50	12/23/21 20:36	EPA 3050B	1,6010D	EW
Sodium, Total	68.2	J	mg/kg	158	2.50	2	12/21/21 08:50	12/23/21 20:36	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.58	0.250	2	12/21/21 08:50	12/23/21 20:36	EPA 3050B	1,6010D	EW
Vanadium, Total	4.97		mg/kg	0.792	0.161	2	12/21/21 08:50	12/23/21 20:36	EPA 3050B	1,6010D	EW
Zinc, Total	14.5		mg/kg	3.96	0.232	2	12/21/21 08:50	12/23/21 20:36	EPA 3050B	1,6010D	EW

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-03
Client ID: SB18 11-13'
Sample Location: MANHATTAN, NY
Date Collected: 12/09/21 10:00
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1050		mg/kg	8.06	2.18	2	12/21/21 08:50	12/23/21 20:41	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.03	0.306	2	12/21/21 08:50	12/23/21 20:41	EPA 3050B	1,6010D	EW
Arsenic, Total	1.29		mg/kg	0.806	0.168	2	12/21/21 08:50	12/23/21 20:41	EPA 3050B	1,6010D	EW
Barium, Total	3.75		mg/kg	0.806	0.140	2	12/21/21 08:50	12/23/21 20:41	EPA 3050B	1,6010D	EW
Beryllium, Total	0.056	J	mg/kg	0.403	0.027	2	12/21/21 08:50	12/23/21 20:41	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.806	0.079	2	12/21/21 08:50	12/23/21 20:41	EPA 3050B	1,6010D	EW
Calcium, Total	1770		mg/kg	8.06	2.82	2	12/21/21 08:50	12/23/21 20:41	EPA 3050B	1,6010D	EW
Chromium, Total	11.2		mg/kg	0.806	0.077	2	12/21/21 08:50	12/23/21 20:41	EPA 3050B	1,6010D	EW
Cobalt, Total	1.47	J	mg/kg	1.61	0.134	2	12/21/21 08:50	12/23/21 20:41	EPA 3050B	1,6010D	EW
Copper, Total	3.22		mg/kg	0.806	0.208	2	12/21/21 08:50	12/23/21 20:41	EPA 3050B	1,6010D	EW
Iron, Total	3450		mg/kg	4.03	0.728	2	12/21/21 08:50	12/23/21 20:41	EPA 3050B	1,6010D	EW
Lead, Total	4.35		mg/kg	4.03	0.216	2	12/21/21 08:50	12/23/21 20:41	EPA 3050B	1,6010D	EW
Magnesium, Total	649		mg/kg	8.06	1.24	2	12/21/21 08:50	12/23/21 20:41	EPA 3050B	1,6010D	EW
Manganese, Total	64.1		mg/kg	0.806	0.128	2	12/21/21 08:50	12/23/21 20:41	EPA 3050B	1,6010D	EW
Mercury, Total	ND		mg/kg	0.065	0.042	1	12/21/21 08:15	12/22/21 13:34	EPA 7471B	1,7471B	AC
Nickel, Total	4.43		mg/kg	2.02	0.195	2	12/21/21 08:50	12/23/21 20:41	EPA 3050B	1,6010D	EW
Potassium, Total	244		mg/kg	202	11.6	2	12/21/21 08:50	12/23/21 20:41	EPA 3050B	1,6010D	EW
Selenium, Total	0.338	J	mg/kg	1.61	0.208	2	12/21/21 08:50	12/23/21 20:41	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.806	0.228	2	12/21/21 08:50	12/23/21 20:41	EPA 3050B	1,6010D	EW
Sodium, Total	52.5	J	mg/kg	161	2.54	2	12/21/21 08:50	12/23/21 20:41	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.61	0.254	2	12/21/21 08:50	12/23/21 20:41	EPA 3050B	1,6010D	EW
Vanadium, Total	3.96		mg/kg	0.806	0.164	2	12/21/21 08:50	12/23/21 20:41	EPA 3050B	1,6010D	EW
Zinc, Total	8.16		mg/kg	4.03	0.236	2	12/21/21 08:50	12/23/21 20:41	EPA 3050B	1,6010D	EW

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-04
Client ID: SB17 1-3.5'
Sample Location: MANHATTAN, NY
Date Collected: 12/09/21 11:15
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1320		mg/kg	8.10	2.18	2	12/21/21 08:50	12/23/21 20:45	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.05	0.308	2	12/21/21 08:50	12/23/21 20:45	EPA 3050B	1,6010D	EW
Arsenic, Total	1.55		mg/kg	0.810	0.168	2	12/21/21 08:50	12/23/21 20:45	EPA 3050B	1,6010D	EW
Barium, Total	9.00		mg/kg	0.810	0.141	2	12/21/21 08:50	12/23/21 20:45	EPA 3050B	1,6010D	EW
Beryllium, Total	0.073	J	mg/kg	0.405	0.027	2	12/21/21 08:50	12/23/21 20:45	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.810	0.079	2	12/21/21 08:50	12/23/21 20:45	EPA 3050B	1,6010D	EW
Calcium, Total	2500		mg/kg	8.10	2.83	2	12/21/21 08:50	12/23/21 20:45	EPA 3050B	1,6010D	EW
Chromium, Total	5.36		mg/kg	0.810	0.078	2	12/21/21 08:50	12/23/21 20:45	EPA 3050B	1,6010D	EW
Cobalt, Total	1.72		mg/kg	1.62	0.134	2	12/21/21 08:50	12/23/21 20:45	EPA 3050B	1,6010D	EW
Copper, Total	4.72		mg/kg	0.810	0.209	2	12/21/21 08:50	12/23/21 20:45	EPA 3050B	1,6010D	EW
Iron, Total	3550		mg/kg	4.05	0.731	2	12/21/21 08:50	12/23/21 20:45	EPA 3050B	1,6010D	EW
Lead, Total	10.2		mg/kg	4.05	0.217	2	12/21/21 08:50	12/23/21 20:45	EPA 3050B	1,6010D	EW
Magnesium, Total	935		mg/kg	8.10	1.25	2	12/21/21 08:50	12/23/21 20:45	EPA 3050B	1,6010D	EW
Manganese, Total	90.6		mg/kg	0.810	0.129	2	12/21/21 08:50	12/23/21 20:45	EPA 3050B	1,6010D	EW
Mercury, Total	0.050	J	mg/kg	0.067	0.044	1	12/21/21 08:15	12/22/21 13:37	EPA 7471B	1,7471B	AC
Nickel, Total	4.76		mg/kg	2.02	0.196	2	12/21/21 08:50	12/23/21 20:45	EPA 3050B	1,6010D	EW
Potassium, Total	310		mg/kg	202	11.6	2	12/21/21 08:50	12/23/21 20:45	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.62	0.209	2	12/21/21 08:50	12/23/21 20:45	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.810	0.229	2	12/21/21 08:50	12/23/21 20:45	EPA 3050B	1,6010D	EW
Sodium, Total	70.3	J	mg/kg	162	2.55	2	12/21/21 08:50	12/23/21 20:45	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.62	0.255	2	12/21/21 08:50	12/23/21 20:45	EPA 3050B	1,6010D	EW
Vanadium, Total	4.78		mg/kg	0.810	0.164	2	12/21/21 08:50	12/23/21 20:45	EPA 3050B	1,6010D	EW
Zinc, Total	17.2		mg/kg	4.05	0.237	2	12/21/21 08:50	12/23/21 20:45	EPA 3050B	1,6010D	EW

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-05
Client ID: COMP #5 (19,18)
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil

Date Collected: 12/09/21 10:10
Date Received: 12/09/21
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 12/13/21 06:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	0.023	J	mg/l	1.00	0.019	1	12/21/21 10:20	12/23/21 00:14	EPA 3015	1,6010D	MC
Barium, TCLP	0.213	J	mg/l	0.500	0.021	1	12/21/21 10:20	12/23/21 00:14	EPA 3015	1,6010D	MC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	12/21/21 10:20	12/23/21 00:14	EPA 3015	1,6010D	MC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	12/21/21 10:20	12/23/21 00:14	EPA 3015	1,6010D	MC
Lead, TCLP	ND		mg/l	0.500	0.027	1	12/21/21 10:20	12/23/21 00:14	EPA 3015	1,6010D	MC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	12/21/21 10:32	12/21/21 15:19	EPA 7470A	1,7470A	AC
Selenium, TCLP	ND		mg/l	0.500	0.035	1	12/21/21 10:20	12/23/21 00:14	EPA 3015	1,6010D	MC
Silver, TCLP	ND		mg/l	0.100	0.028	1	12/21/21 10:20	12/23/21 00:14	EPA 3015	1,6010D	MC

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1585855-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	12/21/21 08:15	12/22/21 11:46	1,7471B	AC

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1585857-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	12/21/21 08:50	12/23/21 19:11	1,6010D	EW
Antimony, Total	ND		mg/kg	2.00	0.152	1	12/21/21 08:50	12/23/21 19:11	1,6010D	EW
Arsenic, Total	0.168	J	mg/kg	0.400	0.083	1	12/21/21 08:50	12/23/21 19:11	1,6010D	EW
Barium, Total	ND		mg/kg	0.400	0.070	1	12/21/21 08:50	12/23/21 19:11	1,6010D	EW
Beryllium, Total	ND		mg/kg	0.200	0.013	1	12/21/21 08:50	12/23/21 19:11	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.400	0.039	1	12/21/21 08:50	12/23/21 19:11	1,6010D	EW
Calcium, Total	ND		mg/kg	4.00	1.40	1	12/21/21 08:50	12/23/21 19:11	1,6010D	EW
Chromium, Total	ND		mg/kg	0.400	0.038	1	12/21/21 08:50	12/23/21 19:11	1,6010D	EW
Cobalt, Total	ND		mg/kg	0.800	0.066	1	12/21/21 08:50	12/23/21 19:11	1,6010D	EW
Copper, Total	ND		mg/kg	0.400	0.103	1	12/21/21 08:50	12/23/21 19:11	1,6010D	EW
Iron, Total	2.84		mg/kg	2.00	0.361	1	12/21/21 08:50	12/23/21 19:11	1,6010D	EW
Lead, Total	ND		mg/kg	2.00	0.107	1	12/21/21 08:50	12/23/21 19:11	1,6010D	EW
Magnesium, Total	ND		mg/kg	4.00	0.616	1	12/21/21 08:50	12/23/21 19:11	1,6010D	EW
Manganese, Total	ND		mg/kg	0.400	0.064	1	12/21/21 08:50	12/23/21 19:11	1,6010D	EW
Nickel, Total	ND		mg/kg	1.00	0.097	1	12/21/21 08:50	12/23/21 19:11	1,6010D	EW
Potassium, Total	ND		mg/kg	100	5.76	1	12/21/21 08:50	12/23/21 19:11	1,6010D	EW
Selenium, Total	ND		mg/kg	0.800	0.103	1	12/21/21 08:50	12/23/21 19:11	1,6010D	EW
Silver, Total	ND		mg/kg	0.400	0.113	1	12/21/21 08:50	12/23/21 19:11	1,6010D	EW
Sodium, Total	3.14	J	mg/kg	80.0	1.26	1	12/21/21 08:50	12/23/21 19:11	1,6010D	EW
Thallium, Total	ND		mg/kg	0.800	0.126	1	12/21/21 08:50	12/23/21 19:11	1,6010D	EW
Vanadium, Total	ND		mg/kg	0.400	0.081	1	12/21/21 08:50	12/23/21 19:11	1,6010D	EW
Zinc, Total	ND		mg/kg	2.00	0.117	1	12/21/21 08:50	12/23/21 19:11	1,6010D	EW

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 05 Batch: WG1585872-1										
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	12/21/21 10:20	12/22/21 23:59	1,6010D	MC
Barium, TCLP	ND		mg/l	0.500	0.021	1	12/21/21 10:20	12/22/21 23:59	1,6010D	MC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	12/21/21 10:20	12/22/21 23:59	1,6010D	MC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	12/21/21 10:20	12/22/21 23:59	1,6010D	MC
Lead, TCLP	ND		mg/l	0.500	0.027	1	12/21/21 10:20	12/22/21 23:59	1,6010D	MC
Selenium, TCLP	ND		mg/l	0.500	0.035	1	12/21/21 10:20	12/22/21 23:59	1,6010D	MC
Silver, TCLP	ND		mg/l	0.100	0.028	1	12/21/21 10:20	12/22/21 23:59	1,6010D	MC

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 12/11/21 15:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 05 Batch: WG1585875-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	12/21/21 10:32	12/21/21 14:26	1,7470A	AC

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 12/11/21 15:56

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2167681

Report Date: 12/27/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1585855-2 SRM Lot Number: D113-540								
Mercury, Total	85		-		60-140	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2167681

Report Date: 12/27/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1585857-2 SRM Lot Number: D113-540					
Aluminum, Total	58	-	51-149	-	
Antimony, Total	122	-	20-250	-	
Arsenic, Total	82	-	70-130	-	
Barium, Total	78	-	75-125	-	
Beryllium, Total	90	-	75-125	-	
Cadmium, Total	82	-	75-125	-	
Calcium, Total	78	-	73-128	-	
Chromium, Total	80	-	70-130	-	
Cobalt, Total	82	-	75-125	-	
Copper, Total	77	-	75-125	-	
Iron, Total	77	-	36-164	-	
Lead, Total	79	-	72-128	-	
Magnesium, Total	74	-	63-138	-	
Manganese, Total	83	-	77-123	-	
Nickel, Total	81	-	70-130	-	
Potassium, Total	71	-	59-141	-	
Selenium, Total	82	-	66-134	-	
Silver, Total	79	-	70-131	-	
Sodium, Total	94	-	35-164	-	
Thallium, Total	82	-	70-130	-	
Vanadium, Total	80	-	74-126	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2167681

Report Date: 12/27/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1585857-2 SRM Lot Number: D113-540					
Zinc, Total	79	-	70-130	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05 Batch: WG1585872-2					
Arsenic, TCLP	111	-	75-125	-	20
Barium, TCLP	102	-	75-125	-	20
Cadmium, TCLP	101	-	75-125	-	20
Chromium, TCLP	100	-	75-125	-	20
Lead, TCLP	97	-	75-125	-	20
Selenium, TCLP	109	-	75-125	-	20
Silver, TCLP	101	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05 Batch: WG1585875-2					
Mercury, TCLP	101	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2167681
Report Date: 12/27/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1585855-3 WG1585855-4 QC Sample: L2167733-03 Client ID: MS Sample												
Mercury, Total	ND	0.134	0.155	116		0.206	**155**	Q	80-120	**28**	Q	20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2167681
Report Date: 12/27/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1585857-3 QC Sample: L2167578-01 Client ID: MS Sample										
Aluminum, Total	14900	208	16000	**530**	Q	-	-	75-125	-	20
Antimony, Total	ND	51.9	37.7	**73**	Q	-	-	75-125	-	20
Arsenic, Total	26.4	12.5	32.6	**50**	Q	-	-	75-125	-	20
Barium, Total	235	208	406	82		-	-	75-125	-	20
Beryllium, Total	0.211J	5.19	4.23	81		-	-	75-125	-	20
Cadmium, Total	0.854	5.5	4.66	**69**	Q	-	-	75-125	-	20
Calcium, Total	25000	1040	26900	**183**	Q	-	-	75-125	-	20
Chromium, Total	52.6	20.8	54.1	**7**	Q	-	-	75-125	-	20
Cobalt, Total	3.06	51.9	38.3	**68**	Q	-	-	75-125	-	20
Copper, Total	223	26	263	**154**	Q	-	-	75-125	-	20
Iron, Total	9120	104	9520	**385**	Q	-	-	75-125	-	20
Lead, Total	48.0	55	87.3	**71**	Q	-	-	75-125	-	20
Magnesium, Total	9450	1040	10800	**130**	Q	-	-	75-125	-	20
Manganese, Total	235	51.9	279	85		-	-	75-125	-	20
Nickel, Total	21.4	51.9	54.8	**64**	Q	-	-	75-125	-	20
Potassium, Total	2880	1040	3870	95		-	-	75-125	-	20
Selenium, Total	3.29	12.5	14.3	88		-	-	75-125	-	20
Silver, Total	1.14	31.2	26.8	82		-	-	75-125	-	20
Sodium, Total	808	1040	1690	85		-	-	75-125	-	20
Thallium, Total	ND	12.5	7.08	**57**	Q	-	-	75-125	-	20
Vanadium, Total	8.87	51.9	49.8	79		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2167681
Report Date: 12/27/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1585857-3 QC Sample: L2167578-01 Client ID: MS Sample									
Zinc, Total	353	51.9	402	94	-	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1585872-3 QC Sample: L2167598-01 Client ID: MS Sample									
Arsenic, TCLP	0.050J	1.2	1.38	115	-	-	75-125	-	20
Barium, TCLP	ND	20	20.6	103	-	-	75-125	-	20
Cadmium, TCLP	ND	0.53	0.538	102	-	-	75-125	-	20
Chromium, TCLP	ND	2	2.00	100	-	-	75-125	-	20
Lead, TCLP	ND	5.3	5.18	98	-	-	75-125	-	20
Selenium, TCLP	ND	1.2	1.28	107	-	-	75-125	-	20
Silver, TCLP	ND	0.5	0.517	103	-	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1585875-3 QC Sample: L2167598-01 Client ID: MS Sample									
Mercury, TCLP	ND	0.025	0.0257	103	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2167681
Report Date: 12/27/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1585857-4 QC Sample: L2167578-01 Client ID: DUP Sample						
Arsenic, Total	26.4	22.7	mg/kg	15		20
Cadmium, Total	0.854	0.847	mg/kg	1		20
Chromium, Total	52.6	42.8	mg/kg	**21**	Q	20
Copper, Total	223	223	mg/kg	0		20
Lead, Total	48.0	49.1	mg/kg	2		20
Nickel, Total	21.4	20.6	mg/kg	4		20
Potassium, Total	2880	2920	mg/kg	1		20
Selenium, Total	3.29	3.39	mg/kg	3		20
Zinc, Total	353	355	mg/kg	1		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1585872-4 QC Sample: L2167598-01 Client ID: DUP Sample						
Arsenic, TCLP	0.050J	0.035J	mg/l	NC		20
Barium, TCLP	ND	ND	mg/l	NC		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	ND	ND	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1585875-4 QC Sample: L2167598-01 Client ID: DUP Sample						
Mercury, TCLP	ND	ND	mg/l	NC		20

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2167681
Report Date: 12/27/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1585857-6 QC Sample: L2167578-01 Client ID: DUP Sample						
Arsenic, Total	26.4	30.7	mg/kg	16		20
Chromium, Total	52.6	64.6	mg/kg	**23**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-05
Client ID: COMP #5 (19,18)
Sample Location: MANHATTAN, NY
Date Collected: 12/09/21 10:10
Date Received: 12/09/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Sand
Particle Size:	Fine
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	12/23/21 09:00	1,1030	IS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-01
Client ID: SB19 1-3'
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil
Date Collected: 12/09/21 08:30
Date Received: 12/09/21
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	95.8		%	0.100	NA	1	-	12/10/21 10:29	121,2540G	RI
Cyanide, Total	ND		mg/kg	0.98	0.21	1	12/16/21 11:10	12/16/21 15:13	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.835	0.167	1	12/22/21 15:53	12/23/21 09:15	1,7196A	JT

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-02
Client ID: SB18 1-4'
Sample Location: MANHATTAN, NY

Date Collected: 12/09/21 09:45
Date Received: 12/09/21
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	98.2		%	0.100	NA	1	-	12/10/21 10:29	121,2540G	RI
Cyanide, Total	ND		mg/kg	0.99	0.21	1	12/21/21 11:25	12/21/21 16:09	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.815	0.163	1	12/22/21 15:53	12/23/21 09:15	1,7196A	JT

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-03
Client ID: SB18 11-13'
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil
Date Collected: 12/09/21 10:00
Date Received: 12/09/21
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	96.7		%	0.100	NA	1	-	12/10/21 10:29	121,2540G	RI
Cyanide, Total	ND		mg/kg	0.95	0.20	1	12/21/21 11:25	12/21/21 16:13	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.827	0.165	1	12/22/21 15:53	12/23/21 09:15	1,7196A	JT

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-04
Client ID: SB17 1-3.5'
Sample Location: MANHATTAN, NY

Date Collected: 12/09/21 11:15
Date Received: 12/09/21
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	94.3		%	0.100	NA	1	-	12/10/21 10:29	121,2540G	RI
Cyanide, Total	0.48	J	mg/kg	1.0	0.22	1	12/21/21 11:25	12/21/21 16:16	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.848	0.170	1	12/22/21 15:53	12/23/21 09:15	1,7196A	JT

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2167681
Report Date: 12/27/21

SAMPLE RESULTS

Lab ID: L2167681-05
Client ID: COMP #5 (19,18)
Sample Location: MANHATTAN, NY

Date Collected: 12/09/21 10:10
Date Received: 12/09/21
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										
pH (H)	8.3		SU	-	NA	1	-	12/17/21 19:16	1,9045D	AS
Cyanide, Reactive	ND		mg/kg	10	10.	1	12/21/21 16:20	12/21/21 18:45	125,7.3	MJ
Sulfide, Reactive	ND		mg/kg	10	10.	1	12/21/21 16:20	12/21/21 18:05	125,7.3	MJ

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2167681
Report Date: 12/27/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1584039-1										
Cyanide, Total	ND		mg/kg	0.91	0.19	1	12/16/21 11:10	12/16/21 15:00	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 02-04 Batch: WG1585925-1										
Cyanide, Total	ND		mg/kg	1.0	0.21	1	12/21/21 11:25	12/21/21 15:41	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 05 Batch: WG1586013-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	12/21/21 16:20	12/21/21 18:03	125,7.3	MJ
General Chemistry - Westborough Lab for sample(s): 05 Batch: WG1586141-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	12/21/21 16:20	12/21/21 18:43	125,7.3	MJ
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1586335-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	12/22/21 15:53	12/23/21 09:15	1,7196A	JT

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2167681

Report Date: 12/27/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1584039-2 WG1584039-3								
Cyanide, Total	**65**	Q	**68**	Q	80-120	15		35
General Chemistry - Westborough Lab Associated sample(s): 05 Batch: WG1584817-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 02-04 Batch: WG1585925-2 WG1585925-3								
Cyanide, Total	104		91		80-120	13		35
General Chemistry - Westborough Lab Associated sample(s): 05 Batch: WG1586013-2								
Sulfide, Reactive	80		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 05 Batch: WG1586141-2								
Cyanide, Reactive	64		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1586335-2								
Chromium, Hexavalent	99		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2167681
Report Date: 12/27/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1584039-4 WG1584039-5 QC Sample: L2167542-13 Client ID: MS Sample												
Cyanide, Total	ND	12	18	**150**	Q	13	99		75-125	32		35
General Chemistry - Westborough Lab Associated sample(s): 02-04 QC Batch ID: WG1585925-4 WG1585925-5 QC Sample: L2167681-02 Client ID: SB18 1-4'												
Cyanide, Total	ND	10	11	110		11	110		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1586335-4 QC Sample: L2167681-03 Client ID: SB18 11-13'												
Chromium, Hexavalent	ND	947	805	85		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2167681
Report Date: 12/27/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1581536-1 QC Sample: L2167911-01 Client ID: DUP Sample						
Solids, Total	83.5	84.5	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1584817-2 QC Sample: L2169148-01 Client ID: DUP Sample						
pH	8.1	8.3	SU	2		5
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1586013-3 QC Sample: L2167360-01 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1586141-3 QC Sample: L2167360-01 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1586335-6 QC Sample: L2167681-03 Client ID: SB18 11-13'						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2167681
Report Date: 12/27/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2167681-01A	Vial MeOH preserved	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2167681-01B	Vial water preserved	A	NA		3.4	Y	Absent	10-DEC-21 02:26	NYTCL-8260HLW(14)
L2167681-01C	Vial water preserved	A	NA		3.4	Y	Absent	10-DEC-21 02:26	NYTCL-8260HLW(14)
L2167681-01D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),K-TI(180),CD-TI(180),NA-TI(180),CA-TI(180)
L2167681-01E	Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2167681-01F	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2167681-01G	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2167681-01H	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2167681-02A	Vial MeOH preserved	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2167681-02B	Vial water preserved	A	NA		3.4	Y	Absent	10-DEC-21 02:26	NYTCL-8260HLW(14)
L2167681-02C	Vial water preserved	A	NA		3.4	Y	Absent	10-DEC-21 02:26	NYTCL-8260HLW(14)
L2167681-02D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),NA-TI(180),CD-TI(180),K-TI(180),CA-TI(180)
L2167681-02E	Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2167681-02F	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2167681-02G	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2167681-02H	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*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(*)
L2167681-03A	Vial MeOH preserved	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2167681-03B	Vial water preserved	A	NA		3.4	Y	Absent	10-DEC-21 02:26	NYTCL-8260HLW(14)
L2167681-03C	Vial water preserved	A	NA		3.4	Y	Absent	10-DEC-21 02:26	NYTCL-8260HLW(14)
L2167681-03D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),CO-TI(180),V-TI(180),MN-TI(180),HG-T(28),FE-TI(180),MG-TI(180),NA-TI(180),CD-TI(180),CA-TI(180),K-TI(180)
L2167681-03E	Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2167681-03F	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2167681-03G	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2167681-03H	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2167681-04A	Vial MeOH preserved	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2167681-04B	Vial water preserved	A	NA		3.4	Y	Absent	10-DEC-21 02:26	NYTCL-8260HLW(14)
L2167681-04C	Vial water preserved	A	NA		3.4	Y	Absent	10-DEC-21 02:26	NYTCL-8260HLW(14)
L2167681-04D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	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),CU-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),K-TI(180),CD-TI(180),NA-TI(180),CA-TI(180)
L2167681-04E	Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2167681-04F	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2167681-04G	Plastic 120ml unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2167681-04H	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2167681-05A	Vial Large Septa unpreserved (4oz)	A	NA		3.4	Y	Absent		TCLP-EXT-ZHE(14)
L2167681-05B	Glass 500ml/16oz unpreserved	A	NA		3.4	Y	Absent		REACTS(14),IGNIT-1030(14),PH-9045(1),REACTCN(14)
L2167681-05T	Amber 1000ml unpreserved Extracts	A	NA		3.4	Y	Absent		TCLP-8270(14),HERB-TCLP*(14),PEST-TCLP*(14)
L2167681-05W	Plastic 120ml HNO3 preserved Extracts	A	NA		3.4	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)

*Values in parentheses indicate holding time in days

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2167681
Report Date: 12/27/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2167681-05X9	Tumble Vessel	A	NA		3.4	Y	Absent		-
L2167681-05Y	Vial unpreserved Extracts	A	NA		3.4	Y	Absent		TCLP-VOA(14)
L2167681-05Z	Vial unpreserved Extracts	A	NA		3.4	Y	Absent		TCLP-VOA(14)

*Values in parentheses indicate holding time in days

Project Name:	BATTERY PARK	**Lab Number:**	L2167681
Project Number:	20-1152	**Report Date:**	12/27/21

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:	BATTERY PARK	**Lab Number:**	L2167681
Project Number:	20-1152	**Report Date:**	12/27/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. 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.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	BATTERY PARK	**Lab Number:**	L2167681
Project Number:	20-1152	**Report Date:**	12/27/21

Data Qualifiers

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.)

Project Name:	BATTERY PARK	**Lab Number:**	L2167681
Project Number:	20-1152	**Report Date:**	12/27/21

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.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

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 1

Date Rec'd in Lab: 12/9/21

ALPHA Job #: L2167681

Client Information
Client: Matrix
Address: 333 W 39th St New York NY
Phone:
Fax:
Email: BCrespi@MNWE.com

Project Information
Project Name: Battery Park
Project Location: Manhattan NY
Project #: 20-1152
(Use Project name as Project #) ☐
Project Manager: Brian Crespi
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

Billing Information
☐ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

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.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOC	TCL SVOC	TCL PCB	TCL Metals	Cyanide / hexachromium	Full TCLP	RCRA Characteristics	Total Bottle
L2167681-01	SB19 1-3'	12-9-21	08:30	S	P.4	X	X	X	X	X			
-02	SB18 1-4'		09:45			X	X	X	X	X			
-03	SB 18 11-13'		10:00			X	X	X	X	X			
-04	SB 17 1-3.5'		11:15			X	X	X	X	X			
-05	Comp #5 (19, 18)	↓	10:10	↓	↓						X	X	

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

Container Type													
Preservative													

Relinquished By:	Date/Time	Received By:	Date/Time
	12-9-21 1300	(AM)	12/9/21 1300
(AM)	12/9/21 1455	Paul Mazzella	12/9/21 1600
Paul Mazzella	12/9/21		12/9/21

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)

ANALYTICAL REPORT

Lab Number:	L2168050
Client:	Matrix New World Engineering, Inc. 333 West 39th Street, Second Floor New York City, NY 10018
ATTN:	Brian Crespi
Phone:	(212) 324-4251
Project Name:	BATTERY PARK
Project Number:	20-1152
Report Date:	12/28/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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

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

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168050
Report Date: 12/28/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2168050-01	SB11 1-3'	SOIL	MANHATTAN, NY	12/10/21 11:45	12/10/21
L2168050-02	SB13 1-3'	SOIL	MANHATTAN, NY	12/10/21 09:15	12/10/21
L2168050-03	SB13 1-3' DUP	SOIL	MANHATTAN, NY	12/10/21 09:30	12/10/21
L2168050-04	SB13 5.5-7.5'	SOIL	MANHATTAN, NY	12/10/21 09:45	12/10/21
L2168050-05	SB14 2-4'	SOIL	MANHATTAN, NY	12/10/21 11:00	12/10/21
L2168050-06	COMP #6 (13,14,17)	SOIL	MANHATTAN, NY	12/10/21 11:30	12/10/21

Project Name:	BATTERY PARK	**Lab Number:**	L2168050
Project Number:	20-1152	**Report Date:**	12/28/21

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:	BATTERY PARK	**Lab Number:**	L2168050
Project Number:	20-1152	**Report Date:**	12/28/21

Case Narrative (continued)

Report Submission

December 28, 2021: This final report includes the results of all requested analyses.

December 27, 2021: This is a preliminary report.

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

Sample Receipt

L2168050-01 through -05: The analysis of Pesticides was performed at the client's request.

Semivolatile Organics

The WG1585286-2/-3 LCS/LCSD recoveries, associated with L2168050-01 through -05, are below the acceptance criteria for benzoic acid (8%/5%); however, it has been identified as a "difficult" analyte. The results of the associated sample are reported.

TCLP Semivolatiles

The WG1584384-2/-3 LCS/LCSD recoveries, associated with L2168050-06, are below the acceptance criteria for pyridine (2%/6%); however, it has been identified as a "difficult" analyte. The results of the associated sample are reported.

Total Metals

L2168050-01 through -05: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

Cyanide, Total

The WG1586547-2 LCS recovery for cyanide, total (77%), associated with L2168050-02 through -04, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168050
Report Date: 12/28/21

Case Narrative (continued)

original analyses are reported.

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: 12/28/21

ORGANICS

VOLATILES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-01
Client ID: SB11 1-3'
Sample Location: MANHATTAN, NY
Date Collected: 12/10/21 11:45
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/19/21 16:52
Analyst: JC
Percent Solids: 98%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.8	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	0.16	J	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	0.80	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
1,3-Dichloropropene, Total	ND		ug/kg	0.58	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.58	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	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	ND		ug/kg	1.2	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	1.2	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

Project Name: BATTERY PARK **Lab Number:** L2168050

Project Number: 20-1152 **Report Date:** 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-01 Date Collected: 12/10/21 11:45

Client ID: SB11 1-3' Date Received: 12/10/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.58	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
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
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.28	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
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.58	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.19	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.6	0.75	1
Acrylonitrile	ND		ug/kg	4.6	1.3	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-01
Client ID: SB11 1-3'
Sample Location: MANHATTAN, NY
Date Collected: 12/10/21 11:45
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.39	1
1,4-Dioxane	ND		ug/kg	93	41.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	100		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-02
Client ID: SB13 1-3'
Sample Location: MANHATTAN, NY
Date Collected: 12/10/21 09:15
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/19/21 17:17
Analyst: JC
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	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	0.23	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	4.0	0.70	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
1,3-Dichloropropene, Total	ND		ug/kg	0.51	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.94	1
Bromomethane	ND		ug/kg	2.0	0.59	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

Project Name: BATTERY PARK **Lab Number:** L2168050

Project Number: 20-1152 **Report Date:** 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-02 Date Collected: 12/10/21 09:15

Client ID: SB13 1-3' Date Received: 12/10/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
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	0.57	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.93	1
Acetone	ND		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.51	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.66	1
Acrylonitrile	ND		ug/kg	4.0	1.2	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-02
Client ID: SB13 1-3'
Sample Location: MANHATTAN, NY
Date Collected: 12/10/21 09:15
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.17	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	81	36.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.1	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	103		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-03
Client ID: SB13 1-3' DUP
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 09:30
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/19/21 17:42
Analyst: JC
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - 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
1,3-Dichloropropene, Total	ND		ug/kg	0.57	0.18	1
1,1-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

Project Name: BATTERY PARK **Lab Number:** L2168050

Project Number: 20-1152 **Report Date:** 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-03 Date Collected: 12/10/21 09:30

Client ID: SB13 1-3' DUP Date Received: 12/10/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1
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	0.64	1
o-Xylene	ND		ug/kg	1.1	0.33	1
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.27	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
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.3	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.57	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.3	0.13	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.5	0.74	1
Acrylonitrile	ND		ug/kg	4.5	1.3	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-03
Client ID: SB13 1-3' DUP
Sample Location: MANHATTAN, NY
Date Collected: 12/10/21 09:30
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	91	40.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	104		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-04
Client ID: SB13 5.5-7.5'
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 09:45
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/19/21 18:07
Analyst: JC
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.9	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	0.16	J	ug/kg	1.8	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.59	0.23	1
Chlorobenzene	ND		ug/kg	0.59	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.82	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.59	0.20	1
Bromodichloromethane	ND		ug/kg	0.59	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.59	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.59	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.59	0.19	1
Bromoform	ND		ug/kg	4.7	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.59	0.20	1
Benzene	ND		ug/kg	0.59	0.20	1
Toluene	ND		ug/kg	1.2	0.64	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.7	1.1	1
Bromomethane	ND		ug/kg	2.4	0.69	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.53	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: BATTERY PARK **Lab Number:** L2168050

Project Number: 20-1152 **Report Date:** 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-04 Date Collected: 12/10/21 09:45

Client ID: SB13 5.5-7.5' Date Received: 12/10/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.59	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.66	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.7	1
Carbon disulfide	ND		ug/kg	12	5.4	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.59	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.22	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.7	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.7	0.77	1
Acrylonitrile	ND		ug/kg	4.7	1.4	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-04
Client ID: SB13 5.5-7.5'
Sample Location: MANHATTAN, NY
Date Collected: 12/10/21 09:45
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.39	1
1,4-Dioxane	ND		ug/kg	94	41.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.45	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.22	1
Ethyl ether	ND		ug/kg	2.4	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	101		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-05
Client ID: SB14 2-4'
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 11:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/19/21 18:32
Analyst: JC
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.2	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	ND		ug/kg	0.62	0.24	1
Chlorobenzene	ND		ug/kg	0.62	0.16	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.86	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.62	0.21	1
Bromodichloromethane	ND		ug/kg	0.62	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.62	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.62	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.62	0.20	1
Bromoform	ND		ug/kg	4.9	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.62	0.20	1
Benzene	ND		ug/kg	0.62	0.20	1
Toluene	ND		ug/kg	1.2	0.67	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.9	1.2	1
Bromomethane	ND		ug/kg	2.5	0.72	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.5	0.56	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1

Project Name: BATTERY PARK **Lab Number:** L2168050

Project Number: 20-1152 **Report Date:** 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-05 Date Collected: 12/10/21 11:00

Client ID: SB14 2-4' Date Received: 12/10/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.62	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.69	1
o-Xylene	ND		ug/kg	1.2	0.36	1
Xylenes, Total	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.5	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.9	1
Carbon disulfide	ND		ug/kg	12	5.6	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	0.16	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.5	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.5	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.62	0.16	1
Bromobenzene	ND		ug/kg	2.5	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.21	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.14	1
o-Chlorotoluene	ND		ug/kg	2.5	0.24	1
p-Chlorotoluene	ND		ug/kg	2.5	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.9	0.80	1
Acrylonitrile	ND		ug/kg	4.9	1.4	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-05
Client ID: SB14 2-4'
Sample Location: MANHATTAN, NY
Date Collected: 12/10/21 11:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.41	1
1,4-Dioxane	ND		ug/kg	99	43.	1
p-Diethylbenzene	ND		ug/kg	2.5	0.22	1
p-Ethyltoluene	ND		ug/kg	2.5	0.47	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.5	0.24	1
Ethyl ether	ND		ug/kg	2.5	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	105		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-06
Client ID: COMP #6 (13,14,17)
Sample Location: MANHATTAN, NY
Date Collected: 12/10/21 11:30
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/13/21 14:59
Analyst: MM

TCLP/SPLP Ext. Date: 12/12/21 14:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**135**	Q	70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	114		70-130
dibromofluoromethane	117		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/13/21 14:18
Analyst: MM
TCLP/SPLP Extraction Date: 12/12/21 14:30
Extraction Date: 12/12/21 14:30

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 06 Batch: WG1582864-5					
Chloroform	ND		ug/l	7.5	2.2
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**141**	Q	70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	114		70-130
dibromofluoromethane	117		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/19/21 15:37
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05 Batch: WG1585497-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/19/21 15:37
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05 Batch: WG1585497-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	0.72	J	ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/19/21 15:37
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05 Batch: WG1585497-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168050
Report Date: 12/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 06 Batch: WG1582864-3 WG1582864-4								
Chloroform	120		110		70-130	9		20
Carbon tetrachloride	100		110		63-132	10		20
Tetrachloroethene	100		110		70-130	10		20
Chlorobenzene	110		110		75-130	0		25
1,2-Dichloroethane	130		110		70-130	17		20
Benzene	120		110		70-130	9		25
Vinyl chloride	120		120		55-140	0		20
1,1-Dichloroethene	110		120		61-145	9		25
Trichloroethene	110		110		70-130	0		25
1,4-Dichlorobenzene	110		110		70-130	0		20
2-Butanone	90		86		63-138	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	120		101		70-130
Toluene-d8	111		99		70-130
4-Bromofluorobenzene	89		96		70-130
dibromofluoromethane	102		105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168050

Report Date: 12/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 Batch: WG1585497-3 WG1585497-4								
Methylene chloride	89		86		70-130	3		30
1,1-Dichloroethane	101		97		70-130	4		30
Chloroform	96		91		70-130	5		30
Carbon tetrachloride	106		102		70-130	4		30
1,2-Dichloropropane	102		96		70-130	6		30
Dibromochloromethane	93		90		70-130	3		30
1,1,2-Trichloroethane	95		92		70-130	3		30
Tetrachloroethene	105		103		70-130	2		30
Chlorobenzene	101		99		70-130	2		30
Trichlorofluoromethane	**69**	Q	**66**	Q	70-139	4		30
1,2-Dichloroethane	96		92		70-130	4		30
1,1,1-Trichloroethane	107		103		70-130	4		30
Bromodichloromethane	104		100		70-130	4		30
trans-1,3-Dichloropropene	111		108		70-130	3		30
cis-1,3-Dichloropropene	108		102		70-130	6		30
1,1-Dichloropropene	106		101		70-130	5		30
Bromoform	91		90		70-130	1		30
1,1,2,2-Tetrachloroethane	96		94		70-130	2		30
Benzene	101		97		70-130	4		30
Toluene	101		100		70-130	1		30
Ethylbenzene	104		102		70-130	2		30
Chloromethane	124		124		52-130	0		30
Bromomethane	62		59		57-147	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168050

Report Date: 12/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 Batch: WG1585497-3 WG1585497-4								
Vinyl chloride	91		89		67-130	2		30
Chloroethane	66		61		50-151	8		30
1,1-Dichloroethene	94		93		65-135	1		30
trans-1,2-Dichloroethene	96		94		70-130	2		30
Trichloroethene	98		95		70-130	3		30
1,2-Dichlorobenzene	100		98		70-130	2		30
1,3-Dichlorobenzene	101		100		70-130	1		30
1,4-Dichlorobenzene	100		98		70-130	2		30
Methyl tert butyl ether	95		93		66-130	2		30
p/m-Xylene	102		100		70-130	2		30
o-Xylene	102		100		70-130	2		30
cis-1,2-Dichloroethene	95		92		70-130	3		30
Dibromomethane	92		87		70-130	6		30
Styrene	90		87		70-130	3		30
Dichlorodifluoromethane	111		111		30-146	0		30
Acetone	100		92		54-140	8		30
Carbon disulfide	99		96		59-130	3		30
2-Butanone	97		92		70-130	5		30
Vinyl acetate	111		108		70-130	3		30
4-Methyl-2-pentanone	96		93		70-130	3		30
1,2,3-Trichloropropane	93		92		68-130	1		30
2-Hexanone	100		96		70-130	4		30
Bromochloromethane	91		84		70-130	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168050

Report Date: 12/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 Batch: WG1585497-3 WG1585497-4								
2,2-Dichloropropane	111		106		70-130	5		30
1,2-Dibromoethane	95		93		70-130	2		30
1,3-Dichloropropane	98		96		69-130	2		30
1,1,1,2-Tetrachloroethane	108		104		70-130	4		30
Bromobenzene	97		95		70-130	2		30
n-Butylbenzene	110		107		70-130	3		30
sec-Butylbenzene	106		105		70-130	1		30
tert-Butylbenzene	105		104		70-130	1		30
o-Chlorotoluene	108		109		70-130	1		30
p-Chlorotoluene	105		105		70-130	0		30
1,2-Dibromo-3-chloropropane	98		95		68-130	3		30
Hexachlorobutadiene	125		120		67-130	4		30
Isopropylbenzene	104		104		70-130	0		30
p-Isopropyltoluene	109		107		70-130	2		30
Naphthalene	100		97		70-130	3		30
Acrylonitrile	98		96		70-130	2		30
n-Propylbenzene	105		104		70-130	1		30
1,2,3-Trichlorobenzene	106		102		70-130	4		30
1,2,4-Trichlorobenzene	110		108		70-130	2		30
1,3,5-Trimethylbenzene	103		104		70-130	1		30
1,2,4-Trimethylbenzene	103		103		70-130	0		30
1,4-Dioxane	97		93		65-136	4		30
p-Diethylbenzene	110		108		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168050

Report Date: 12/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 Batch: WG1585497-3 WG1585497-4								
p-Ethyltoluene	104		103		70-130	1		30
1,2,4,5-Tetramethylbenzene	114		110		70-130	4		30
Ethyl ether	93		91		67-130	2		30
trans-1,4-Dichloro-2-butene	112		108		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		100		70-130
Toluene-d8	104		106		70-130
4-Bromofluorobenzene	109		104		70-130
Dibromofluoromethane	96		93		70-130

SEMIVOLATILES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-01
Client ID: SB11 1-3'
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 11:45
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/22/21 05:06
Analyst: CMM
Percent Solids: 98%

Extraction Method: EPA 3546
Extraction Date: 12/20/21 01:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	130	17.	1
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.	1
Hexachlorobenzene	ND		ug/kg	99	18.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.	1
2-Chloronaphthalene	ND		ug/kg	160	16.	1
1,2-Dichlorobenzene	ND		ug/kg	160	30.	1
1,3-Dichlorobenzene	ND		ug/kg	160	28.	1
1,4-Dichlorobenzene	ND		ug/kg	160	29.	1
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.	1
2,4-Dinitrotoluene	ND		ug/kg	160	33.	1
2,6-Dinitrotoluene	ND		ug/kg	160	28.	1
Fluoranthene	24	J	ug/kg	99	19.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	160	24.	1
Hexachlorocyclopentadiene	ND		ug/kg	470	150	1
Hexachloroethane	ND		ug/kg	130	27.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	160	20.	1
Nitrobenzene	ND		ug/kg	150	24.	1
NDPA/DPA	ND		ug/kg	130	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.	1
Butyl benzyl phthalate	ND		ug/kg	160	42.	1
Di-n-butylphthalate	ND		ug/kg	160	31.	1
Di-n-octylphthalate	ND		ug/kg	160	56.	1

Project Name: BATTERY PARK **Lab Number:** L2168050

Project Number: 20-1152 **Report Date:** 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-01 Date Collected: 12/10/21 11:45

Client ID: SB11 1-3' Date Received: 12/10/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	160	15.	1
Dimethyl phthalate	ND		ug/kg	160	35.	1
Benzo(a)anthracene	ND		ug/kg	99	19.	1
Benzo(a)pyrene	ND		ug/kg	130	40.	1
Benzo(b)fluoranthene	ND		ug/kg	99	28.	1
Benzo(k)fluoranthene	ND		ug/kg	99	26.	1
Chrysene	ND		ug/kg	99	17.	1
Acenaphthylene	ND		ug/kg	130	26.	1
Anthracene	ND		ug/kg	99	32.	1
Benzo(ghi)perylene	ND		ug/kg	130	19.	1
Fluorene	ND		ug/kg	160	16.	1
Phenanthrene	ND		ug/kg	99	20.	1
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.	1
Pyrene	23	J	ug/kg	99	16.	1
Biphenyl	ND		ug/kg	380	38.	1
4-Chloroaniline	ND		ug/kg	160	30.	1
2-Nitroaniline	ND		ug/kg	160	32.	1
3-Nitroaniline	ND		ug/kg	160	31.	1
4-Nitroaniline	ND		ug/kg	160	69.	1
Dibenzofuran	ND		ug/kg	160	16.	1
2-Methylnaphthalene	ND		ug/kg	200	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.	1
Acetophenone	ND		ug/kg	160	20.	1
2,4,6-Trichlorophenol	ND		ug/kg	99	31.	1
p-Chloro-m-cresol	ND		ug/kg	160	25.	1
2-Chlorophenol	ND		ug/kg	160	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	160	55.	1
2-Nitrophenol	ND		ug/kg	360	62.	1
4-Nitrophenol	ND		ug/kg	230	68.	1
2,4-Dinitrophenol	ND		ug/kg	800	77.	1
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.	1
Pentachlorophenol	ND		ug/kg	130	36.	1
Phenol	ND		ug/kg	160	25.	1
2-Methylphenol	ND		ug/kg	160	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-01
Client ID: SB11 1-3'
Sample Location: MANHATTAN, NY
Date Collected: 12/10/21 11:45
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	160	32.	1
Benzoic Acid	ND		ug/kg	540	170	1
Benzyl Alcohol	ND		ug/kg	160	51.	1
Carbazole	ND		ug/kg	160	16.	1
1,4-Dioxane	ND		ug/kg	25	7.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	74		10-136
4-Terphenyl-d14	71		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-02
Client ID: SB13 1-3'
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 09:15
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/22/21 04:44
Analyst: CMM
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 12/20/21 01:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: BATTERY PARK **Lab Number:** L2168050

Project Number: 20-1152 **Report Date:** 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-02 Date Collected: 12/10/21 09:15

Client ID: SB13 1-3' Date Received: 12/10/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	830	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-02
Client ID: SB13 1-3'
Sample Location: MANHATTAN, NY
Date Collected: 12/10/21 09:15
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	66		10-136
4-Terphenyl-d14	61		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-03
Client ID: SB13 1-3' DUP
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 09:30
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/27/21 14:35
Analyst: SZ
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 12/20/21 01:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	150	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	180		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: BATTERY PARK **Lab Number:** L2168050

Project Number: 20-1152 **Report Date:** 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-03 Date Collected: 12/10/21 09:30

Client ID: SB13 1-3' DUP Date Received: 12/10/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	22.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	82.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	27.	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-03
Client ID: SB13 1-3' DUP
Sample Location: MANHATTAN, NY
Date Collected: 12/10/21 09:30
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	550	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	74		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-04
Client ID: SB13 5.5-7.5'
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 09:45
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/22/21 05:28
Analyst: CMM
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 12/20/21 01:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	180		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1

Project Name: BATTERY PARK **Lab Number:** L2168050

Project Number: 20-1152 **Report Date:** 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-04 Date Collected: 12/10/21 09:45

Client ID: SB13 5.5-7.5' Date Received: 12/10/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	64	J	ug/kg	100	19.	1
Benzo(a)pyrene	65	J	ug/kg	140	42.	1
Benzo(b)fluoranthene	98	J	ug/kg	100	29.	1
Benzo(k)fluoranthene	33	J	ug/kg	100	28.	1
Chrysene	75	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	40	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	140		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	50	J	ug/kg	140	24.	1
Pyrene	150		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	830	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-04
Client ID: SB13 5.5-7.5'
Sample Location: MANHATTAN, NY
Date Collected: 12/10/21 09:45
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	20	J	ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	78		10-136
4-Terphenyl-d14	70		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-05
Client ID: SB14 2-4'
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 11:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/22/21 05:50
Analyst: CMM
Percent Solids: 97%

Extraction Method: EPA 3546
Extraction Date: 12/20/21 01:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	230		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	150	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	470		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: BATTERY PARK **Lab Number:** L2168050

Project Number: 20-1152 **Report Date:** 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-05 Date Collected: 12/10/21 11:00

Client ID: SB14 2-4' Date Received: 12/10/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	100		ug/kg	100	19.	1
Benzo(a)pyrene	88	J	ug/kg	140	42.	1
Benzo(b)fluoranthene	130		ug/kg	100	29.	1
Benzo(k)fluoranthene	27	J	ug/kg	100	27.	1
Chrysene	90	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	42	J	ug/kg	100	33.	1
Benzo(ghi)perylene	58	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	210		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	64	J	ug/kg	140	24.	1
Pyrene	210		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	82.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	27.	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-05
Client ID: SB14 2-4'
Sample Location: MANHATTAN, NY
Date Collected: 12/10/21 11:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	550	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	24	J	ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	75		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-06
Client ID: COMP #6 (13,14,17)
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 11:30
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/23/21 00:33
Analyst: IM

Extraction Method: EPA 3510C
Extraction Date: 12/16/21 18:38

TCLP/SPLP Ext. Date: 12/12/21 06:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		21-120
Phenol-d6	65		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	67		10-120
4-Terphenyl-d14	66		33-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/18/21 20:21
Analyst: SLR
TCLP/SPLP Extraction Date: 12/11/21 15:56

Extraction Method: EPA 3510C
Extraction Date: 12/16/21 18:38

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 06 Batch: WG1584384-1					
Hexachlorobenzene	ND		ug/l	10	3.4
2,4-Dinitrotoluene	ND		ug/l	25	1.9
Hexachlorobutadiene	ND		ug/l	10	3.0
Hexachloroethane	ND		ug/l	10	2.2
Nitrobenzene	ND		ug/l	10	3.3
2,4,6-Trichlorophenol	ND		ug/l	25	2.5
Pentachlorophenol	17	J	ug/l	50	9.8
2-Methylphenol	ND		ug/l	25	5.5
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8
2,4,5-Trichlorophenol	ND		ug/l	25	1.9
Pyridine	ND		ug/l	18	4.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		21-120
Phenol-d6	64		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	73		33-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/22/21 00:09
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 12/20/21 01:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1585286-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/22/21 00:09
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 12/20/21 01:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1585286-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/22/21 00:09
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 12/20/21 01:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1585286-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	74		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	78		10-136
4-Terphenyl-d14	74		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 06 Batch: WG1584384-2 WG1584384-3								
Hexachlorobenzene	86		75		40-140	14		30
2,4-Dinitrotoluene	67		58		40-132	14		30
Hexachlorobutadiene	84		74		28-111	13		30
Hexachloroethane	65		54		21-105	18		30
Nitrobenzene	74		63		40-140	16		30
2,4,6-Trichlorophenol	87		76		30-130	13		30
Pentachlorophenol	40		46		9-103	14		30
2-Methylphenol	80		72		30-130	11		30
3-Methylphenol/4-Methylphenol	76		69		30-130	10		30
2,4,5-Trichlorophenol	98		84		30-130	15		30
Pyridine	**2**	Q	**6**	Q	10-66	**105**	Q	30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	85		76		21-120
Phenol-d6	72		65		10-120
Nitrobenzene-d5	78		67		23-120
2-Fluorobiphenyl	82		71		15-120
2,4,6-Tribromophenol	91		80		10-120
4-Terphenyl-d14	82		76		33-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168050

Report Date: 12/28/21

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 Batch: WG1585286-2 WG1585286-3								
Acenaphthene	79		70		31-137	12		50
1,2,4-Trichlorobenzene	83		74		38-107	11		50
Hexachlorobenzene	90		78		40-140	14		50
Bis(2-chloroethyl)ether	81		71		40-140	13		50
2-Chloronaphthalene	85		77		40-140	10		50
1,2-Dichlorobenzene	82		74		40-140	10		50
1,3-Dichlorobenzene	80		71		40-140	12		50
1,4-Dichlorobenzene	81		72		28-104	12		50
3,3'-Dichlorobenzidine	48		47		40-140	2		50
2,4-Dinitrotoluene	91		80		40-132	13		50
2,6-Dinitrotoluene	94		84		40-140	11		50
Fluoranthene	79		70		40-140	12		50
4-Chlorophenyl phenyl ether	83		72		40-140	14		50
4-Bromophenyl phenyl ether	87		77		40-140	12		50
Bis(2-chloroisopropyl)ether	72		65		40-140	10		50
Bis(2-chloroethoxy)methane	81		71		40-117	13		50
Hexachlorobutadiene	88		80		40-140	10		50
Hexachlorocyclopentadiene	74		64		40-140	14		50
Hexachloroethane	82		74		40-140	10		50
Isophorone	79		70		40-140	12		50
Naphthalene	81		72		40-140	12		50
Nitrobenzene	83		74		40-140	11		50
NDPA/DPA	82		72		36-157	13		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168050

Report Date: 12/28/21

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 Batch: WG1585286-2 WG1585286-3								
n-Nitrosodi-n-propylamine	80		70		32-121	13		50
Bis(2-ethylhexyl)phthalate	83		71		40-140	16		50
Butyl benzyl phthalate	84		73		40-140	14		50
Di-n-butylphthalate	81		71		40-140	13		50
Di-n-octylphthalate	82		72		40-140	13		50
Diethyl phthalate	82		72		40-140	13		50
Dimethyl phthalate	87		75		40-140	15		50
Benzo(a)anthracene	76		67		40-140	13		50
Benzo(a)pyrene	77		68		40-140	12		50
Benzo(b)fluoranthene	79		70		40-140	12		50
Benzo(k)fluoranthene	86		77		40-140	11		50
Chrysene	78		68		40-140	14		50
Acenaphthylene	82		72		40-140	13		50
Anthracene	78		69		40-140	12		50
Benzo(ghi)perylene	82		70		40-140	16		50
Fluorene	81		71		40-140	13		50
Phenanthrene	77		68		40-140	12		50
Dibenzo(a,h)anthracene	82		72		40-140	13		50
Indeno(1,2,3-cd)pyrene	80		70		40-140	13		50
Pyrene	78		69		35-142	12		50
Biphenyl	88		77		37-127	13		50
4-Chloroaniline	66		64		40-140	3		50
2-Nitroaniline	95		83		47-134	13		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168050

Report Date: 12/28/21

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 Batch: WG1585286-2 WG1585286-3								
3-Nitroaniline	54		52		26-129	4		50
4-Nitroaniline	81		72		41-125	12		50
Dibenzofuran	79		70		40-140	12		50
2-Methylnaphthalene	84		74		40-140	13		50
1,2,4,5-Tetrachlorobenzene	89		80		40-117	11		50
Acetophenone	87		77		14-144	12		50
2,4,6-Trichlorophenol	91		80		30-130	13		50
p-Chloro-m-cresol	90		78		26-103	14		50
2-Chlorophenol	88		77		25-102	13		50
2,4-Dichlorophenol	91		79		30-130	14		50
2,4-Dimethylphenol	85		75		30-130	13		50
2-Nitrophenol	98		87		30-130	12		50
4-Nitrophenol	88		76		11-114	15		50
2,4-Dinitrophenol	63		59		4-130	7		50
4,6-Dinitro-o-cresol	93		83		10-130	11		50
Pentachlorophenol	86		74		17-109	15		50
Phenol	84		74		26-90	13		50
2-Methylphenol	86		74		30-130.	15		50
3-Methylphenol/4-Methylphenol	90		81		30-130	11		50
2,4,5-Trichlorophenol	95		82		30-130	15		50
Benzoic Acid	**8**	Q	**5**	Q	10-110	36		50
Benzyl Alcohol	87		74		40-140	16		50
Carbazole	77		68		54-128	12		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168050
Report Date: 12/28/21

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 Batch: WG1585286-2 WG1585286-3								
1,4-Dioxane	52		46		40-140	12		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	84		75		25-120
Phenol-d6	88		77		10-120
Nitrobenzene-d5	84		77		23-120
2-Fluorobiphenyl	83		74		30-120
2,4,6-Tribromophenol	99		84		10-136
4-Terphenyl-d14	82		71		18-120

PCBS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-01
Client ID: SB11 1-3'
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 11:45
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/21/21 11:17
Analyst: JAW
Percent Solids: 98%

Extraction Method: EPA 3546
Extraction Date: 12/20/21 14:49
Cleanup Method: EPA 3665A
Cleanup Date: 12/21/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	32.2	2.86	1	A
Aroclor 1221	ND		ug/kg	32.2	3.23	1	A
Aroclor 1232	ND		ug/kg	32.2	6.83	1	A
Aroclor 1242	ND		ug/kg	32.2	4.34	1	A
Aroclor 1248	ND		ug/kg	32.2	4.83	1	A
Aroclor 1254	ND		ug/kg	32.2	3.52	1	A
Aroclor 1260	ND		ug/kg	32.2	5.95	1	A
Aroclor 1262	ND		ug/kg	32.2	4.09	1	A
Aroclor 1268	ND		ug/kg	32.2	3.34	1	A
PCBs, Total	ND		ug/kg	32.2	2.86	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-02
Client ID: SB13 1-3'
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 09:15
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/21/21 11:27
Analyst: JAW
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 12/20/21 14:49
Cleanup Method: EPA 3665A
Cleanup Date: 12/21/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.2	3.04	1	A
Aroclor 1221	ND		ug/kg	34.2	3.43	1	A
Aroclor 1232	ND		ug/kg	34.2	7.25	1	A
Aroclor 1242	ND		ug/kg	34.2	4.61	1	A
Aroclor 1248	ND		ug/kg	34.2	5.13	1	A
Aroclor 1254	ND		ug/kg	34.2	3.74	1	A
Aroclor 1260	ND		ug/kg	34.2	6.32	1	A
Aroclor 1262	ND		ug/kg	34.2	4.34	1	A
Aroclor 1268	ND		ug/kg	34.2	3.54	1	A
PCBs, Total	ND		ug/kg	34.2	3.04	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-03
Client ID: SB13 1-3' DUP
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 09:30
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/21/21 11:36
Analyst: JAW
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 12/20/21 14:49
Cleanup Method: EPA 3665A
Cleanup Date: 12/21/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.9	3.01	1	A
Aroclor 1221	ND		ug/kg	33.9	3.40	1	A
Aroclor 1232	ND		ug/kg	33.9	7.19	1	A
Aroclor 1242	ND		ug/kg	33.9	4.57	1	A
Aroclor 1248	ND		ug/kg	33.9	5.08	1	A
Aroclor 1254	ND		ug/kg	33.9	3.71	1	A
Aroclor 1260	ND		ug/kg	33.9	6.26	1	A
Aroclor 1262	ND		ug/kg	33.9	4.30	1	A
Aroclor 1268	ND		ug/kg	33.9	3.51	1	A
PCBs, Total	ND		ug/kg	33.9	3.01	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	55		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-04
Client ID: SB13 5.5-7.5'
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 09:45
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/21/21 11:45
Analyst: JAW
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 12/20/21 14:49
Cleanup Method: EPA 3665A
Cleanup Date: 12/21/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.3	3.13	1	A
Aroclor 1221	ND		ug/kg	35.3	3.54	1	A
Aroclor 1232	ND		ug/kg	35.3	7.48	1	A
Aroclor 1242	ND		ug/kg	35.3	4.76	1	A
Aroclor 1248	ND		ug/kg	35.3	5.30	1	A
Aroclor 1254	ND		ug/kg	35.3	3.86	1	A
Aroclor 1260	ND		ug/kg	35.3	6.52	1	A
Aroclor 1262	ND		ug/kg	35.3	4.48	1	A
Aroclor 1268	ND		ug/kg	35.3	3.66	1	A
PCBs, Total	ND		ug/kg	35.3	3.13	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	55		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-05
Client ID: SB14 2-4'
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 11:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/21/21 11:54
Analyst: JAW
Percent Solids: 97%

Extraction Method: EPA 3546
Extraction Date: 12/20/21 14:49
Cleanup Method: EPA 3665A
Cleanup Date: 12/21/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.4	2.97	1	A
Aroclor 1221	ND		ug/kg	33.4	3.35	1	A
Aroclor 1232	ND		ug/kg	33.4	7.09	1	A
Aroclor 1242	ND		ug/kg	33.4	4.51	1	A
Aroclor 1248	ND		ug/kg	33.4	5.02	1	A
Aroclor 1254	ND		ug/kg	33.4	3.66	1	A
Aroclor 1260	ND		ug/kg	33.4	6.18	1	A
Aroclor 1262	ND		ug/kg	33.4	4.25	1	A
Aroclor 1268	ND		ug/kg	33.4	3.46	1	A
PCBs, Total	ND		ug/kg	33.4	2.97	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 12/21/21 10:53
Analyst: CW

Extraction Method: EPA 3546
Extraction Date: 12/20/21 13:00
Cleanup Method: EPA 3665A
Cleanup Date: 12/21/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-05 Batch: WG1585552-1						
Aroclor 1016	ND		ug/kg	32.8	2.92	A
Aroclor 1221	ND		ug/kg	32.8	3.29	A
Aroclor 1232	ND		ug/kg	32.8	6.96	A
Aroclor 1242	ND		ug/kg	32.8	4.42	A
Aroclor 1248	ND		ug/kg	32.8	4.92	A
Aroclor 1254	ND		ug/kg	32.8	3.59	A
Aroclor 1260	ND		ug/kg	32.8	6.07	A
Aroclor 1262	ND		ug/kg	32.8	4.17	A
Aroclor 1268	ND		ug/kg	32.8	3.40	A
PCBs, Total	ND		ug/kg	32.8	2.92	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	49		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	45		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168050

Report Date: 12/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1585552-2 WG1585552-3									
Aroclor 1016	62		56		40-140	10		50	A
Aroclor 1260	58		52		40-140	11		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		49		30-150	A
Decachlorobiphenyl	55		51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		50		30-150	B
Decachlorobiphenyl	51		45		30-150	B

PESTICIDES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-01
Client ID: SB11 1-3'
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 11:45
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/22/21 16:42
Analyst: JAW
Percent Solids: 98%

Extraction Method: EPA 3546
Extraction Date: 12/20/21 09:14
Cleanup Method: EPA 3620B
Cleanup Date: 12/22/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.58	0.309	1	A
Lindane	ND		ug/kg	0.657	0.294	1	A
Alpha-BHC	ND		ug/kg	0.657	0.186	1	A
Beta-BHC	ND		ug/kg	1.58	0.598	1	A
Heptachlor	ND		ug/kg	0.788	0.353	1	A
Aldrin	ND		ug/kg	1.58	0.555	1	A
Heptachlor epoxide	ND		ug/kg	2.95	0.886	1	A
Endrin	ND		ug/kg	0.657	0.269	1	A
Endrin aldehyde	ND		ug/kg	1.97	0.689	1	A
Endrin ketone	ND		ug/kg	1.58	0.406	1	A
Dieldrin	ND		ug/kg	0.985	0.492	1	A
4,4'-DDE	ND		ug/kg	1.58	0.364	1	A
4,4'-DDD	ND		ug/kg	1.58	0.562	1	A
4,4'-DDT	ND		ug/kg	2.95	1.27	1	A
Endosulfan I	ND		ug/kg	1.58	0.372	1	A
Endosulfan II	ND		ug/kg	1.58	0.527	1	A
Endosulfan sulfate	ND		ug/kg	0.657	0.312	1	A
Methoxychlor	ND		ug/kg	2.95	0.919	1	A
Toxaphene	ND		ug/kg	29.5	8.27	1	A
cis-Chlordane	ND		ug/kg	1.97	0.549	1	A
trans-Chlordane	ND		ug/kg	1.97	0.520	1	A
Chlordane	ND		ug/kg	13.1	5.22	1	A

Project Name: BATTERY PARK
Lab Number: L2168050
Project Number: 20-1152
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-01
Client ID: SB11 1-3'
Sample Location: MANHATTAN, NY
Date Collected: 12/10/21 11:45
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-02
Client ID: SB13 1-3'
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 09:15
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/22/21 16:53
Analyst: JAW
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 12/20/21 09:14
Cleanup Method: EPA 3620B
Cleanup Date: 12/22/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.58	0.309	1	A
Lindane	ND		ug/kg	0.657	0.294	1	A
Alpha-BHC	ND		ug/kg	0.657	0.187	1	A
Beta-BHC	ND		ug/kg	1.58	0.598	1	A
Heptachlor	ND		ug/kg	0.789	0.354	1	A
Aldrin	ND		ug/kg	1.58	0.555	1	A
Heptachlor epoxide	ND		ug/kg	2.96	0.887	1	A
Endrin	ND		ug/kg	0.657	0.269	1	A
Endrin aldehyde	ND		ug/kg	1.97	0.690	1	A
Endrin ketone	ND		ug/kg	1.58	0.406	1	A
Dieldrin	ND		ug/kg	0.986	0.493	1	A
4,4'-DDE	2.90		ug/kg	1.58	0.365	1	A
4,4'-DDD	ND		ug/kg	1.58	0.562	1	A
4,4'-DDT	2.44	J	ug/kg	2.96	1.27	1	B
Endosulfan I	ND		ug/kg	1.58	0.373	1	A
Endosulfan II	ND		ug/kg	1.58	0.527	1	A
Endosulfan sulfate	ND		ug/kg	0.657	0.313	1	A
Methoxychlor	ND		ug/kg	2.96	0.920	1	A
Toxaphene	ND		ug/kg	29.6	8.28	1	A
cis-Chlordane	ND		ug/kg	1.97	0.549	1	A
trans-Chlordane	ND		ug/kg	1.97	0.520	1	A
Chlordane	ND		ug/kg	13.1	5.22	1	A

Project Name: BATTERY PARK
Lab Number: L2168050
Project Number: 20-1152
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-02
Client ID: SB13 1-3'
Sample Location: MANHATTAN, NY
Date Collected: 12/10/21 09:15
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	89		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-02
Client ID: SB13 1-3'
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 09:15
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/22/21 12:41
Analyst: AR
Percent Solids: 96%
Methylation Date: 12/14/21 13:10

Extraction Method: EPA 8151A
Extraction Date: 12/13/21 11:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	171	10.8	1	A
2,4,5-T	ND		ug/kg	171	5.30	1	A
2,4,5-TP (Silvex)	ND		ug/kg	171	4.55	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	84		30-150	A
DCAA	70		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-03
Client ID: SB13 1-3' DUP
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 09:30
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/22/21 17:04
Analyst: JAW
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 12/20/21 09:14
Cleanup Method: EPA 3620B
Cleanup Date: 12/22/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.64	0.320	1	A
Lindane	ND		ug/kg	0.682	0.305	1	A
Alpha-BHC	ND		ug/kg	0.682	0.194	1	A
Beta-BHC	ND		ug/kg	1.64	0.621	1	A
Heptachlor	ND		ug/kg	0.818	0.367	1	A
Aldrin	ND		ug/kg	1.64	0.576	1	A
Heptachlor epoxide	ND		ug/kg	3.07	0.921	1	A
Endrin	ND		ug/kg	0.682	0.280	1	A
Endrin aldehyde	ND		ug/kg	2.05	0.716	1	A
Endrin ketone	ND		ug/kg	1.64	0.422	1	A
Dieldrin	ND		ug/kg	1.02	0.512	1	A
4,4'-DDE	0.951	J	ug/kg	1.64	0.378	1	B
4,4'-DDD	ND		ug/kg	1.64	0.584	1	A
4,4'-DDT	ND		ug/kg	3.07	1.32	1	A
Endosulfan I	ND		ug/kg	1.64	0.387	1	A
Endosulfan II	ND		ug/kg	1.64	0.547	1	A
Endosulfan sulfate	ND		ug/kg	0.682	0.325	1	A
Methoxychlor	ND		ug/kg	3.07	0.955	1	A
Toxaphene	ND		ug/kg	30.7	8.59	1	A
cis-Chlordane	ND		ug/kg	2.05	0.570	1	A
trans-Chlordane	ND		ug/kg	2.05	0.540	1	A
Chlordane	ND		ug/kg	13.6	5.42	1	A

Project Name: BATTERY PARK
Lab Number: L2168050
Project Number: 20-1152
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-03
Client ID: SB13 1-3' DUP
Sample Location: MANHATTAN, NY
Date Collected: 12/10/21 09:30
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-04
Client ID: SB13 5.5-7.5'
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 09:45
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/22/21 17:15
Analyst: JAW
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 12/20/21 09:14
Cleanup Method: EPA 3620B
Cleanup Date: 12/22/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.70	0.332	1	A
Lindane	ND		ug/kg	0.707	0.316	1	A
Alpha-BHC	ND		ug/kg	0.707	0.201	1	A
Beta-BHC	ND		ug/kg	1.70	0.643	1	A
Heptachlor	ND		ug/kg	0.848	0.380	1	A
Aldrin	ND		ug/kg	1.70	0.597	1	A
Heptachlor epoxide	ND		ug/kg	3.18	0.954	1	A
Endrin	ND		ug/kg	0.707	0.290	1	A
Endrin aldehyde	ND		ug/kg	2.12	0.742	1	A
Endrin ketone	ND		ug/kg	1.70	0.437	1	A
Dieldrin	ND		ug/kg	1.06	0.530	1	A
4,4'-DDE	ND		ug/kg	1.70	0.392	1	A
4,4'-DDD	ND		ug/kg	1.70	0.605	1	A
4,4'-DDT	ND		ug/kg	3.18	1.36	1	A
Endosulfan I	ND		ug/kg	1.70	0.401	1	A
Endosulfan II	ND		ug/kg	1.70	0.567	1	A
Endosulfan sulfate	ND		ug/kg	0.707	0.336	1	A
Methoxychlor	ND		ug/kg	3.18	0.990	1	A
Toxaphene	ND		ug/kg	31.8	8.91	1	A
cis-Chlordane	ND		ug/kg	2.12	0.591	1	A
trans-Chlordane	ND		ug/kg	2.12	0.560	1	A
Chlordane	ND		ug/kg	14.1	5.62	1	A

Project Name: BATTERY PARK
Lab Number: L2168050
Project Number: 20-1152
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-04
Client ID: SB13 5.5-7.5'
Sample Location: MANHATTAN, NY
Date Collected: 12/10/21 09:45
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-05
Client ID: SB14 2-4'
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 11:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/22/21 17:27
Analyst: JAW
Percent Solids: 97%

Extraction Method: EPA 3546
Extraction Date: 12/20/21 09:14
Cleanup Method: EPA 3620B
Cleanup Date: 12/22/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.63	0.319	1	A
Lindane	ND		ug/kg	0.678	0.303	1	A
Alpha-BHC	ND		ug/kg	0.678	0.193	1	A
Beta-BHC	ND		ug/kg	1.63	0.617	1	A
Heptachlor	ND		ug/kg	0.814	0.365	1	A
Aldrin	ND		ug/kg	1.63	0.573	1	A
Heptachlor epoxide	ND		ug/kg	3.05	0.916	1	A
Endrin	ND		ug/kg	0.678	0.278	1	A
Endrin aldehyde	ND		ug/kg	2.04	0.712	1	A
Endrin ketone	ND		ug/kg	1.63	0.419	1	A
Dieldrin	ND		ug/kg	1.02	0.509	1	A
4,4'-DDE	ND		ug/kg	1.63	0.376	1	A
4,4'-DDD	ND		ug/kg	1.63	0.581	1	A
4,4'-DDT	ND		ug/kg	3.05	1.31	1	A
Endosulfan I	ND		ug/kg	1.63	0.385	1	A
Endosulfan II	ND		ug/kg	1.63	0.544	1	A
Endosulfan sulfate	ND		ug/kg	0.678	0.323	1	A
Methoxychlor	ND		ug/kg	3.05	0.950	1	A
Toxaphene	ND		ug/kg	30.5	8.55	1	A
cis-Chlordane	ND		ug/kg	2.04	0.567	1	A
trans-Chlordane	ND		ug/kg	2.04	0.537	1	A
Chlordane	ND		ug/kg	13.6	5.39	1	A

Project Name: BATTERY PARK
Lab Number: L2168050
Project Number: 20-1152
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-05
Client ID: SB14 2-4'
Sample Location: MANHATTAN, NY
Date Collected: 12/10/21 11:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-06
Client ID: COMP #6 (13,14,17)
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 11:30
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/18/21 14:15
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 12/16/21 18:39

TCLP/SPLP Ext. Date: 12/12/21 06:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Pesticides by EPA 1311 - Westborough Lab							
Lindane	ND		ug/l	0.100	0.022	1	A
Heptachlor	ND		ug/l	0.100	0.016	1	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	1	A
Endrin	ND		ug/l	0.200	0.021	1	A
Methoxychlor	ND		ug/l	1.00	0.034	1	A
Toxaphene	ND		ug/l	1.00	0.314	1	A
Chlordane	ND		ug/l	1.00	0.232	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-06
Client ID: COMP #6 (13,14,17)
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 11:30
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/23/21 12:45
Analyst: AR

Extraction Method: EPA 8151A
Extraction Date: 12/17/21 02:03

TCLP/SPLP Ext. Date: 12/12/21 06:53
Methylation Date: 12/18/21 07:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Herbicides by EPA 1311 - Westborough Lab							
2,4-D	ND		mg/l	0.025	0.001	1	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	107		30-150	A
DCAA	97		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 12/14/21 16:22
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 12/13/21 02:13

Methylation Date: 12/14/21 11:23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 02 Batch: WG1582360-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.02	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.31	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	75		30-150	A
DCAA	64		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/17/21 07:58
Analyst: EJL
TCLP/SPLP Extraction Date: 12/11/21 15:56

Extraction Method: EPA 3510C
Extraction Date: 12/16/21 18:39

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Pesticides by EPA 1311 - Westborough Lab for sample(s): 06 Batch: WG1584385-1						
Lindane	ND		ug/l	0.100	0.022	A
Heptachlor	ND		ug/l	0.100	0.016	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	A
Endrin	ND		ug/l	0.200	0.021	A
Methoxychlor	ND		ug/l	1.00	0.034	A
Toxaphene	ND		ug/l	1.00	0.314	A
Chlordane	ND		ug/l	1.00	0.232	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	106		30-150	A
Decachlorobiphenyl	128		30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	93		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 12/21/21 19:25
Analyst: AR
TCLP/SPLP Extraction Date: 12/11/21 15:56
Methylation Date: 12/18/21 07:38

Extraction Method: EPA 8151A
Extraction Date: 12/17/21 02:03

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Herbicides by EPA 1311 - Westborough Lab for sample(s): 06 Batch: WG1584456-1						
2,4-D	ND		mg/l	0.025	0.001	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	87		30-150	A
DCAA	78		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/22/21 15:57
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 12/20/21 09:14
Cleanup Method: EPA 3620B
Cleanup Date: 12/22/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1585419-1						
Delta-BHC	ND		ug/kg	1.58	0.310	A
Lindane	ND		ug/kg	0.660	0.295	A
Alpha-BHC	ND		ug/kg	0.660	0.187	A
Beta-BHC	ND		ug/kg	1.58	0.600	A
Heptachlor	ND		ug/kg	0.792	0.355	A
Aldrin	ND		ug/kg	1.58	0.557	A
Heptachlor epoxide	ND		ug/kg	2.97	0.890	A
Endrin	ND		ug/kg	0.660	0.270	A
Endrin aldehyde	ND		ug/kg	1.98	0.693	A
Endrin ketone	ND		ug/kg	1.58	0.408	A
Dieldrin	ND		ug/kg	0.989	0.495	A
4,4'-DDE	ND		ug/kg	1.58	0.366	A
4,4'-DDD	ND		ug/kg	1.58	0.565	A
4,4'-DDT	ND		ug/kg	2.97	1.27	A
Endosulfan I	ND		ug/kg	1.58	0.374	A
Endosulfan II	ND		ug/kg	1.58	0.529	A
Endosulfan sulfate	ND		ug/kg	0.660	0.314	A
Methoxychlor	ND		ug/kg	2.97	0.923	A
Toxaphene	ND		ug/kg	29.7	8.31	A
cis-Chlordane	ND		ug/kg	1.98	0.551	A
trans-Chlordane	ND		ug/kg	1.98	0.522	A
Chlordane	ND		ug/kg	13.2	5.24	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/22/21 15:57
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 12/20/21 09:14
Cleanup Method: EPA 3620B
Cleanup Date: 12/22/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1585419-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	82		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168050
Report Date: 12/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 02 Batch: WG1582360-2 WG1582360-3									
2,4-D	74		85		30-150	14		30	A
2,4,5-T	66		75		30-150	13		30	A
2,4,5-TP (Silvex)	69		73		30-150	6		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	51		78		30-150	A
DCAA	46		62		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168050
Report Date: 12/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Pesticides by EPA 1311 - Westborough Lab Associated sample(s): 06 Batch: WG1584385-2 WG1584385-3									
Lindane	120		120		30-150	0		20	A
Heptachlor	125		127		30-150	2		20	A
Heptachlor epoxide	127		131		30-150	3		20	A
Endrin	130		134		30-150	3		20	A
Methoxychlor	136		141		30-150	4		20	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	105		104		30-150	A
Decachlorobiphenyl	128		127		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		93		30-150	B
Decachlorobiphenyl	95		95		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168050

Report Date: 12/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Herbicides by EPA 1311 - Westborough Lab Associated sample(s): 06 Batch: WG1584456-2 WG1584456-3									
2,4-D	113		135		30-150	18		25	A
2,4,5-TP (Silvex)	66		81		30-150	20		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	88		117		30-150	A
DCAA	94		90		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168050

Report Date: 12/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1585419-2 WG1585419-3									
Delta-BHC	59		54		30-150	9		30	A
Lindane	88		80		30-150	10		30	A
Alpha-BHC	80		75		30-150	6		30	A
Beta-BHC	96		76		30-150	23		30	A
Heptachlor	90		88		30-150	2		30	A
Aldrin	92		88		30-150	4		30	A
Heptachlor epoxide	60		55		30-150	9		30	A
Endrin	85		83		30-150	2		30	A
Endrin aldehyde	60		58		30-150	3		30	A
Endrin ketone	75		74		30-150	1		30	A
Dieldrin	89		88		30-150	1		30	A
4,4'-DDE	81		79		30-150	3		30	A
4,4'-DDD	94		92		30-150	2		30	A
4,4'-DDT	86		85		30-150	1		30	A
Endosulfan I	77		75		30-150	3		30	A
Endosulfan II	84		82		30-150	2		30	A
Endosulfan sulfate	72		72		30-150	0		30	A
Methoxychlor	87		85		30-150	2		30	A
cis-Chlordane	67		66		30-150	2		30	A
trans-Chlordane	94		91		30-150	3		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168050

Report Date: 12/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1585419-2 WG1585419-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		67		30-150	A
Decachlorobiphenyl	61		64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		64		30-150	B
Decachlorobiphenyl	74		67		30-150	B

METALS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-01
Client ID: SB11 1-3'
Sample Location: MANHATTAN, NY
Date Collected: 12/10/21 11:45
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 98%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	983		mg/kg	8.07	2.18	2	12/22/21 14:42	12/28/21 00:21	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.03	0.306	2	12/22/21 14:42	12/27/21 19:45	EPA 3050B	1,6010D	DL
Arsenic, Total	1.52		mg/kg	0.807	0.168	2	12/22/21 14:42	12/27/21 19:45	EPA 3050B	1,6010D	DL
Barium, Total	3.19		mg/kg	0.807	0.140	2	12/22/21 14:42	12/27/21 19:45	EPA 3050B	1,6010D	DL
Beryllium, Total	0.065	J	mg/kg	0.403	0.027	2	12/22/21 14:42	12/27/21 19:45	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.807	0.079	2	12/22/21 14:42	12/27/21 19:45	EPA 3050B	1,6010D	DL
Calcium, Total	300		mg/kg	8.07	2.82	2	12/22/21 14:42	12/27/21 19:45	EPA 3050B	1,6010D	DL
Chromium, Total	3.23		mg/kg	0.807	0.077	2	12/22/21 14:42	12/27/21 19:45	EPA 3050B	1,6010D	DL
Cobalt, Total	1.58	J	mg/kg	1.61	0.134	2	12/22/21 14:42	12/27/21 19:45	EPA 3050B	1,6010D	DL
Copper, Total	2.36		mg/kg	0.807	0.208	2	12/22/21 14:42	12/27/21 19:45	EPA 3050B	1,6010D	DL
Iron, Total	2810		mg/kg	4.03	0.728	2	12/22/21 14:42	12/27/21 19:45	EPA 3050B	1,6010D	DL
Lead, Total	5.32		mg/kg	4.03	0.216	2	12/22/21 14:42	12/27/21 19:45	EPA 3050B	1,6010D	DL
Magnesium, Total	618		mg/kg	8.07	1.24	2	12/22/21 14:42	12/27/21 19:45	EPA 3050B	1,6010D	DL
Manganese, Total	59.7		mg/kg	0.807	0.128	2	12/22/21 14:42	12/27/21 19:45	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.077	0.050	1	12/22/21 14:50	12/22/21 18:29	EPA 7471B	1,7471B	AC
Nickel, Total	3.85		mg/kg	2.02	0.195	2	12/22/21 14:42	12/27/21 19:45	EPA 3050B	1,6010D	DL
Potassium, Total	234		mg/kg	202	11.6	2	12/22/21 14:42	12/27/21 19:45	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	1.61	0.208	2	12/22/21 14:42	12/27/21 19:45	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.807	0.228	2	12/22/21 14:42	12/27/21 19:45	EPA 3050B	1,6010D	DL
Sodium, Total	75.1	J	mg/kg	161	2.54	2	12/22/21 14:42	12/27/21 19:45	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.61	0.254	2	12/22/21 14:42	12/27/21 19:45	EPA 3050B	1,6010D	DL
Vanadium, Total	3.51		mg/kg	0.807	0.164	2	12/22/21 14:42	12/27/21 19:45	EPA 3050B	1,6010D	DL
Zinc, Total	9.95		mg/kg	4.03	0.236	2	12/22/21 14:42	12/27/21 19:45	EPA 3050B	1,6010D	DL

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-02
Client ID: SB13 1-3'
Sample Location: MANHATTAN, NY
Date Collected: 12/10/21 09:15
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1500		mg/kg	8.07	2.18	2	12/22/21 14:42	12/28/21 00:59	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.04	0.307	2	12/22/21 14:42	12/27/21 19:49	EPA 3050B	1,6010D	DL
Arsenic, Total	1.63		mg/kg	0.807	0.168	2	12/22/21 14:42	12/27/21 19:49	EPA 3050B	1,6010D	DL
Barium, Total	19.5		mg/kg	0.807	0.140	2	12/22/21 14:42	12/27/21 19:49	EPA 3050B	1,6010D	DL
Beryllium, Total	0.057	J	mg/kg	0.404	0.027	2	12/22/21 14:42	12/27/21 19:49	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.807	0.079	2	12/22/21 14:42	12/27/21 19:49	EPA 3050B	1,6010D	DL
Calcium, Total	4530		mg/kg	8.07	2.83	2	12/22/21 14:42	12/27/21 19:49	EPA 3050B	1,6010D	DL
Chromium, Total	4.17		mg/kg	0.807	0.078	2	12/22/21 14:42	12/27/21 19:49	EPA 3050B	1,6010D	DL
Cobalt, Total	1.94		mg/kg	1.61	0.134	2	12/22/21 14:42	12/27/21 19:49	EPA 3050B	1,6010D	DL
Copper, Total	6.22		mg/kg	0.807	0.208	2	12/22/21 14:42	12/27/21 19:49	EPA 3050B	1,6010D	DL
Iron, Total	3330		mg/kg	4.04	0.729	2	12/22/21 14:42	12/27/21 19:49	EPA 3050B	1,6010D	DL
Lead, Total	5.39		mg/kg	4.04	0.216	2	12/22/21 14:42	12/27/21 19:49	EPA 3050B	1,6010D	DL
Magnesium, Total	2980		mg/kg	8.07	1.24	2	12/22/21 14:42	12/27/21 19:49	EPA 3050B	1,6010D	DL
Manganese, Total	392		mg/kg	0.807	0.128	2	12/22/21 14:42	12/27/21 19:49	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.073	0.047	1	12/22/21 14:50	12/22/21 18:32	EPA 7471B	1,7471B	AC
Nickel, Total	3.67		mg/kg	2.02	0.195	2	12/22/21 14:42	12/27/21 19:49	EPA 3050B	1,6010D	DL
Potassium, Total	293		mg/kg	202	11.6	2	12/22/21 14:42	12/27/21 19:49	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	1.61	0.208	2	12/22/21 14:42	12/27/21 19:49	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.807	0.228	2	12/22/21 14:42	12/27/21 19:49	EPA 3050B	1,6010D	DL
Sodium, Total	24.9	J	mg/kg	161	2.54	2	12/22/21 14:42	12/27/21 19:49	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.61	0.254	2	12/22/21 14:42	12/27/21 19:49	EPA 3050B	1,6010D	DL
Vanadium, Total	5.72		mg/kg	0.807	0.164	2	12/22/21 14:42	12/27/21 19:49	EPA 3050B	1,6010D	DL
Zinc, Total	14.2		mg/kg	4.04	0.236	2	12/22/21 14:42	12/27/21 19:49	EPA 3050B	1,6010D	DL

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-03
Client ID: SB13 1-3' DUP
Sample Location: MANHATTAN, NY
Date Collected: 12/10/21 09:30
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	676		mg/kg	8.14	2.20	2	12/22/21 14:42	12/28/21 01:03	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.07	0.309	2	12/22/21 14:42	12/27/21 19:54	EPA 3050B	1,6010D	DL
Arsenic, Total	0.529	J	mg/kg	0.814	0.169	2	12/22/21 14:42	12/27/21 19:54	EPA 3050B	1,6010D	DL
Barium, Total	4.13		mg/kg	0.814	0.142	2	12/22/21 14:42	12/27/21 19:54	EPA 3050B	1,6010D	DL
Beryllium, Total	ND		mg/kg	0.407	0.027	2	12/22/21 14:42	12/27/21 19:54	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.814	0.080	2	12/22/21 14:42	12/27/21 19:54	EPA 3050B	1,6010D	DL
Calcium, Total	600		mg/kg	8.14	2.85	2	12/22/21 14:42	12/27/21 19:54	EPA 3050B	1,6010D	DL
Chromium, Total	1.60		mg/kg	0.814	0.078	2	12/22/21 14:42	12/27/21 19:54	EPA 3050B	1,6010D	DL
Cobalt, Total	0.773	J	mg/kg	1.63	0.135	2	12/22/21 14:42	12/27/21 19:54	EPA 3050B	1,6010D	DL
Copper, Total	4.25		mg/kg	0.814	0.210	2	12/22/21 14:42	12/27/21 19:54	EPA 3050B	1,6010D	DL
Iron, Total	1610		mg/kg	4.07	0.735	2	12/22/21 14:42	12/27/21 19:54	EPA 3050B	1,6010D	DL
Lead, Total	2.25	J	mg/kg	4.07	0.218	2	12/22/21 14:42	12/27/21 19:54	EPA 3050B	1,6010D	DL
Magnesium, Total	404		mg/kg	8.14	1.25	2	12/22/21 14:42	12/27/21 19:54	EPA 3050B	1,6010D	DL
Manganese, Total	27.8		mg/kg	0.814	0.129	2	12/22/21 14:42	12/27/21 19:54	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.076	0.049	1	12/22/21 14:50	12/22/21 18:36	EPA 7471B	1,7471B	AC
Nickel, Total	1.31	J	mg/kg	2.03	0.197	2	12/22/21 14:42	12/27/21 19:54	EPA 3050B	1,6010D	DL
Potassium, Total	149	J	mg/kg	203	11.7	2	12/22/21 14:42	12/27/21 19:54	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	1.63	0.210	2	12/22/21 14:42	12/27/21 19:54	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.814	0.230	2	12/22/21 14:42	12/27/21 19:54	EPA 3050B	1,6010D	DL
Sodium, Total	13.1	J	mg/kg	163	2.56	2	12/22/21 14:42	12/27/21 19:54	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.63	0.256	2	12/22/21 14:42	12/27/21 19:54	EPA 3050B	1,6010D	DL
Vanadium, Total	2.34		mg/kg	0.814	0.165	2	12/22/21 14:42	12/27/21 19:54	EPA 3050B	1,6010D	DL
Zinc, Total	5.68		mg/kg	4.07	0.238	2	12/22/21 14:42	12/27/21 19:54	EPA 3050B	1,6010D	DL

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-04
Client ID: SB13 5.5-7.5'
Sample Location: MANHATTAN, NY
Date Collected: 12/10/21 09:45
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1030		mg/kg	8.50	2.30	2	12/22/21 14:42	12/28/21 01:08	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.25	0.323	2	12/22/21 14:42	12/27/21 20:38	EPA 3050B	1,6010D	DL
Arsenic, Total	1.84		mg/kg	0.850	0.177	2	12/22/21 14:42	12/27/21 20:38	EPA 3050B	1,6010D	DL
Barium, Total	8.40		mg/kg	0.850	0.148	2	12/22/21 14:42	12/27/21 20:38	EPA 3050B	1,6010D	DL
Beryllium, Total	0.060	J	mg/kg	0.425	0.028	2	12/22/21 14:42	12/27/21 20:38	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.850	0.083	2	12/22/21 14:42	12/27/21 20:38	EPA 3050B	1,6010D	DL
Calcium, Total	3610		mg/kg	8.50	2.98	2	12/22/21 14:42	12/27/21 20:38	EPA 3050B	1,6010D	DL
Chromium, Total	3.72		mg/kg	0.850	0.082	2	12/22/21 14:42	12/27/21 20:38	EPA 3050B	1,6010D	DL
Cobalt, Total	1.47	J	mg/kg	1.70	0.141	2	12/22/21 14:42	12/27/21 20:38	EPA 3050B	1,6010D	DL
Copper, Total	3.16		mg/kg	0.850	0.219	2	12/22/21 14:42	12/27/21 20:38	EPA 3050B	1,6010D	DL
Iron, Total	2940		mg/kg	4.25	0.768	2	12/22/21 14:42	12/27/21 20:38	EPA 3050B	1,6010D	DL
Lead, Total	4.96		mg/kg	4.25	0.228	2	12/22/21 14:42	12/27/21 20:38	EPA 3050B	1,6010D	DL
Magnesium, Total	793		mg/kg	8.50	1.31	2	12/22/21 14:42	12/27/21 20:38	EPA 3050B	1,6010D	DL
Manganese, Total	75.8		mg/kg	0.850	0.135	2	12/22/21 14:42	12/27/21 20:38	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.071	0.046	1	12/22/21 14:50	12/22/21 18:39	EPA 7471B	1,7471B	AC
Nickel, Total	3.88		mg/kg	2.12	0.206	2	12/22/21 14:42	12/27/21 20:38	EPA 3050B	1,6010D	DL
Potassium, Total	240		mg/kg	212	12.2	2	12/22/21 14:42	12/27/21 20:38	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	1.70	0.219	2	12/22/21 14:42	12/27/21 20:38	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.850	0.240	2	12/22/21 14:42	12/27/21 20:38	EPA 3050B	1,6010D	DL
Sodium, Total	75.0	J	mg/kg	170	2.68	2	12/22/21 14:42	12/27/21 20:38	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.70	0.268	2	12/22/21 14:42	12/27/21 20:38	EPA 3050B	1,6010D	DL
Vanadium, Total	3.30		mg/kg	0.850	0.172	2	12/22/21 14:42	12/27/21 20:38	EPA 3050B	1,6010D	DL
Zinc, Total	12.6		mg/kg	4.25	0.249	2	12/22/21 14:42	12/27/21 20:38	EPA 3050B	1,6010D	DL

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-05
Client ID: SB14 2-4'
Sample Location: MANHATTAN, NY
Date Collected: 12/10/21 11:00
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	947		mg/kg	8.13	2.20	2	12/22/21 14:42	12/28/21 01:13	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.07	0.309	2	12/22/21 14:42	12/27/21 20:42	EPA 3050B	1,6010D	DL
Arsenic, Total	1.28		mg/kg	0.813	0.169	2	12/22/21 14:42	12/27/21 20:42	EPA 3050B	1,6010D	DL
Barium, Total	6.56		mg/kg	0.813	0.142	2	12/22/21 14:42	12/27/21 20:42	EPA 3050B	1,6010D	DL
Beryllium, Total	0.049	J	mg/kg	0.407	0.027	2	12/22/21 14:42	12/27/21 20:42	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.813	0.080	2	12/22/21 14:42	12/27/21 20:42	EPA 3050B	1,6010D	DL
Calcium, Total	1270		mg/kg	8.13	2.85	2	12/22/21 14:42	12/27/21 20:42	EPA 3050B	1,6010D	DL
Chromium, Total	3.62		mg/kg	0.813	0.078	2	12/22/21 14:42	12/27/21 20:42	EPA 3050B	1,6010D	DL
Cobalt, Total	1.34	J	mg/kg	1.63	0.135	2	12/22/21 14:42	12/27/21 20:42	EPA 3050B	1,6010D	DL
Copper, Total	3.10		mg/kg	0.813	0.210	2	12/22/21 14:42	12/27/21 20:42	EPA 3050B	1,6010D	DL
Iron, Total	2650		mg/kg	4.07	0.734	2	12/22/21 14:42	12/27/21 20:42	EPA 3050B	1,6010D	DL
Lead, Total	8.83		mg/kg	4.07	0.218	2	12/22/21 14:42	12/27/21 20:42	EPA 3050B	1,6010D	DL
Magnesium, Total	765		mg/kg	8.13	1.25	2	12/22/21 14:42	12/27/21 20:42	EPA 3050B	1,6010D	DL
Manganese, Total	45.8		mg/kg	0.813	0.129	2	12/22/21 14:42	12/27/21 20:42	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.068	0.044	1	12/22/21 14:50	12/22/21 18:42	EPA 7471B	1,7471B	AC
Nickel, Total	3.59		mg/kg	2.03	0.197	2	12/22/21 14:42	12/27/21 20:42	EPA 3050B	1,6010D	DL
Potassium, Total	215		mg/kg	203	11.7	2	12/22/21 14:42	12/27/21 20:42	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	1.63	0.210	2	12/22/21 14:42	12/27/21 20:42	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.813	0.230	2	12/22/21 14:42	12/27/21 20:42	EPA 3050B	1,6010D	DL
Sodium, Total	36.8	J	mg/kg	163	2.56	2	12/22/21 14:42	12/27/21 20:42	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.63	0.256	2	12/22/21 14:42	12/27/21 20:42	EPA 3050B	1,6010D	DL
Vanadium, Total	3.33		mg/kg	0.813	0.165	2	12/22/21 14:42	12/27/21 20:42	EPA 3050B	1,6010D	DL
Zinc, Total	12.4		mg/kg	4.07	0.238	2	12/22/21 14:42	12/27/21 20:42	EPA 3050B	1,6010D	DL

Project Name: BATTERY PARK
Lab Number: L2168050
Project Number: 20-1152
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-06
Client ID: COMP #6 (13,14,17)
Sample Location: MANHATTAN, NY
Date Collected: 12/10/21 11:30
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
TCLP/SPLP Ext. Date: 12/13/21 06:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	0.020	J	mg/l	1.00	0.019	1	12/21/21 10:20	12/23/21 01:17	EPA 3015	1,6010D	MC
Barium, TCLP	0.228	J	mg/l	0.500	0.021	1	12/21/21 10:20	12/23/21 01:17	EPA 3015	1,6010D	MC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	12/21/21 10:20	12/23/21 01:17	EPA 3015	1,6010D	MC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	12/21/21 10:20	12/23/21 01:17	EPA 3015	1,6010D	MC
Lead, TCLP	ND		mg/l	0.500	0.027	1	12/21/21 10:20	12/23/21 01:17	EPA 3015	1,6010D	MC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	12/21/21 10:32	12/21/21 15:48	EPA 7470A	1,7470A	AC
Selenium, TCLP	ND		mg/l	0.500	0.035	1	12/21/21 10:20	12/23/21 01:17	EPA 3015	1,6010D	MC
Silver, TCLP	ND		mg/l	0.100	0.028	1	12/21/21 10:20	12/23/21 01:17	EPA 3015	1,6010D	MC

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 06 Batch: WG1585872-1										
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	12/21/21 10:20	12/22/21 23:59	1,6010D	MC
Barium, TCLP	ND		mg/l	0.500	0.021	1	12/21/21 10:20	12/22/21 23:59	1,6010D	MC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	12/21/21 10:20	12/22/21 23:59	1,6010D	MC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	12/21/21 10:20	12/22/21 23:59	1,6010D	MC
Lead, TCLP	ND		mg/l	0.500	0.027	1	12/21/21 10:20	12/22/21 23:59	1,6010D	MC
Selenium, TCLP	ND		mg/l	0.500	0.035	1	12/21/21 10:20	12/22/21 23:59	1,6010D	MC
Silver, TCLP	ND		mg/l	0.100	0.028	1	12/21/21 10:20	12/22/21 23:59	1,6010D	MC

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 12/11/21 15:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 06 Batch: WG1585875-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	12/21/21 10:32	12/21/21 14:26	1,7470A	AC

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 12/11/21 15:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1586237-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	12/22/21 14:42	12/28/21 00:02	1,6010D	DL
Antimony, Total	ND		mg/kg	2.00	0.152	1	12/22/21 14:42	12/27/21 19:36	1,6010D	DL
Arsenic, Total	ND		mg/kg	0.400	0.083	1	12/22/21 14:42	12/27/21 19:36	1,6010D	DL
Barium, Total	ND		mg/kg	0.400	0.070	1	12/22/21 14:42	12/27/21 19:36	1,6010D	DL
Beryllium, Total	ND		mg/kg	0.200	0.013	1	12/22/21 14:42	12/27/21 19:36	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.400	0.039	1	12/22/21 14:42	12/27/21 19:36	1,6010D	DL
Calcium, Total	ND		mg/kg	4.00	1.40	1	12/22/21 14:42	12/27/21 19:36	1,6010D	DL
Chromium, Total	ND		mg/kg	0.400	0.038	1	12/22/21 14:42	12/27/21 19:36	1,6010D	DL
Cobalt, Total	ND		mg/kg	0.800	0.066	1	12/22/21 14:42	12/27/21 19:36	1,6010D	DL

Project Name: BATTERY PARK **Lab Number:** L2168050

Project Number: 20-1152 **Report Date:** 12/28/21

Method Blank Analysis
Batch Quality Control

Copper, Total	ND		mg/kg	0.400	0.103	1	12/22/21 14:42	12/27/21 19:36	1,6010D	DL
Iron, Total	ND		mg/kg	2.00	0.361	1	12/22/21 14:42	12/27/21 19:36	1,6010D	DL
Lead, Total	ND		mg/kg	2.00	0.107	1	12/22/21 14:42	12/27/21 19:36	1,6010D	DL
Magnesium, Total	ND		mg/kg	4.00	0.616	1	12/22/21 14:42	12/27/21 19:36	1,6010D	DL
Manganese, Total	ND		mg/kg	0.400	0.064	1	12/22/21 14:42	12/27/21 19:36	1,6010D	DL
Nickel, Total	ND		mg/kg	1.00	0.097	1	12/22/21 14:42	12/27/21 19:36	1,6010D	DL
Potassium, Total	ND		mg/kg	100	5.76	1	12/22/21 14:42	12/27/21 19:36	1,6010D	DL
Selenium, Total	ND		mg/kg	0.800	0.103	1	12/22/21 14:42	12/27/21 19:36	1,6010D	DL
Silver, Total	ND		mg/kg	0.400	0.113	1	12/22/21 14:42	12/27/21 19:36	1,6010D	DL
Sodium, Total	5.82	J	mg/kg	80.0	1.26	1	12/22/21 14:42	12/27/21 19:36	1,6010D	DL
Thallium, Total	ND		mg/kg	0.800	0.126	1	12/22/21 14:42	12/27/21 19:36	1,6010D	DL
Vanadium, Total	ND		mg/kg	0.400	0.081	1	12/22/21 14:42	12/27/21 19:36	1,6010D	DL
Zinc, Total	ND		mg/kg	2.00	0.117	1	12/22/21 14:42	12/27/21 19:36	1,6010D	DL

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): 01-05 Batch: WG1586238-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	12/22/21 14:50	12/22/21 18:03	1,7471B	AC

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168050

Report Date: 12/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 06 Batch: WG1585872-2								
Arsenic, TCLP	111		-		75-125	-		20
Barium, TCLP	102		-		75-125	-		20
Cadmium, TCLP	101		-		75-125	-		20
Chromium, TCLP	100		-		75-125	-		20
Lead, TCLP	97		-		75-125	-		20
Selenium, TCLP	109		-		75-125	-		20
Silver, TCLP	101		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 06 Batch: WG1585875-2								
Mercury, TCLP	101		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168050

Report Date: 12/28/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1586237-2 SRM Lot Number: D113-540					
Aluminum, Total	71	-	51-149	-	
Antimony, Total	174	-	20-250	-	
Arsenic, Total	100	-	70-130	-	
Barium, Total	92	-	75-125	-	
Beryllium, Total	94	-	75-125	-	
Cadmium, Total	96	-	75-125	-	
Calcium, Total	93	-	73-128	-	
Chromium, Total	96	-	70-130	-	
Cobalt, Total	98	-	75-125	-	
Copper, Total	96	-	75-125	-	
Iron, Total	93	-	36-164	-	
Lead, Total	98	-	72-128	-	
Magnesium, Total	87	-	63-138	-	
Manganese, Total	93	-	77-123	-	
Nickel, Total	96	-	70-130	-	
Potassium, Total	86	-	59-141	-	
Selenium, Total	98	-	66-134	-	
Silver, Total	96	-	70-131	-	
Sodium, Total	95	-	35-164	-	
Thallium, Total	97	-	70-130	-	
Vanadium, Total	94	-	74-126	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168050

Report Date: 12/28/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1586237-2 SRM Lot Number: D113-540					
Zinc, Total	97	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1586238-2 SRM Lot Number: D113-540					
Mercury, Total	87	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168050
Report Date: 12/28/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1585872-3 QC Sample: L2167598-01 Client ID: MS Sample												
Arsenic, TCLP	0.050J	1.2	1.38	115		-	-		75-125	-		20
Barium, TCLP	ND	20	20.6	103		-	-		75-125	-		20
Cadmium, TCLP	ND	0.53	0.538	102		-	-		75-125	-		20
Chromium, TCLP	ND	2	2.00	100		-	-		75-125	-		20
Lead, TCLP	ND	5.3	5.18	98		-	-		75-125	-		20
Selenium, TCLP	ND	1.2	1.28	107		-	-		75-125	-		20
Silver, TCLP	ND	0.5	0.517	103		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1585875-3 QC Sample: L2167598-01 Client ID: MS Sample												
Mercury, TCLP	ND	0.025	0.0257	103		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168050
Report Date: 12/28/21

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): 01-05 QC Batch ID: WG1586237-3 WG1586237-4 QC Sample: L2169711-01 Client ID: MS Sample												
Aluminum, Total	4970	174	5090	**69**	Q	5480	**281**	Q	75-125	7		20
Antimony, Total	ND	43.4	36.4	84		38.2	84		75-125	5		20
Arsenic, Total	0.707J	10.4	10.4	100		11.2	103		75-125	7		20
Barium, Total	31.9	174	186	89		202	94		75-125	8		20
Beryllium, Total	0.308J	4.34	4.26	98		4.54	100		75-125	6		20
Cadmium, Total	ND	4.6	3.41	**74**	Q	3.54	**74**	Q	75-125	4		20
Calcium, Total	933	868	2010	124		1780	93		75-125	12		20
Chromium, Total	10.1	17.4	25.6	89		28.3	100		75-125	10		20
Cobalt, Total	4.88	43.4	40.8	83		42.7	83		75-125	5		20
Copper, Total	9.94	21.7	104	**433**	Q	31.6	96		75-125	**107**	Q	20
Iron, Total	11900	86.8	11300	**0**	Q	11900	**0**	Q	75-125	5		20
Lead, Total	6.23	46	45.1	84		47.6	86		75-125	5		20
Magnesium, Total	2590	868	3270	78		3270	75		75-125	0		20
Manganese, Total	236	43.4	311	**173**	Q	325	**196**	Q	75-125	4		20
Nickel, Total	10.2	43.4	46.9	84		48.7	85		75-125	4		20
Potassium, Total	826	868	1560	84		1620	88		75-125	4		20
Selenium, Total	ND	10.4	9.11	87		9.63	88		75-125	6		20
Silver, Total	ND	26	23.0	88		24.4	90		75-125	6		20
Sodium, Total	201	868	969	88		983	86		75-125	1		20
Thallium, Total	ND	10.4	8.78	84		9.36	86		75-125	6		20
Vanadium, Total	10.3	43.4	50.0	91		53.2	95		75-125	6		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168050
Report Date: 12/28/21

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): 01-05 QC Batch ID: WG1586237-3 WG1586237-4 QC Sample: L2169711-01 Client ID: MS Sample									
Zinc, Total	31.0	43.4	74.6	100	75.5	98	75-125	1	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1586238-3 WG1586238-4 QC Sample: L2169711-01 Client ID: MS Sample									
Mercury, Total	ND	0.16	0.162	101	0.170	103	80-120	5	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168050
Report Date: 12/28/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1585872-4 QC Sample: L2167598-01 Client ID: DUP Sample						
Arsenic, TCLP	0.050J	0.035J	mg/l	NC		20
Barium, TCLP	ND	ND	mg/l	NC		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	ND	ND	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1585875-4 QC Sample: L2167598-01 Client ID: DUP Sample						
Mercury, TCLP	ND	ND	mg/l	NC		20

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2168050
Report Date: 12/28/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1586237-6 QC Sample: L2169711-01 Client ID: DUP Sample						
Barium, Total	31.9	37.5	mg/kg	18		20
Calcium, Total	933	1080	mg/kg	16		20
Iron, Total	11900	13600	mg/kg	14		20
Magnesium, Total	2590	2970	mg/kg	15		20
Manganese, Total	236	272	mg/kg	15		20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1586237-6 QC Sample: L2169711-01 Client ID: DUP Sample						
Aluminum, Total	4970	5790	mg/kg	16		20

INORGANICS
&
MISCELLANEOUS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-06
Client ID: COMP #6 (13,14,17)
Sample Location: MANHATTAN, NY
Date Collected: 12/10/21 11:30
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Wet Sand
Particle Size:	Fine
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	12/23/21 09:00	1,1030	IS

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-01
Client ID: SB11 1-3'
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 11:45
Date Received: 12/10/21
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	98.0		%	0.100	NA	1	-	12/14/21 03:38	121,2540G	MA
Cyanide, Total	ND		mg/kg	1.0	0.21	1	12/22/21 15:20	12/23/21 10:10	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.816	0.163	1	12/22/21 15:53	12/23/21 09:15	1,7196A	JT

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-02
Client ID: SB13 1-3'
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 09:15
Date Received: 12/10/21
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	96.0		%	0.100	NA	1	-	12/14/21 11:58	121,2540G	RI
Cyanide, Total	ND		mg/kg	0.98	0.21	1	12/22/21 11:40	12/22/21 15:50	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.833	0.167	1	12/22/21 15:53	12/23/21 09:15	1,7196A	JT

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-03
Client ID: SB13 1-3' DUP
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 09:30
Date Received: 12/10/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.7		%	0.100	NA	1	-	12/14/21 11:16	121,2540G	RI
Cyanide, Total	ND		mg/kg	0.99	0.21	1	12/22/21 11:40	12/22/21 15:51	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.836	0.167	1	12/22/21 15:53	12/23/21 09:15	1,7196A	JT

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-04
Client ID: SB13 5.5-7.5'
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 09:45
Date Received: 12/10/21
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	93.8		%	0.100	NA	1	-	12/14/21 03:38	121,2540G	MA
Cyanide, Total	ND		mg/kg	0.99	0.21	1	12/22/21 11:40	12/22/21 15:52	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.853	0.170	1	12/22/21 15:53	12/23/21 09:15	1,7196A	JT

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-05
Client ID: SB14 2-4'
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 11:00
Date Received: 12/10/21
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	96.9		%	0.100	NA	1	-	12/14/21 03:38	121,2540G	MA
Cyanide, Total	ND		mg/kg	0.98	0.21	1	12/22/21 15:20	12/23/21 10:11	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.826	0.165	1	12/22/21 15:53	12/23/21 09:15	1,7196A	JT

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168050
Report Date: 12/28/21

SAMPLE RESULTS

Lab ID: L2168050-06
Client ID: COMP #6 (13,14,17)
Sample Location: MANHATTAN, NY

Date Collected: 12/10/21 11:30
Date Received: 12/10/21
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										
pH (H)	8.1		SU	-	NA	1	-	12/20/21 13:38	1,9045D	KP
Cyanide, Reactive	ND		mg/kg	10	10.	1	12/22/21 14:15	12/22/21 16:46	125,7.3	MJ
Sulfide, Reactive	ND		mg/kg	10	10.	1	12/22/21 14:15	12/22/21 16:11	125,7.3	MJ

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168050
Report Date: 12/28/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 06 Batch: WG1586300-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	12/22/21 14:15	12/22/21 16:01	125,7.3	MJ
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1586335-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	12/22/21 15:53	12/23/21 09:15	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 06 Batch: WG1586503-4										
Cyanide, Reactive	ND		mg/kg	10	10.	1	12/22/21 14:15	12/22/21 16:43	125,7.3	MJ
General Chemistry - Westborough Lab for sample(s): 02-04 Batch: WG1586547-1										
Cyanide, Total	ND		mg/kg	0.97	0.21	1	12/22/21 11:40	12/22/21 15:40	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 01,05 Batch: WG1586583-1										
Cyanide, Total	ND		mg/kg	0.93	0.20	1	12/22/21 15:20	12/23/21 09:51	1,9010C/9012B	CS

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168050

Report Date: 12/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06 Batch: WG1585569-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 06 Batch: WG1586300-2								
Sulfide, Reactive	114		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1586335-2								
Chromium, Hexavalent	99		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 06 Batch: WG1586503-2								
Cyanide, Reactive	67		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 02-04 Batch: WG1586547-2 WG1586547-3								
Cyanide, Total	**77**	Q	85		80-120	7		35
General Chemistry - Westborough Lab Associated sample(s): 01,05 Batch: WG1586583-2 WG1586583-3								
Cyanide, Total	92		94		80-120	6		35

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168050
Report Date: 12/28/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1586335-4 QC Sample: L2167681-03 Client ID: MS Sample												
Chromium, Hexavalent	ND	947	805	85		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-04 QC Batch ID: WG1586547-4 WG1586547-5 QC Sample: L2168184-01 Client ID: MS Sample												
Cyanide, Total	ND	11	12	110		6.6	**63**	Q	75-125	**58**	Q	35
General Chemistry - Westborough Lab Associated sample(s): 01,05 QC Batch ID: WG1586583-4 WG1586583-5 QC Sample: L2168269-14 Client ID: MS Sample												
Cyanide, Total	3.5	12	15	95		15	96		75-125	0		35

Lab Duplicate Analysis

Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168050
Report Date: 12/28/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,04-05 QC Batch ID: WG1582827-1 QC Sample: L2167753-02 Client ID: DUP Sample						
Solids, Total	86.2	86.9	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1583079-1 QC Sample: L2166418-06 Client ID: DUP Sample						
Solids, Total	77.0	75.4	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1583109-1 QC Sample: L2168056-01 Client ID: DUP Sample						
Solids, Total	81.3	82.7	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 06 QC Batch ID: WG1585569-2 QC Sample: L2168050-06 Client ID: COMP #6 (13,14,17)						
pH (H)	8.1	8.1	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 06 QC Batch ID: WG1586300-3 QC Sample: L2167932-01 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1586335-6 QC Sample: L2167681-03 Client ID: DUP Sample						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 06 QC Batch ID: WG1586503-3 QC Sample: L2167932-01 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168050
Report Date: 12/28/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2168050-01A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2168050-01B	Vial water preserved	A	NA		2.7	Y	Absent	11-DEC-21 17:54	NYTCL-8260HLW(14)
L2168050-01C	Vial water preserved	A	NA		2.7	Y	Absent	11-DEC-21 17:54	NYTCL-8260HLW(14)
L2168050-01D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2168050-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),CU-TI(180),CO-TI(180),V-TI(180),MN-TI(180),HG-T(28),MG-TI(180),FE-TI(180),CD-TI(180),NA-TI(180),K-TI(180),CA-TI(180)
L2168050-01F	Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2168050-01G	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HEXCR-7196(30)
L2168050-01H	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2168050-02A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2168050-02B	Vial water preserved	A	NA		2.7	Y	Absent	11-DEC-21 17:54	NYTCL-8260HLW(14)
L2168050-02C	Vial water preserved	A	NA		2.7	Y	Absent	11-DEC-21 17:54	NYTCL-8260HLW(14)
L2168050-02D	Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		TS(7)
L2168050-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),MG-TI(180),HG-T(28),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2168050-02F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2168050-02G	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HEXCR-7196(30)
L2168050-02H	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2168050-03A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168050
Report Date: 12/28/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2168050-03B	Vial water preserved	A	NA		2.7	Y	Absent	11-DEC-21 17:54	NYTCL-8260HLW(14)
L2168050-03C	Vial water preserved	A	NA		2.7	Y	Absent	11-DEC-21 17:54	NYTCL-8260HLW(14)
L2168050-03D	Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		TS(7)
L2168050-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-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),SE-TI(180),PB-TI(180),V-TI(180),CO-TI(180),HG-T(28),MN-TI(180),MG-TI(180),FE-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2168050-03F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HEXCR-7196(30)
L2168050-03G	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2168050-04A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2168050-04B	Vial water preserved	A	NA		2.7	Y	Absent	11-DEC-21 17:54	NYTCL-8260HLW(14)
L2168050-04C	Vial water preserved	A	NA		2.7	Y	Absent	11-DEC-21 17:55	NYTCL-8260HLW(14)
L2168050-04D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2168050-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2168050-04F	Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365)
L2168050-04G	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HEXCR-7196(30)
L2168050-04H	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365)
L2168050-05A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2168050-05B	Vial water preserved	A	NA		2.7	Y	Absent	11-DEC-21 17:55	NYTCL-8260HLW(14)
L2168050-05C	Vial water preserved	A	NA		2.7	Y	Absent	11-DEC-21 17:55	NYTCL-8260HLW(14)
L2168050-05D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2168050-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	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),PB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),CO-TI(180),V-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)
L2168050-05F	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)

*Values in parentheses indicate holding time in days

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168050
Report Date: 12/28/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2168050-05G	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HEXCR-7196(30)
L2168050-05H	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2168050-06A	Vial Large Septa unpreserved (4oz)	A	NA		2.7	Y	Absent		TCLP-EXT-ZHE(14)
L2168050-06B	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		IGNIT-1030(14),REACTS(14),PH-9045(1),REACTCN(14)
L2168050-06W	Amber 1000ml unpreserved Extracts	A	NA		2.7	Y	Absent		TCLP-8270(14),PEST-TCLP*(14),HERB-TCLP*(14)
L2168050-06X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.7	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2168050-06X9	Tumble Vessel	A	NA		2.7	Y	Absent		-
L2168050-06Y	Vial unpreserved Extracts	A	NA		2.7	Y	Absent		TCLP-VOA(14)
L2168050-06Z	Vial unpreserved Extracts	A	NA		2.7	Y	Absent		TCLP-VOA(14)

*Values in parentheses indicate holding time in days

Project Name:	BATTERY PARK	**Lab Number:**	L2168050
Project Number:	20-1152	**Report Date:**	12/28/21

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:	BATTERY PARK	**Lab Number:**	L2168050
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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. 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.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	BATTERY PARK	**Lab Number:**	L2168050
Project Number:	20-1152	**Report Date:**	12/28/21

Data Qualifiers

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.)

Project Name:	BATTERY PARK	**Lab Number:**	L2168050
Project Number:	20-1152	**Report Date:**	12/28/21

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.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

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 of

Date Rec'd in Lab: 12/10/21

ALPHA Job #: L2168050

Client Information
Client: Matrix
Address: 333 W 39th St New York NY
Phone:
Fax:
Email: BCrespi@MNWE.com

Project Information
Project Name: Battery Park
Project Location: Manhattan NY
Project #: 20-1152
(Use Project name as Project #)
Project Manager: Brian Crespi
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

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	TCL VOC	TCL SVOC	TCL PCB	TCL Metals	Cyanide/hexa-chromium	Herbicides	Full TCLP	RCRA Characteristics	Sample Specific Comments	Total Bottle
68050-01	SB11 1-3'	12-10-21	0845			X	X	X	X	X					
02	SB13 1-3'	↓	0915			X	X	X	X	X	X				
03	SB13 1-3' Dup	↓	0930			X	X	X	X	X					
04	SB13 5.5-7.5'	↓	0945			X	X	X	X	X					
05	SB14 2-4'	↓	1100			X	X	X	X	X					
06	Comp #6 (13,14,17)	↓	1130									X	X		

Container Type
Preservative

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
12-10-21	12/10/21 12:45		12/10/21 12:45
	12/10/21 18:00		12/10/21 1855
	12/10/21	AAL	12/10/21 21:30
AAL 12/10/21	23:45		12/10/21 2345

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)

ANALYTICAL REPORT

Lab Number:	L2168372
Client:	Matrix New World Engineering, Inc. 333 West 39th Street, Second Floor New York City, NY 10018
ATTN:	Brian Crespi
Phone:	(212) 324-4251
Project Name:	BATTERY PARK
Project Number:	20-1152
Report Date:	12/29/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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

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

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168372
Report Date: 12/29/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2168372-01	SB-16 1.5-4.5	SOIL	MANHATTAN, NY	12/13/21 09:00	12/13/21
L2168372-02	SB-16 6.5-8.5	SOIL	MANHATTAN, NY	12/13/21 09:30	12/13/21
L2168372-03	SB-15 1-3	SOIL	MANHATTAN, NY	12/13/21 10:30	12/13/21
L2168372-04	SB-12 1-3	SOIL	MANHATTAN, NY	12/13/21 11:30	12/13/21
L2168372-05	COMP #7 (16,11)	SOIL	MANHATTAN, NY	12/13/21 10:00	12/13/21
L2168372-06	COMP #8 (15,12)	SOIL	MANHATTAN, NY	12/13/21 11:45	12/13/21

Project Name:	BATTERY PARK	**Lab Number:**	L2168372
Project Number:	20-1152	**Report Date:**	12/29/21

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:	BATTERY PARK	**Lab Number:**	L2168372
Project Number:	20-1152	**Report Date:**	12/29/21

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

L2168372-01 through -04: At the client's request, the Pesticides analysis was performed.

Semivolatile Organics

The WG1585209-2/-3 LCS/LCSD recoveries, associated with L2168372-01, are below the acceptance criteria for benzoic acid (5%/4%); however, it has been identified as a "difficult" analyte. The results of the associated sample are reported.

The WG1586325-2/-3 LCS/LCSD recoveries, associated with L2168372-02, -03 and -04, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

TCLP Semivolatiles

The WG1584313-2 LCS recovery, associated with L2168372-05 and -06, is below the acceptance criteria for pyridine (6%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Total Metals

L2168372-01 through -04: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

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: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 12/29/21

ORGANICS

VOLATILES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-01
Client ID: SB-16 1.5-4.5
Sample Location: MANHATTAN, NY
Date Collected: 12/13/21 09:00
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/21/21 22:09
Analyst: MV
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - 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	0.18	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	0.21	J	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	0.98	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

Project Name: BATTERY PARK **Lab Number:** L2168372

Project Number: 20-1152 **Report Date:** 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-01 Date Collected: 12/13/21 09:00

Client ID: SB-16 1.5-4.5 Date Received: 12/13/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
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	0.59	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	0.23	J	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
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.18	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.2	0.68	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-01
Client ID: SB-16 1.5-4.5
Sample Location: MANHATTAN, NY
Date Collected: 12/13/21 09:00
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	84	37.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.18	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	107		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-02
Client ID: SB-16 6.5-8.5
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 09:30
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/21/21 22:30
Analyst: MV
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.7	2.1	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	3.7	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
1,3-Dichloropropene, Total	ND		ug/kg	0.47	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.47	0.15	1
Bromoform	ND		ug/kg	3.7	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	3.7	0.87	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

Project Name: BATTERY PARK **Lab Number:** L2168372

Project Number: 20-1152 **Report Date:** 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-02 Date Collected: 12/13/21 09:30

Client ID: SB-16 6.5-8.5 Date Received: 12/13/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.47	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.13	1
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
Xylenes, Total	ND		ug/kg	0.94	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.94	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.94	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.22	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	4.2	1
2-Butanone	ND		ug/kg	9.4	2.1	1
Vinyl acetate	ND		ug/kg	9.4	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.4	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.4	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.94	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.47	0.12	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.94	0.16	1
sec-Butylbenzene	ND		ug/kg	0.94	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.93	1
Hexachlorobutadiene	ND		ug/kg	3.7	0.16	1
Isopropylbenzene	ND		ug/kg	0.94	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.94	0.10	1
Naphthalene	ND		ug/kg	3.7	0.61	1
Acrylonitrile	ND		ug/kg	3.7	1.1	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-02
Client ID: SB-16 6.5-8.5
Sample Location: MANHATTAN, NY
Date Collected: 12/13/21 09:30
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.94	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.31	1
1,4-Dioxane	ND		ug/kg	75	33.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.16	1
p-Ethyltoluene	ND		ug/kg	1.9	0.36	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.7	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	108		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-03
Client ID: SB-15 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/13/21 10:30
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/21/21 22:51
Analyst: MV
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	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	0.13	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	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.2	0.62	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: BATTERY PARK **Lab Number:** L2168372

Project Number: 20-1152 **Report Date:** 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-03 Date Collected: 12/13/21 10:30

Client ID: SB-15 1-3 Date Received: 12/13/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
Xylenes, Total	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.98	1
Acetone	ND		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.20	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.3	0.70	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-03
Client ID: SB-15 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/13/21 10:30
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	86	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.41	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.20	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	105		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-04
Client ID: SB-12 1-3
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 11:30
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/21/21 23:11
Analyst: MV
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	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	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.19	1
Benzene	ND		ug/kg	0.56	0.19	1
Toluene	ND		ug/kg	1.1	0.61	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.2	0.66	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.2	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1

Project Name: BATTERY PARK **Lab Number:** L2168372

Project Number: 20-1152 **Report Date:** 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-04 Date Collected: 12/13/21 11:30

Client ID: SB-12 1-3 Date Received: 12/13/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.23	1
p/m-Xylene	ND		ug/kg	2.2	0.63	1
o-Xylene	ND		ug/kg	1.1	0.33	1
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.22	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.5	0.73	1
Acrylonitrile	ND		ug/kg	4.5	1.3	1

Project Name: BATTERY PARK
Lab Number: L2168372
Project Number: 20-1152
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-04
Client ID: SB-12 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/13/21 11:30
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.38	1
1,4-Dioxane	ND		ug/kg	90	40.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.43	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.22	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	109		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-05
Client ID: COMP #7 (16,11)
Sample Location: MANHATTAN, NY
Date Collected: 12/13/21 10:00
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/15/21 20:55
Analyst: MM

TCLP/SPLP Ext. Date: 12/14/21 10:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	92		70-130
dibromofluoromethane	118		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-06
Client ID: COMP #8 (15,12)
Sample Location: MANHATTAN, NY
Date Collected: 12/13/21 11:45
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/15/21 21:24
Analyst: MM

TCLP/SPLP Ext. Date: 12/14/21 10:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	52		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	92		70-130
dibromofluoromethane	117		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/15/21 18:58
Analyst: TMS
TCLP/SPLP Extraction Date: 12/14/21 10:08

Extraction Date: 12/14/21 10:08

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 05-06 Batch: WG1583986-5					
Chloroform	ND		ug/l	7.5	2.2
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	94		70-130
dibromofluoromethane	113		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/21/21 18:22
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04 Batch: WG1586409-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/21/21 18:22
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04 Batch: WG1586409-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/21/21 18:22
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04 Batch: WG1586409-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 05-06 Batch: WG1583986-3 WG1583986-4								
Chloroform	99		98		70-130	1		20
Carbon tetrachloride	110		110		63-132	0		20
Tetrachloroethene	100		98		70-130	2		20
Chlorobenzene	100		98		75-130	2		25
1,2-Dichloroethane	96		96		70-130	0		20
Benzene	100		100		70-130	0		25
Vinyl chloride	110		100		55-140	10		20
1,1-Dichloroethene	110		110		61-145	0		25
Trichloroethene	110		100		70-130	10		25
1,4-Dichlorobenzene	92		93		70-130	1		20
2-Butanone	72		80		63-138	11		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		96		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	87		88		70-130
dibromofluoromethane	113		111		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168372

Report Date: 12/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1586409-3 WG1586409-4								
Methylene chloride	94		91		70-130	3		30
1,1-Dichloroethane	90		88		70-130	2		30
Chloroform	90		88		70-130	2		30
Carbon tetrachloride	98		94		70-130	4		30
1,2-Dichloropropane	90		90		70-130	0		30
Dibromochloromethane	90		95		70-130	5		30
1,1,2-Trichloroethane	86		91		70-130	6		30
Tetrachloroethene	105		102		70-130	3		30
Chlorobenzene	94		94		70-130	0		30
Trichlorofluoromethane	101		96		70-139	5		30
1,2-Dichloroethane	83		84		70-130	1		30
1,1,1-Trichloroethane	97		94		70-130	3		30
Bromodichloromethane	86		88		70-130	2		30
trans-1,3-Dichloropropene	91		96		70-130	5		30
cis-1,3-Dichloropropene	95		96		70-130	1		30
1,1-Dichloropropene	111		104		70-130	7		30
Bromoform	89		94		70-130	5		30
1,1,2,2-Tetrachloroethane	88		93		70-130	6		30
Benzene	95		93		70-130	2		30
Toluene	98		97		70-130	1		30
Ethylbenzene	100		98		70-130	2		30
Chloromethane	85		79		52-130	7		30
Bromomethane	99		89		57-147	11		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168372

Report Date: 12/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1586409-3 WG1586409-4								
Vinyl chloride	97		91		67-130	6		30
Chloroethane	93		91		50-151	2		30
1,1-Dichloroethene	103		97		65-135	6		30
trans-1,2-Dichloroethene	99		96		70-130	3		30
Trichloroethene	97		96		70-130	1		30
1,2-Dichlorobenzene	96		94		70-130	2		30
1,3-Dichlorobenzene	98		96		70-130	2		30
1,4-Dichlorobenzene	97		94		70-130	3		30
Methyl tert butyl ether	92		95		66-130	3		30
p/m-Xylene	103		102		70-130	1		30
o-Xylene	104		102		70-130	2		30
cis-1,2-Dichloroethene	96		93		70-130	3		30
Dibromomethane	85		88		70-130	3		30
Styrene	102		101		70-130	1		30
Dichlorodifluoromethane	95		89		30-146	7		30
Acetone	70		75		54-140	7		30
Carbon disulfide	96		90		59-130	6		30
2-Butanone	75		86		70-130	14		30
Vinyl acetate	87		92		70-130	6		30
4-Methyl-2-pentanone	77		84		70-130	9		30
1,2,3-Trichloropropane	86		90		68-130	5		30
2-Hexanone	79		94		70-130	17		30
Bromochloromethane	92		93		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168372

Report Date: 12/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1586409-3 WG1586409-4								
2,2-Dichloropropane	95		92		70-130	3		30
1,2-Dibromoethane	94		100		70-130	6		30
1,3-Dichloropropane	88		92		69-130	4		30
1,1,1,2-Tetrachloroethane	94		96		70-130	2		30
Bromobenzene	97		95		70-130	2		30
n-Butylbenzene	110		102		70-130	8		30
sec-Butylbenzene	112		106		70-130	6		30
tert-Butylbenzene	110		104		70-130	6		30
o-Chlorotoluene	121		115		70-130	5		30
p-Chlorotoluene	101		96		70-130	5		30
1,2-Dibromo-3-chloropropane	87		96		68-130	10		30
Hexachlorobutadiene	110		104		67-130	6		30
Isopropylbenzene	109		103		70-130	6		30
p-Isopropyltoluene	106		100		70-130	6		30
Naphthalene	100		103		70-130	3		30
Acrylonitrile	84		89		70-130	6		30
n-Propylbenzene	108		101		70-130	7		30
1,2,3-Trichlorobenzene	98		98		70-130	0		30
1,2,4-Trichlorobenzene	102		100		70-130	2		30
1,3,5-Trimethylbenzene	108		103		70-130	5		30
1,2,4-Trimethylbenzene	107		103		70-130	4		30
1,4-Dioxane	96		102		65-136	6		30
p-Diethylbenzene	115		107		70-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168372

Report Date: 12/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1586409-3 WG1586409-4								
p-Ethyltoluene	111		104		70-130	7		30
1,2,4,5-Tetramethylbenzene	94		91		70-130	3		30
Ethyl ether	91		94		67-130	3		30
trans-1,4-Dichloro-2-butene	86		90		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	85		85		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	105		103		70-130
Dibromofluoromethane	93		95		70-130

SEMIVOLATILES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-01
Client ID: SB-16 1.5-4.5
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 09:00
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/22/21 08:03
Analyst: IM
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 12/20/21 10:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	56	J	ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1

Project Name: BATTERY PARK **Lab Number:** L2168372

Project Number: 20-1152 **Report Date:** 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-01 Date Collected: 12/13/21 09:00

Client ID: SB-16 1.5-4.5 Date Received: 12/13/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	39	J	ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	43	J	ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	29	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	22	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	29	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	53	J	ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	22.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	830	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-01
Client ID: SB-16 1.5-4.5
Sample Location: MANHATTAN, NY
Date Collected: 12/13/21 09:00
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	95		25-120
Phenol-d6	101		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	109		10-136
4-Terphenyl-d14	93		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-02
Client ID: SB-16 6.5-8.5
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 09:30
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/22/21 20:56
Analyst: EK
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 12/21/21 22:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	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	97	J	ug/kg	110	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	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	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	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: BATTERY PARK **Lab Number:** L2168372

Project Number: 20-1152 **Report Date:** 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-02 Date Collected: 12/13/21 09:30

Client ID: SB-16 6.5-8.5 Date Received: 12/13/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	60	J	ug/kg	110	20.	1
Benzo(a)pyrene	66	J	ug/kg	140	43.	1
Benzo(b)fluoranthene	80	J	ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1
Chrysene	56	J	ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	110	34.	1
Benzo(ghi)perylene	74	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	65	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	55	J	ug/kg	140	25.	1
Pyrene	92	J	ug/kg	110	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	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		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	110	34.	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	67.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-02
Client ID: SB-16 6.5-8.5
Sample Location: MANHATTAN, NY
Date Collected: 12/13/21 09:30
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	78		10-136
4-Terphenyl-d14	72		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-03
Client ID: SB-15 1-3
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 10:30
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/22/21 21:19
Analyst: EK
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 12/21/21 22:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	23	J	ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: BATTERY PARK **Lab Number:** L2168372

Project Number: 20-1152 **Report Date:** 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-03 Date Collected: 12/13/21 10:30

Client ID: SB-15 1-3 Date Received: 12/13/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	19	J	ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	22	J	ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	22.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	82.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-03
Client ID: SB-15 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/13/21 10:30
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	79		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-04
Client ID: SB-12 1-3
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 11:30
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/22/21 21:43
Analyst: EK
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 12/21/21 22:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	35.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	64	J	ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1

Project Name: BATTERY PARK **Lab Number:** L2168372

Project Number: 20-1152 **Report Date:** 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-04 Date Collected: 12/13/21 11:30

Client ID: SB-12 1-3 Date Received: 12/13/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	40	J	ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	53	J	ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	40	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	27	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	34	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	28	J	ug/kg	140	24.	1
Pyrene	61	J	ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	23.	1
4-Chloroaniline	ND		ug/kg	170	32.	1
2-Nitroaniline	ND		ug/kg	170	34.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	380	65.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	830	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-04
Client ID: SB-12 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/13/21 11:30
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	180	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	8.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	72		10-136
4-Terphenyl-d14	68		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-05
Client ID: COMP #7 (16,11)
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 10:00
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/18/21 16:05
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 12/16/21 16:16

TCLP/SPLP Ext. Date: 12/15/21 05:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		21-120
Phenol-d6	65		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	90		10-120
4-Terphenyl-d14	83		33-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-06
Client ID: COMP #8 (15,12)
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 11:45
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/18/21 16:29
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 12/16/21 16:16

TCLP/SPLP Ext. Date: 12/15/21 05:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		21-120
Phenol-d6	67		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	92		10-120
4-Terphenyl-d14	87		33-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/18/21 11:49
Analyst: SLR
TCLP/SPLP Extraction Date: 12/14/21 22:06

Extraction Method: EPA 3510C
Extraction Date: 12/16/21 16:16

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 05-06 Batch: WG1584313-1					
Hexachlorobenzene	ND		ug/l	10	3.4
2,4-Dinitrotoluene	ND		ug/l	25	1.9
Hexachlorobutadiene	ND		ug/l	10	3.0
Hexachloroethane	ND		ug/l	10	2.2
Nitrobenzene	ND		ug/l	10	3.3
2,4,6-Trichlorophenol	ND		ug/l	25	2.5
Pentachlorophenol	ND		ug/l	50	9.8
2-Methylphenol	ND		ug/l	25	5.5
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8
2,4,5-Trichlorophenol	ND		ug/l	25	1.9
Pyridine	ND		ug/l	18	4.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	97		21-120
Phenol-d6	79		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	89		15-120
2,4,6-Tribromophenol	102		10-120
4-Terphenyl-d14	99		33-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/22/21 02:55
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 12/19/21 12:55

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1585209-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/22/21 02:55
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 12/19/21 12:55

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1585209-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	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	61.

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/22/21 02:55
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 12/19/21 12:55

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1585209-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	51		10-136
4-Terphenyl-d14	71		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/22/21 18:37
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 12/21/21 22:01

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-04 Batch: WG1586325-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/22/21 18:37
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 12/21/21 22:01

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-04 Batch: WG1586325-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	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	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/22/21 18:37
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 12/21/21 22:01

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-04 Batch: WG1586325-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	74		10-136
4-Terphenyl-d14	67		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 05-06 Batch: WG1584313-2 WG1584313-3								
Hexachlorobenzene	88		95		40-140	8		30
2,4-Dinitrotoluene	88		92		40-132	4		30
Hexachlorobutadiene	83		74		28-111	11		30
Hexachloroethane	67		58		21-105	14		30
Nitrobenzene	76		78		40-140	3		30
2,4,6-Trichlorophenol	95		102		30-130	7		30
Pentachlorophenol	84		95		9-103	12		30
2-Methylphenol	82		85		30-130	4		30
3-Methylphenol/4-Methylphenol	83		88		30-130	6		30
2,4,5-Trichlorophenol	99		105		30-130	6		30
Pyridine	**6**	Q	18		10-66	**103**	Q	30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	93		94		21-120
Phenol-d6	79		84		10-120
Nitrobenzene-d5	84		87		23-120
2-Fluorobiphenyl	84		89		15-120
2,4,6-Tribromophenol	97		104		10-120
4-Terphenyl-d14	91		98		33-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168372
Report Date: 12/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1585209-2 WG1585209-3								
Acenaphthene	68		74		31-137	8		50
1,2,4-Trichlorobenzene	57		62		38-107	8		50
Hexachlorobenzene	68		74		40-140	8		50
Bis(2-chloroethyl)ether	63		68		40-140	8		50
2-Chloronaphthalene	64		70		40-140	9		50
1,2-Dichlorobenzene	62		66		40-140	6		50
1,3-Dichlorobenzene	60		64		40-140	6		50
1,4-Dichlorobenzene	59		65		28-104	10		50
3,3'-Dichlorobenzidine	47		49		40-140	4		50
2,4-Dinitrotoluene	65		72		40-132	10		50
2,6-Dinitrotoluene	59		67		40-140	13		50
Fluoranthene	66		73		40-140	10		50
4-Chlorophenyl phenyl ether	60		66		40-140	10		50
4-Bromophenyl phenyl ether	63		68		40-140	8		50
Bis(2-chloroisopropyl)ether	52		56		40-140	7		50
Bis(2-chloroethoxy)methane	62		68		40-117	9		50
Hexachlorobutadiene	62		67		40-140	8		50
Hexachlorocyclopentadiene	48		54		40-140	12		50
Hexachloroethane	64		71		40-140	10		50
Isophorone	62		67		40-140	8		50
Naphthalene	67		72		40-140	7		50
Nitrobenzene	65		69		40-140	6		50
NDPA/DPA	64		71		36-157	10		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168372

Report Date: 12/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1585209-2 WG1585209-3								
n-Nitrosodi-n-propylamine	60		65		32-121	8		50
Bis(2-ethylhexyl)phthalate	80		92		40-140	14		50
Butyl benzyl phthalate	81		90		40-140	11		50
Di-n-butylphthalate	77		88		40-140	13		50
Di-n-octylphthalate	85		95		40-140	11		50
Diethyl phthalate	72		80		40-140	11		50
Dimethyl phthalate	64		71		40-140	10		50
Benzo(a)anthracene	63		70		40-140	11		50
Benzo(a)pyrene	60		65		40-140	8		50
Benzo(b)fluoranthene	67		72		40-140	7		50
Benzo(k)fluoranthene	65		71		40-140	9		50
Chrysene	59		65		40-140	10		50
Acenaphthylene	63		69		40-140	9		50
Anthracene	66		73		40-140	10		50
Benzo(ghi)perylene	67		74		40-140	10		50
Fluorene	66		71		40-140	7		50
Phenanthrene	69		75		40-140	8		50
Dibenzo(a,h)anthracene	68		75		40-140	10		50
Indeno(1,2,3-cd)pyrene	68		76		40-140	11		50
Pyrene	66		73		35-142	10		50
Biphenyl	65		70		37-127	7		50
4-Chloroaniline	66		72		40-140	9		50
2-Nitroaniline	65		73		47-134	12		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168372
Report Date: 12/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1585209-2 WG1585209-3								
3-Nitroaniline	59		63		26-129	7		50
4-Nitroaniline	63		72		41-125	13		50
Dibenzofuran	69		74		40-140	7		50
2-Methylnaphthalene	64		69		40-140	8		50
1,2,4,5-Tetrachlorobenzene	61		67		40-117	9		50
Acetophenone	66		72		14-144	9		50
2,4,6-Trichlorophenol	60		66		30-130	10		50
p-Chloro-m-cresol	71		78		26-103	9		50
2-Chlorophenol	67		74		25-102	10		50
2,4-Dichlorophenol	65		71		30-130	9		50
2,4-Dimethylphenol	67		72		30-130	7		50
2-Nitrophenol	61		67		30-130	9		50
4-Nitrophenol	70		81		11-114	15		50
2,4-Dinitrophenol	43		46		4-130	7		50
4,6-Dinitro-o-cresol	59		68		10-130	14		50
Pentachlorophenol	58		63		17-109	8		50
Phenol	67		72		26-90	7		50
2-Methylphenol	68		75		30-130.	10		50
3-Methylphenol/4-Methylphenol	73		79		30-130	8		50
2,4,5-Trichlorophenol	62		70		30-130	12		50
Benzoic Acid	**5**	Q	**4**	Q	10-110	22		50
Benzyl Alcohol	67		72		40-140	7		50
Carbazole	70		77		54-128	10		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168372

Report Date: 12/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1585209-2 WG1585209-3								
1,4-Dioxane	52		54		40-140	4		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	72		75		25-120
Phenol-d6	72		77		10-120
Nitrobenzene-d5	62		66		23-120
2-Fluorobiphenyl	64		66		30-120
2,4,6-Tribromophenol	70		74		10-136
4-Terphenyl-d14	64		71		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-04 Batch: WG1586325-2 WG1586325-3								
Acenaphthene	59		67		31-137	13		50
1,2,4-Trichlorobenzene	59		70		38-107	17		50
Hexachlorobenzene	67		76		40-140	13		50
Bis(2-chloroethyl)ether	53		63		40-140	17		50
2-Chloronaphthalene	63		73		40-140	15		50
1,2-Dichlorobenzene	61		72		40-140	17		50
1,3-Dichlorobenzene	60		70		40-140	15		50
1,4-Dichlorobenzene	60		69		28-104	14		50
3,3'-Dichlorobenzidine	47		55		40-140	16		50
2,4-Dinitrotoluene	64		75		40-132	16		50
2,6-Dinitrotoluene	73		81		40-140	10		50
Fluoranthene	62		70		40-140	12		50
4-Chlorophenyl phenyl ether	63		73		40-140	15		50
4-Bromophenyl phenyl ether	68		75		40-140	10		50
Bis(2-chloroisopropyl)ether	64		78		40-140	20		50
Bis(2-chloroethoxy)methane	55		64		40-117	15		50
Hexachlorobutadiene	66		79		40-140	18		50
Hexachlorocyclopentadiene	52		66		40-140	24		50
Hexachloroethane	60		71		40-140	17		50
Isophorone	51		60		40-140	16		50
Naphthalene	62		73		40-140	16		50
Nitrobenzene	57		66		40-140	15		50
NDPA/DPA	62		71		36-157	14		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168372

Report Date: 12/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-04 Batch: WG1586325-2 WG1586325-3								
n-Nitrosodi-n-propylamine	53		63		32-121	17		50
Bis(2-ethylhexyl)phthalate	71		78		40-140	9		50
Butyl benzyl phthalate	64		70		40-140	9		50
Di-n-butylphthalate	63		69		40-140	9		50
Di-n-octylphthalate	68		75		40-140	10		50
Diethyl phthalate	63		70		40-140	11		50
Dimethyl phthalate	63		70		40-140	11		50
Benzo(a)anthracene	65		72		40-140	10		50
Benzo(a)pyrene	61		68		40-140	11		50
Benzo(b)fluoranthene	66		73		40-140	10		50
Benzo(k)fluoranthene	62		71		40-140	14		50
Chrysene	62		70		40-140	12		50
Acenaphthylene	62		68		40-140	9		50
Anthracene	62		68		40-140	9		50
Benzo(ghi)perylene	67		77		40-140	14		50
Fluorene	64		73		40-140	13		50
Phenanthrene	62		67		40-140	8		50
Dibenzo(a,h)anthracene	64		74		40-140	14		50
Indeno(1,2,3-cd)pyrene	65		75		40-140	14		50
Pyrene	61		66		35-142	8		50
Biphenyl	59		69		37-127	16		50
4-Chloroaniline	45		52		40-140	14		50
2-Nitroaniline	74		83		47-134	11		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-04 Batch: WG1586325-2 WG1586325-3								
3-Nitroaniline	57		62		26-129	8		50
4-Nitroaniline	61		70		41-125	14		50
Dibenzofuran	64		73		40-140	13		50
2-Methylnaphthalene	63		70		40-140	11		50
1,2,4,5-Tetrachlorobenzene	65		74		40-117	13		50
Acetophenone	52		62		14-144	18		50
2,4,6-Trichlorophenol	73		82		30-130	12		50
p-Chloro-m-cresol	68		77		26-103	12		50
2-Chlorophenol	63		74		25-102	16		50
2,4-Dichlorophenol	69		79		30-130	14		50
2,4-Dimethylphenol	58		68		30-130	16		50
2-Nitrophenol	72		86		30-130	18		50
4-Nitrophenol	61		69		11-114	12		50
2,4-Dinitrophenol	45		55		4-130	20		50
4,6-Dinitro-o-cresol	73		85		10-130	15		50
Pentachlorophenol	57		65		17-109	13		50
Phenol	57		67		26-90	16		50
2-Methylphenol	62		72		30-130.	15		50
3-Methylphenol/4-Methylphenol	66		77		30-130	15		50
2,4,5-Trichlorophenol	74		86		30-130	15		50
Benzoic Acid	**0**	Q	**0**	Q	10-110	NC		50
Benzyl Alcohol	55		66		40-140	18		50
Carbazole	62		68		54-128	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168372

Report Date: 12/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-04 Batch: WG1586325-2 WG1586325-3								
1,4-Dioxane	42		46		40-140	9		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	67		83		25-120
Phenol-d6	62		75		10-120
Nitrobenzene-d5	58		72		23-120
2-Fluorobiphenyl	63		75		30-120
2,4,6-Tribromophenol	68		83		10-136
4-Terphenyl-d14	60		71		18-120

PCBS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-01
Client ID: SB-16 1.5-4.5
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 09:00
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/22/21 20:01
Analyst: JAW
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 12/22/21 01:43
Cleanup Method: EPA 3665A
Cleanup Date: 12/22/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/22/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.4	3.05	1	A
Aroclor 1221	ND		ug/kg	34.4	3.45	1	A
Aroclor 1232	ND		ug/kg	34.4	7.29	1	A
Aroclor 1242	ND		ug/kg	34.4	4.64	1	A
Aroclor 1248	ND		ug/kg	34.4	5.16	1	A
Aroclor 1254	ND		ug/kg	34.4	3.76	1	A
Aroclor 1260	ND		ug/kg	34.4	6.36	1	A
Aroclor 1262	ND		ug/kg	34.4	4.37	1	A
Aroclor 1268	ND		ug/kg	34.4	3.56	1	A
PCBs, Total	ND		ug/kg	34.4	3.05	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-02
Client ID: SB-16 6.5-8.5
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 09:30
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/22/21 20:08
Analyst: JAW
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 12/22/21 01:43
Cleanup Method: EPA 3665A
Cleanup Date: 12/22/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/22/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.0	3.02	1	A
Aroclor 1221	ND		ug/kg	34.0	3.41	1	A
Aroclor 1232	ND		ug/kg	34.0	7.22	1	A
Aroclor 1242	ND		ug/kg	34.0	4.59	1	A
Aroclor 1248	ND		ug/kg	34.0	5.11	1	A
Aroclor 1254	ND		ug/kg	34.0	3.72	1	A
Aroclor 1260	ND		ug/kg	34.0	6.29	1	A
Aroclor 1262	ND		ug/kg	34.0	4.32	1	A
Aroclor 1268	ND		ug/kg	34.0	3.53	1	A
PCBs, Total	ND		ug/kg	34.0	3.02	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-03
Client ID: SB-15 1-3
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 10:30
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/22/21 20:15
Analyst: JAW
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 12/22/21 01:43
Cleanup Method: EPA 3665A
Cleanup Date: 12/22/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/22/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.4	2.96	1	A
Aroclor 1221	ND		ug/kg	33.4	3.34	1	A
Aroclor 1232	ND		ug/kg	33.4	7.08	1	A
Aroclor 1242	ND		ug/kg	33.4	4.50	1	A
Aroclor 1248	ND		ug/kg	33.4	5.01	1	A
Aroclor 1254	ND		ug/kg	33.4	3.65	1	A
Aroclor 1260	ND		ug/kg	33.4	6.17	1	A
Aroclor 1262	ND		ug/kg	33.4	4.24	1	A
Aroclor 1268	ND		ug/kg	33.4	3.46	1	A
PCBs, Total	ND		ug/kg	33.4	2.96	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	48		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	55		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-04
Client ID: SB-12 1-3
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 11:30
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/22/21 20:22
Analyst: JAW
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 12/22/21 01:43
Cleanup Method: EPA 3665A
Cleanup Date: 12/22/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/22/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	32.9	2.92	1	A
Aroclor 1221	ND		ug/kg	32.9	3.30	1	A
Aroclor 1232	ND		ug/kg	32.9	6.98	1	A
Aroclor 1242	ND		ug/kg	32.9	4.44	1	A
Aroclor 1248	ND		ug/kg	32.9	4.94	1	A
Aroclor 1254	ND		ug/kg	32.9	3.60	1	A
Aroclor 1260	ND		ug/kg	32.9	6.08	1	A
Aroclor 1262	ND		ug/kg	32.9	4.18	1	A
Aroclor 1268	ND		ug/kg	32.9	3.41	1	A
PCBs, Total	ND		ug/kg	32.9	2.92	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 12/22/21 11:20
Analyst: CW

Extraction Method: EPA 3546
Extraction Date: 12/21/21 12:44
Cleanup Method: EPA 3665A
Cleanup Date: 12/21/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/22/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-04 Batch: WG1586084-1						
Aroclor 1016	ND		ug/kg	31.5	2.79	A
Aroclor 1221	ND		ug/kg	31.5	3.15	A
Aroclor 1232	ND		ug/kg	31.5	6.67	A
Aroclor 1242	ND		ug/kg	31.5	4.24	A
Aroclor 1248	ND		ug/kg	31.5	4.72	A
Aroclor 1254	ND		ug/kg	31.5	3.44	A
Aroclor 1260	ND		ug/kg	31.5	5.81	A
Aroclor 1262	ND		ug/kg	31.5	4.00	A
Aroclor 1268	ND		ug/kg	31.5	3.26	A
PCBs, Total	ND		ug/kg	31.5	2.79	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	95		30-150	A
2,4,5,6-Tetrachloro-m-xylene	104		30-150	B
Decachlorobiphenyl	87		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168372

Report Date: 12/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1586084-2 WG1586084-3									
Aroclor 1016	78		85		40-140	9		50	A
Aroclor 1260	78		85		40-140	9		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		99		30-150	A
Decachlorobiphenyl	86		95		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		100		30-150	B
Decachlorobiphenyl	81		89		30-150	B

PESTICIDES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-01
Client ID: SB-16 1.5-4.5
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 09:00
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/22/21 16:38
Analyst: JAW
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 12/20/21 09:14
Cleanup Method: EPA 3620B
Cleanup Date: 12/22/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.66	0.325	1	A
Lindane	ND		ug/kg	0.691	0.309	1	A
Alpha-BHC	ND		ug/kg	0.691	0.196	1	A
Beta-BHC	ND		ug/kg	1.66	0.628	1	A
Heptachlor	ND		ug/kg	0.829	0.372	1	A
Aldrin	ND		ug/kg	1.66	0.584	1	A
Heptachlor epoxide	ND		ug/kg	3.11	0.932	1	A
Endrin	ND		ug/kg	0.691	0.283	1	A
Endrin aldehyde	ND		ug/kg	2.07	0.725	1	A
Endrin ketone	ND		ug/kg	1.66	0.427	1	A
Dieldrin	ND		ug/kg	1.04	0.518	1	A
4,4'-DDE	ND		ug/kg	1.66	0.383	1	A
4,4'-DDD	ND		ug/kg	1.66	0.591	1	A
4,4'-DDT	ND		ug/kg	3.11	1.33	1	A
Endosulfan I	ND		ug/kg	1.66	0.392	1	A
Endosulfan II	ND		ug/kg	1.66	0.554	1	A
Endosulfan sulfate	ND		ug/kg	0.691	0.329	1	A
Methoxychlor	ND		ug/kg	3.11	0.967	1	A
Toxaphene	ND		ug/kg	31.1	8.70	1	A
cis-Chlordane	ND		ug/kg	2.07	0.577	1	A
trans-Chlordane	ND		ug/kg	2.07	0.547	1	A
Chlordane	ND		ug/kg	13.8	5.49	1	A

Project Name: BATTERY PARK
Lab Number: L2168372
Project Number: 20-1152
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-01
Client ID: SB-16 1.5-4.5
Sample Location: MANHATTAN, NY
Date Collected: 12/13/21 09:00
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-02
Client ID: SB-16 6.5-8.5
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 09:30
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/24/21 10:59
Analyst: JAW
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 12/22/21 02:24
Cleanup Method: EPA 3620B
Cleanup Date: 12/24/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.71	0.335	1	A
Lindane	ND		ug/kg	0.713	0.318	1	A
Alpha-BHC	ND		ug/kg	0.713	0.202	1	A
Beta-BHC	ND		ug/kg	1.71	0.648	1	A
Heptachlor	ND		ug/kg	0.855	0.383	1	A
Aldrin	ND		ug/kg	1.71	0.602	1	A
Heptachlor epoxide	ND		ug/kg	3.21	0.962	1	A
Endrin	ND		ug/kg	0.713	0.292	1	A
Endrin aldehyde	ND		ug/kg	2.14	0.748	1	A
Endrin ketone	ND		ug/kg	1.71	0.440	1	A
Dieldrin	ND		ug/kg	1.07	0.534	1	A
4,4'-DDE	ND		ug/kg	1.71	0.396	1	A
4,4'-DDD	ND		ug/kg	1.71	0.610	1	A
4,4'-DDT	2.64	J	ug/kg	3.21	1.38	1	A
Endosulfan I	ND		ug/kg	1.71	0.404	1	A
Endosulfan II	ND		ug/kg	1.71	0.572	1	A
Endosulfan sulfate	ND		ug/kg	0.713	0.339	1	A
Methoxychlor	ND		ug/kg	3.21	0.998	1	A
Toxaphene	ND		ug/kg	32.1	8.98	1	A
cis-Chlordane	ND		ug/kg	2.14	0.596	1	A
trans-Chlordane	ND		ug/kg	2.14	0.564	1	A
Chlordane	ND		ug/kg	14.2	5.66	1	A

Project Name: BATTERY PARK
Lab Number: L2168372
Project Number: 20-1152
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-02
Client ID: SB-16 6.5-8.5
Sample Location: MANHATTAN, NY
Date Collected: 12/13/21 09:30
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-03
Client ID: SB-15 1-3
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 10:30
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/24/21 10:46
Analyst: JAW
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 12/22/21 02:24
Cleanup Method: EPA 3620B
Cleanup Date: 12/24/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.68	0.328	1	A
Lindane	ND		ug/kg	0.698	0.312	1	A
Alpha-BHC	ND		ug/kg	0.698	0.198	1	A
Beta-BHC	ND		ug/kg	1.68	0.635	1	A
Heptachlor	ND		ug/kg	0.838	0.376	1	A
Aldrin	ND		ug/kg	1.68	0.590	1	A
Heptachlor epoxide	ND		ug/kg	3.14	0.942	1	A
Endrin	ND		ug/kg	0.698	0.286	1	A
Endrin aldehyde	ND		ug/kg	2.09	0.733	1	A
Endrin ketone	ND		ug/kg	1.68	0.431	1	A
Dieldrin	ND		ug/kg	1.05	0.524	1	A
4,4'-DDE	1.46	J	ug/kg	1.68	0.387	1	B
4,4'-DDD	ND		ug/kg	1.68	0.598	1	A
4,4'-DDT	1.95	J	ug/kg	3.14	1.35	1	B
Endosulfan I	ND		ug/kg	1.68	0.396	1	A
Endosulfan II	ND		ug/kg	1.68	0.560	1	A
Endosulfan sulfate	ND		ug/kg	0.698	0.332	1	A
Methoxychlor	ND		ug/kg	3.14	0.977	1	A
Toxaphene	ND		ug/kg	31.4	8.80	1	A
cis-Chlordane	ND		ug/kg	2.09	0.584	1	A
trans-Chlordane	ND		ug/kg	2.09	0.553	1	A
Chlordane	ND		ug/kg	14.0	5.55	1	A

Project Name: BATTERY PARK
Lab Number: L2168372
Project Number: 20-1152
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-03
Client ID: SB-15 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/13/21 10:30
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	91		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-03
Client ID: SB-15 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/13/21 10:30
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/23/21 15:24
Analyst: EJL
Percent Solids: 94%
Methylation Date: 12/18/21 16:16
Extraction Method: EPA 8151A
Extraction Date: 12/17/21 00:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	176	11.1	1	A
2,4,5-T	ND		ug/kg	176	5.47	1	A
2,4,5-TP (Silvex)	ND		ug/kg	176	4.69	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	108		30-150	A
DCAA	100		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-04
Client ID: SB-12 1-3
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 11:30
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/24/21 11:12
Analyst: JAW
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 12/22/21 02:24
Cleanup Method: EPA 3620B
Cleanup Date: 12/24/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.64	0.322	1	A
Lindane	ND		ug/kg	0.686	0.306	1	A
Alpha-BHC	ND		ug/kg	0.686	0.195	1	A
Beta-BHC	ND		ug/kg	1.64	0.624	1	A
Heptachlor	ND		ug/kg	0.823	0.369	1	A
Aldrin	ND		ug/kg	1.64	0.579	1	A
Heptachlor epoxide	ND		ug/kg	3.08	0.926	1	A
Endrin	ND		ug/kg	0.686	0.281	1	A
Endrin aldehyde	ND		ug/kg	2.06	0.720	1	A
Endrin ketone	ND		ug/kg	1.64	0.424	1	A
Dieldrin	ND		ug/kg	1.03	0.514	1	A
4,4'-DDE	ND		ug/kg	1.64	0.380	1	A
4,4'-DDD	ND		ug/kg	1.64	0.587	1	A
4,4'-DDT	ND		ug/kg	3.08	1.32	1	A
Endosulfan I	ND		ug/kg	1.64	0.389	1	A
Endosulfan II	ND		ug/kg	1.64	0.550	1	A
Endosulfan sulfate	ND		ug/kg	0.686	0.326	1	A
Methoxychlor	ND		ug/kg	3.08	0.960	1	A
Toxaphene	ND		ug/kg	30.8	8.64	1	A
cis-Chlordane	ND		ug/kg	2.06	0.573	1	A
trans-Chlordane	ND		ug/kg	2.06	0.543	1	A
Chlordane	ND		ug/kg	13.7	5.45	1	A

Project Name: BATTERY PARK
Lab Number: L2168372
Project Number: 20-1152
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-04
Client ID: SB-12 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/13/21 11:30
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-05
Client ID: COMP #7 (16,11)
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 10:00
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/18/21 12:52
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 12/16/21 16:17

TCLP/SPLP Ext. Date: 12/15/21 05:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Pesticides by EPA 1311 - Westborough Lab							
Lindane	ND		ug/l	0.100	0.022	1	A
Heptachlor	ND		ug/l	0.100	0.016	1	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	1	A
Endrin	ND		ug/l	0.200	0.021	1	A
Methoxychlor	ND		ug/l	1.00	0.034	1	A
Toxaphene	ND		ug/l	1.00	0.314	1	A
Chlordane	ND		ug/l	1.00	0.232	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	101		30-150	A
Decachlorobiphenyl	100		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-05
Client ID: COMP #7 (16,11)
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 10:00
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/27/21 16:39
Analyst: AR

Extraction Method: EPA 8151A
Extraction Date: 12/18/21 01:03

TCLP/SPLP Ext. Date: 12/15/21 05:54
Methylation Date: 12/18/21 10:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Herbicides by EPA 1311 - Westborough Lab							
2,4-D	ND		mg/l	0.025	0.001	1	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	81		30-150	A
DCAA	73		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-06
Client ID: COMP #8 (15,12)
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 11:45
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/18/21 13:02
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 12/16/21 16:17

TCLP/SPLP Ext. Date: 12/15/21 05:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Pesticides by EPA 1311 - Westborough Lab							
Lindane	ND		ug/l	0.100	0.022	1	A
Heptachlor	ND		ug/l	0.100	0.016	1	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	1	A
Endrin	ND		ug/l	0.200	0.021	1	A
Methoxychlor	ND		ug/l	1.00	0.034	1	A
Toxaphene	ND		ug/l	1.00	0.314	1	A
Chlordane	ND		ug/l	1.00	0.232	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	108		30-150	A
Decachlorobiphenyl	107		30-150	A
2,4,5,6-Tetrachloro-m-xylene	97		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-06
Client ID: COMP #8 (15,12)
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 11:45
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/27/21 16:57
Analyst: AR

Extraction Method: EPA 8151A
Extraction Date: 12/18/21 01:03

TCLP/SPLP Ext. Date: 12/15/21 05:54
Methylation Date: 12/18/21 10:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Herbicides by EPA 1311 - Westborough Lab							
2,4-D	ND		mg/l	0.025	0.001	1	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	78		30-150	A
DCAA	69		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/18/21 12:21
Analyst: EJL
TCLP/SPLP Extraction Date: 12/14/21 22:06

Extraction Method: EPA 3510C
Extraction Date: 12/16/21 16:17

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Pesticides by EPA 1311 - Westborough Lab for sample(s): 05-06 Batch: WG1584314-1						
Lindane	ND		ug/l	0.100	0.022	A
Heptachlor	ND		ug/l	0.100	0.016	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	A
Endrin	ND		ug/l	0.200	0.021	A
Methoxychlor	ND		ug/l	1.00	0.034	A
Toxaphene	ND		ug/l	1.00	0.314	A
Chlordane	ND		ug/l	1.00	0.232	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	102		30-150	A
Decachlorobiphenyl	111		30-150	A
2,4,5,6-Tetrachloro-m-xylene	97		30-150	B
Decachlorobiphenyl	96		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 12/18/21 12:37
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 12/16/21 23:58

Methylation Date: 12/17/21 19:57

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 03 Batch: WG1584444-1						
2,4-D	ND		ug/kg	165	10.4	A
2,4,5-T	ND		ug/kg	165	5.10	A
2,4,5-TP (Silvex)	ND		ug/kg	165	4.38	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	93		30-150	A
DCAA	94		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 12/21/21 22:47
Analyst: AR
TCLP/SPLP Extraction Date: 12/14/21 22:06
Methylation Date: 12/18/21 10:51

Extraction Method: EPA 8151A
Extraction Date: 12/18/21 01:03

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Herbicides by EPA 1311 - Westborough Lab for sample(s): 05-06 Batch: WG1584871-1						
2,4-D	ND		mg/l	0.025	0.001	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	76		30-150	A
DCAA	64		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/22/21 15:57
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 12/20/21 09:14
Cleanup Method: EPA 3620B
Cleanup Date: 12/22/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1585419-1						
Delta-BHC	ND		ug/kg	1.58	0.310	A
Lindane	ND		ug/kg	0.660	0.295	A
Alpha-BHC	ND		ug/kg	0.660	0.187	A
Beta-BHC	ND		ug/kg	1.58	0.600	A
Heptachlor	ND		ug/kg	0.792	0.355	A
Aldrin	ND		ug/kg	1.58	0.557	A
Heptachlor epoxide	ND		ug/kg	2.97	0.890	A
Endrin	ND		ug/kg	0.660	0.270	A
Endrin aldehyde	ND		ug/kg	1.98	0.693	A
Endrin ketone	ND		ug/kg	1.58	0.408	A
Dieldrin	ND		ug/kg	0.989	0.495	A
4,4'-DDE	ND		ug/kg	1.58	0.366	A
4,4'-DDD	ND		ug/kg	1.58	0.565	A
4,4'-DDT	ND		ug/kg	2.97	1.27	A
Endosulfan I	ND		ug/kg	1.58	0.374	A
Endosulfan II	ND		ug/kg	1.58	0.529	A
Endosulfan sulfate	ND		ug/kg	0.660	0.314	A
Methoxychlor	ND		ug/kg	2.97	0.923	A
Toxaphene	ND		ug/kg	29.7	8.31	A
cis-Chlordane	ND		ug/kg	1.98	0.551	A
trans-Chlordane	ND		ug/kg	1.98	0.522	A
Chlordane	ND		ug/kg	13.2	5.24	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/22/21 15:57
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 12/20/21 09:14
Cleanup Method: EPA 3620B
Cleanup Date: 12/22/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1585419-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/24/21 10:09
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 12/22/21 02:24
Cleanup Method: EPA 3620B
Cleanup Date: 12/24/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02-04 Batch: WG1586380-1						
Delta-BHC	ND		ug/kg	1.59	0.312	A
Lindane	ND		ug/kg	0.664	0.297	A
Alpha-BHC	ND		ug/kg	0.664	0.188	A
Beta-BHC	ND		ug/kg	1.59	0.604	A
Heptachlor	ND		ug/kg	0.797	0.357	A
Aldrin	ND		ug/kg	1.59	0.561	A
Heptachlor epoxide	ND		ug/kg	2.99	0.896	A
Endrin	ND		ug/kg	0.664	0.272	A
Endrin aldehyde	ND		ug/kg	1.99	0.697	A
Endrin ketone	ND		ug/kg	1.59	0.410	A
Dieldrin	ND		ug/kg	0.996	0.498	A
4,4'-DDE	ND		ug/kg	1.59	0.368	A
4,4'-DDD	ND		ug/kg	1.59	0.568	A
4,4'-DDT	ND		ug/kg	2.99	1.28	A
Endosulfan I	ND		ug/kg	1.59	0.376	A
Endosulfan II	ND		ug/kg	1.59	0.532	A
Endosulfan sulfate	ND		ug/kg	0.664	0.316	A
Methoxychlor	ND		ug/kg	2.99	0.930	A
Toxaphene	ND		ug/kg	29.9	8.37	A
cis-Chlordane	ND		ug/kg	1.99	0.555	A
trans-Chlordane	ND		ug/kg	1.99	0.526	A
Chlordane	ND		ug/kg	13.3	5.28	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/24/21 10:09
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 12/22/21 02:24
Cleanup Method: EPA 3620B
Cleanup Date: 12/24/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02-04 Batch: WG1586380-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	82		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168372
Report Date: 12/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Pesticides by EPA 1311 - Westborough Lab Associated sample(s): 05-06 Batch: WG1584314-2 WG1584314-3									
Lindane	95		103		30-150	8		20	A
Heptachlor	101		108		30-150	7		20	A
Heptachlor epoxide	102		108		30-150	6		20	A
Endrin	102		109		30-150	7		20	A
Methoxychlor	111		117		30-150	5		20	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		95		30-150	A
Decachlorobiphenyl	97		98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		89		30-150	B
Decachlorobiphenyl	84		84		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168372
Report Date: 12/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 03 Batch: WG1584444-2 WG1584444-3									
2,4-D	90		85		30-150	6		30	A
2,4,5-T	82		77		30-150	6		30	A
2,4,5-TP (Silvex)	84		78		30-150	7		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	84		82		30-150	A
DCAA	91		85		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168372

Report Date: 12/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Herbicides by EPA 1311 - Westborough Lab Associated sample(s): 05-06 Batch: WG1584871-2 WG1584871-3									
2,4-D	98		118		30-150	19		25	A
2,4,5-TP (Silvex)	52		70		30-150	**30**	Q	25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	95		140		30-150	A
DCAA	64		67		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168372

Report Date: 12/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1585419-2 WG1585419-3									
Delta-BHC	59		54		30-150	9		30	A
Lindane	88		80		30-150	10		30	A
Alpha-BHC	80		75		30-150	6		30	A
Beta-BHC	96		76		30-150	23		30	A
Heptachlor	90		88		30-150	2		30	A
Aldrin	92		88		30-150	4		30	A
Heptachlor epoxide	60		55		30-150	9		30	A
Endrin	85		83		30-150	2		30	A
Endrin aldehyde	60		58		30-150	3		30	A
Endrin ketone	75		74		30-150	1		30	A
Dieldrin	89		88		30-150	1		30	A
4,4'-DDE	81		79		30-150	3		30	A
4,4'-DDD	94		92		30-150	2		30	A
4,4'-DDT	86		85		30-150	1		30	A
Endosulfan I	77		75		30-150	3		30	A
Endosulfan II	84		82		30-150	2		30	A
Endosulfan sulfate	72		72		30-150	0		30	A
Methoxychlor	87		85		30-150	2		30	A
cis-Chlordane	67		66		30-150	2		30	A
trans-Chlordane	94		91		30-150	3		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168372

Report Date: 12/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1585419-2 WG1585419-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		67		30-150	A
Decachlorobiphenyl	61		64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		64		30-150	B
Decachlorobiphenyl	74		67		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168372

Report Date: 12/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02-04 Batch: WG1586380-2 WG1586380-3									
Delta-BHC	58		52		30-150	11		30	A
Lindane	82		76		30-150	8		30	A
Alpha-BHC	82		76		30-150	8		30	A
Beta-BHC	92		85		30-150	8		30	A
Heptachlor	87		80		30-150	8		30	A
Aldrin	93		84		30-150	10		30	A
Heptachlor epoxide	78		70		30-150	11		30	A
Endrin	103		91		30-150	12		30	A
Endrin aldehyde	68		63		30-150	8		30	A
Endrin ketone	103		92		30-150	11		30	A
Dieldrin	90		80		30-150	12		30	A
4,4'-DDE	86		76		30-150	12		30	A
4,4'-DDD	98		86		30-150	13		30	A
4,4'-DDT	98		86		30-150	13		30	A
Endosulfan I	80		71		30-150	12		30	A
Endosulfan II	87		78		30-150	11		30	A
Endosulfan sulfate	76		68		30-150	11		30	A
Methoxychlor	128		112		30-150	13		30	A
cis-Chlordane	88		79		30-150	11		30	A
trans-Chlordane	110		98		30-150	12		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168372

Report Date: 12/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02-04 Batch: WG1586380-2 WG1586380-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		79		30-150	A
Decachlorobiphenyl	99		88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		65		30-150	B
Decachlorobiphenyl	100		89		30-150	B

METALS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-01
Client ID: SB-16 1.5-4.5
Sample Location: MANHATTAN, NY
Date Collected: 12/13/21 09:00
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1570		mg/kg	8.04	2.17	2	12/24/21 07:45	12/28/21 12:41	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.02	0.305	2	12/24/21 07:45	12/28/21 12:41	EPA 3050B	1,6010D	EW
Arsenic, Total	1.69		mg/kg	0.804	0.167	2	12/24/21 07:45	12/28/21 12:41	EPA 3050B	1,6010D	EW
Barium, Total	12.2		mg/kg	0.804	0.140	2	12/24/21 07:45	12/28/21 12:41	EPA 3050B	1,6010D	EW
Beryllium, Total	0.072	J	mg/kg	0.402	0.027	2	12/24/21 07:45	12/28/21 12:41	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.804	0.079	2	12/24/21 07:45	12/28/21 12:41	EPA 3050B	1,6010D	EW
Calcium, Total	3230		mg/kg	8.04	2.81	2	12/24/21 07:45	12/28/21 12:41	EPA 3050B	1,6010D	EW
Chromium, Total	7.34		mg/kg	0.804	0.077	2	12/24/21 07:45	12/28/21 12:41	EPA 3050B	1,6010D	EW
Cobalt, Total	2.14		mg/kg	1.61	0.133	2	12/24/21 07:45	12/28/21 12:41	EPA 3050B	1,6010D	EW
Copper, Total	4.88		mg/kg	0.804	0.207	2	12/24/21 07:45	12/28/21 12:41	EPA 3050B	1,6010D	EW
Iron, Total	3790		mg/kg	4.02	0.726	2	12/24/21 07:45	12/28/21 12:41	EPA 3050B	1,6010D	EW
Lead, Total	11.4		mg/kg	4.02	0.215	2	12/24/21 07:45	12/28/21 12:41	EPA 3050B	1,6010D	EW
Magnesium, Total	1300		mg/kg	8.04	1.24	2	12/24/21 07:45	12/28/21 12:41	EPA 3050B	1,6010D	EW
Manganese, Total	72.5		mg/kg	0.804	0.128	2	12/24/21 07:45	12/28/21 12:41	EPA 3050B	1,6010D	EW
Mercury, Total	0.075		mg/kg	0.066	0.043	1	12/24/21 09:40	12/27/21 17:02	EPA 7471B	1,7471B	NB
Nickel, Total	6.25		mg/kg	2.01	0.194	2	12/24/21 07:45	12/28/21 12:41	EPA 3050B	1,6010D	EW
Potassium, Total	443		mg/kg	201	11.6	2	12/24/21 07:45	12/28/21 12:41	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.61	0.207	2	12/24/21 07:45	12/28/21 12:41	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.804	0.227	2	12/24/21 07:45	12/28/21 12:41	EPA 3050B	1,6010D	EW
Sodium, Total	49.0	J	mg/kg	161	2.53	2	12/24/21 07:45	12/28/21 12:41	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.61	0.253	2	12/24/21 07:45	12/28/21 12:41	EPA 3050B	1,6010D	EW
Vanadium, Total	5.09		mg/kg	0.804	0.163	2	12/24/21 07:45	12/28/21 12:41	EPA 3050B	1,6010D	EW
Zinc, Total	17.8		mg/kg	4.02	0.235	2	12/24/21 07:45	12/28/21 12:41	EPA 3050B	1,6010D	EW

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-02
Client ID: SB-16 6.5-8.5
Sample Location: MANHATTAN, NY
Date Collected: 12/13/21 09:30
Date Received: 12/13/21
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	6290		mg/kg	8.44	2.28	2	12/24/21 07:45	12/28/21 12:45	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.22	0.321	2	12/24/21 07:45	12/28/21 12:45	EPA 3050B	1,6010D	EW
Arsenic, Total	1.16		mg/kg	0.844	0.176	2	12/24/21 07:45	12/28/21 12:45	EPA 3050B	1,6010D	EW
Barium, Total	62.8		mg/kg	0.844	0.147	2	12/24/21 07:45	12/28/21 12:45	EPA 3050B	1,6010D	EW
Beryllium, Total	0.169	J	mg/kg	0.422	0.028	2	12/24/21 07:45	12/28/21 12:45	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.844	0.083	2	12/24/21 07:45	12/28/21 12:45	EPA 3050B	1,6010D	EW
Calcium, Total	4680		mg/kg	8.44	2.96	2	12/24/21 07:45	12/28/21 12:45	EPA 3050B	1,6010D	EW
Chromium, Total	17.2		mg/kg	0.844	0.081	2	12/24/21 07:45	12/28/21 12:45	EPA 3050B	1,6010D	EW
Cobalt, Total	7.89		mg/kg	1.69	0.140	2	12/24/21 07:45	12/28/21 12:45	EPA 3050B	1,6010D	EW
Copper, Total	22.7		mg/kg	0.844	0.218	2	12/24/21 07:45	12/28/21 12:45	EPA 3050B	1,6010D	EW
Iron, Total	12200		mg/kg	4.22	0.762	2	12/24/21 07:45	12/28/21 12:45	EPA 3050B	1,6010D	EW
Lead, Total	13.5		mg/kg	4.22	0.226	2	12/24/21 07:45	12/28/21 12:45	EPA 3050B	1,6010D	EW
Magnesium, Total	4360		mg/kg	8.44	1.30	2	12/24/21 07:45	12/28/21 12:45	EPA 3050B	1,6010D	EW
Manganese, Total	144		mg/kg	0.844	0.134	2	12/24/21 07:45	12/28/21 12:45	EPA 3050B	1,6010D	EW
Mercury, Total	0.053	J	mg/kg	0.069	0.045	1	12/24/21 09:40	12/27/21 17:05	EPA 7471B	1,7471B	NB
Nickel, Total	13.3		mg/kg	2.11	0.204	2	12/24/21 07:45	12/28/21 12:45	EPA 3050B	1,6010D	EW
Potassium, Total	3320		mg/kg	211	12.2	2	12/24/21 07:45	12/28/21 12:45	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.69	0.218	2	12/24/21 07:45	12/28/21 12:45	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.844	0.239	2	12/24/21 07:45	12/28/21 12:45	EPA 3050B	1,6010D	EW
Sodium, Total	152	J	mg/kg	169	2.66	2	12/24/21 07:45	12/28/21 12:45	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.69	0.266	2	12/24/21 07:45	12/28/21 12:45	EPA 3050B	1,6010D	EW
Vanadium, Total	17.3		mg/kg	0.844	0.171	2	12/24/21 07:45	12/28/21 12:45	EPA 3050B	1,6010D	EW
Zinc, Total	39.8		mg/kg	4.22	0.247	2	12/24/21 07:45	12/28/21 12:45	EPA 3050B	1,6010D	EW

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-03
Client ID: SB-15 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/13/21 10:30
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 94%

Total Metals - Mansfield Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Aluminum, Total	979		mg/kg	8.39	2.27	2	12/24/21 07:45	12/28/21 12:49	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.20	0.319	2	12/24/21 07:45	12/28/21 12:49	EPA 3050B	1,6010D	EW
Arsenic, Total	0.839		mg/kg	0.839	0.175	2	12/24/21 07:45	12/28/21 12:49	EPA 3050B	1,6010D	EW
Barium, Total	6.13		mg/kg	0.839	0.146	2	12/24/21 07:45	12/28/21 12:49	EPA 3050B	1,6010D	EW
Beryllium, Total	0.042	J	mg/kg	0.420	0.028	2	12/24/21 07:45	12/28/21 12:49	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.839	0.082	2	12/24/21 07:45	12/28/21 12:49	EPA 3050B	1,6010D	EW
Calcium, Total	382		mg/kg	8.39	2.94	2	12/24/21 07:45	12/28/21 12:49	EPA 3050B	1,6010D	EW
Chromium, Total	2.50		mg/kg	0.839	0.081	2	12/24/21 07:45	12/28/21 12:49	EPA 3050B	1,6010D	EW
Cobalt, Total	0.907	J	mg/kg	1.68	0.139	2	12/24/21 07:45	12/28/21 12:49	EPA 3050B	1,6010D	EW
Copper, Total	2.59		mg/kg	0.839	0.216	2	12/24/21 07:45	12/28/21 12:49	EPA 3050B	1,6010D	EW
Iron, Total	1920		mg/kg	4.20	0.758	2	12/24/21 07:45	12/28/21 12:49	EPA 3050B	1,6010D	EW
Lead, Total	4.60		mg/kg	4.20	0.225	2	12/24/21 07:45	12/28/21 12:49	EPA 3050B	1,6010D	EW
Magnesium, Total	354		mg/kg	8.39	1.29	2	12/24/21 07:45	12/28/21 12:49	EPA 3050B	1,6010D	EW
Manganese, Total	39.6		mg/kg	0.839	0.133	2	12/24/21 07:45	12/28/21 12:49	EPA 3050B	1,6010D	EW
Mercury, Total	ND		mg/kg	0.068	0.044	1	12/24/21 09:40	12/27/21 17:08	EPA 7471B	1,7471B	NB
Nickel, Total	1.66	J	mg/kg	2.10	0.203	2	12/24/21 07:45	12/28/21 12:49	EPA 3050B	1,6010D	EW
Potassium, Total	177	J	mg/kg	210	12.1	2	12/24/21 07:45	12/28/21 12:49	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.68	0.216	2	12/24/21 07:45	12/28/21 12:49	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.839	0.238	2	12/24/21 07:45	12/28/21 12:49	EPA 3050B	1,6010D	EW
Sodium, Total	11.8	J	mg/kg	168	2.64	2	12/24/21 07:45	12/28/21 12:49	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.68	0.264	2	12/24/21 07:45	12/28/21 12:49	EPA 3050B	1,6010D	EW
Vanadium, Total	3.20		mg/kg	0.839	0.170	2	12/24/21 07:45	12/28/21 12:49	EPA 3050B	1,6010D	EW
Zinc, Total	9.56		mg/kg	4.20	0.246	2	12/24/21 07:45	12/28/21 12:49	EPA 3050B	1,6010D	EW

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-04
Client ID: SB-12 1-3
Sample Location: MANHATTAN, NY
Date Collected: 12/13/21 11:30
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 96%

Total Metals - Mansfield Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Aluminum, Total	1730		mg/kg	8.05	2.17	2	12/24/21 07:45	12/28/21 12:54	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.03	0.306	2	12/24/21 07:45	12/28/21 12:54	EPA 3050B	1,6010D	EW
Arsenic, Total	1.82		mg/kg	0.805	0.168	2	12/24/21 07:45	12/28/21 12:54	EPA 3050B	1,6010D	EW
Barium, Total	11.1		mg/kg	0.805	0.140	2	12/24/21 07:45	12/28/21 12:54	EPA 3050B	1,6010D	EW
Beryllium, Total	0.081	J	mg/kg	0.403	0.027	2	12/24/21 07:45	12/28/21 12:54	EPA 3050B	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.805	0.079	2	12/24/21 07:45	12/28/21 12:54	EPA 3050B	1,6010D	EW
Calcium, Total	2070		mg/kg	8.05	2.82	2	12/24/21 07:45	12/28/21 12:54	EPA 3050B	1,6010D	EW
Chromium, Total	5.75		mg/kg	0.805	0.077	2	12/24/21 07:45	12/28/21 12:54	EPA 3050B	1,6010D	EW
Cobalt, Total	1.99		mg/kg	1.61	0.134	2	12/24/21 07:45	12/28/21 12:54	EPA 3050B	1,6010D	EW
Copper, Total	6.29		mg/kg	0.805	0.208	2	12/24/21 07:45	12/28/21 12:54	EPA 3050B	1,6010D	EW
Iron, Total	3850		mg/kg	4.03	0.727	2	12/24/21 07:45	12/28/21 12:54	EPA 3050B	1,6010D	EW
Lead, Total	12.8		mg/kg	4.03	0.216	2	12/24/21 07:45	12/28/21 12:54	EPA 3050B	1,6010D	EW
Magnesium, Total	1140		mg/kg	8.05	1.24	2	12/24/21 07:45	12/28/21 12:54	EPA 3050B	1,6010D	EW
Manganese, Total	68.8		mg/kg	0.805	0.128	2	12/24/21 07:45	12/28/21 12:54	EPA 3050B	1,6010D	EW
Mercury, Total	0.136		mg/kg	0.066	0.043	1	12/24/21 09:40	12/27/21 17:18	EPA 7471B	1,7471B	NB
Nickel, Total	5.07		mg/kg	2.01	0.195	2	12/24/21 07:45	12/28/21 12:54	EPA 3050B	1,6010D	EW
Potassium, Total	324		mg/kg	201	11.6	2	12/24/21 07:45	12/28/21 12:54	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.61	0.208	2	12/24/21 07:45	12/28/21 12:54	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.805	0.228	2	12/24/21 07:45	12/28/21 12:54	EPA 3050B	1,6010D	EW
Sodium, Total	133	J	mg/kg	161	2.54	2	12/24/21 07:45	12/28/21 12:54	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.61	0.254	2	12/24/21 07:45	12/28/21 12:54	EPA 3050B	1,6010D	EW
Vanadium, Total	4.90		mg/kg	0.805	0.164	2	12/24/21 07:45	12/28/21 12:54	EPA 3050B	1,6010D	EW
Zinc, Total	21.8		mg/kg	4.03	0.236	2	12/24/21 07:45	12/28/21 12:54	EPA 3050B	1,6010D	EW

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-05
Client ID: COMP #7 (16,11)
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil

Date Collected: 12/13/21 10:00
Date Received: 12/13/21
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 12/15/21 05:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	12/22/21 12:41	12/27/21 14:50	EPA 3015	1,6010D	EW
Barium, TCLP	0.083	J	mg/l	0.500	0.021	1	12/22/21 12:41	12/27/21 14:50	EPA 3015	1,6010D	EW
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	12/22/21 12:41	12/27/21 14:50	EPA 3015	1,6010D	EW
Chromium, TCLP	ND		mg/l	0.200	0.021	1	12/22/21 12:41	12/27/21 14:50	EPA 3015	1,6010D	EW
Lead, TCLP	ND		mg/l	0.500	0.027	1	12/22/21 12:41	12/27/21 14:50	EPA 3015	1,6010D	EW
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	12/22/21 12:43	12/22/21 16:37	EPA 7470A	1,7470A	AC
Selenium, TCLP	ND		mg/l	0.500	0.035	1	12/22/21 12:41	12/27/21 14:50	EPA 3015	1,6010D	EW
Silver, TCLP	ND		mg/l	0.100	0.028	1	12/22/21 12:41	12/27/21 14:50	EPA 3015	1,6010D	EW

Project Name: BATTERY PARK
Lab Number: L2168372
Project Number: 20-1152
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-06
Client ID: COMP #8 (15,12)
Sample Location: MANHATTAN, NY
Date Collected: 12/13/21 11:45
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
TCLP/SPLP Ext. Date: 12/15/21 05:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	0.019	J	mg/l	1.00	0.019	1	12/22/21 12:41	12/27/21 14:55	EPA 3015	1,6010D	EW
Barium, TCLP	0.093	J	mg/l	0.500	0.021	1	12/22/21 12:41	12/27/21 14:55	EPA 3015	1,6010D	EW
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	12/22/21 12:41	12/27/21 14:55	EPA 3015	1,6010D	EW
Chromium, TCLP	ND		mg/l	0.200	0.021	1	12/22/21 12:41	12/27/21 14:55	EPA 3015	1,6010D	EW
Lead, TCLP	ND		mg/l	0.500	0.027	1	12/22/21 12:41	12/27/21 14:55	EPA 3015	1,6010D	EW
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	12/22/21 12:43	12/22/21 16:41	EPA 7470A	1,7470A	AC
Selenium, TCLP	ND		mg/l	0.500	0.035	1	12/22/21 12:41	12/27/21 14:55	EPA 3015	1,6010D	EW
Silver, TCLP	ND		mg/l	0.100	0.028	1	12/22/21 12:41	12/27/21 14:55	EPA 3015	1,6010D	EW

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 05-06 Batch: WG1585881-1										
Arsenic, TCLP	0.023	J	mg/l	1.00	0.019	1	12/22/21 12:41	12/27/21 13:52	1,6010D	EW
Barium, TCLP	ND		mg/l	0.500	0.021	1	12/22/21 12:41	12/27/21 13:52	1,6010D	EW
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	12/22/21 12:41	12/27/21 13:52	1,6010D	EW
Chromium, TCLP	ND		mg/l	0.200	0.021	1	12/22/21 12:41	12/27/21 13:52	1,6010D	EW
Lead, TCLP	ND		mg/l	0.500	0.027	1	12/22/21 12:41	12/27/21 13:52	1,6010D	EW
Selenium, TCLP	ND		mg/l	0.500	0.035	1	12/22/21 12:41	12/27/21 13:52	1,6010D	EW
Silver, TCLP	ND		mg/l	0.100	0.028	1	12/22/21 12:41	12/27/21 13:52	1,6010D	EW

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 12/14/21 22:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 05-06 Batch: WG1585882-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	12/22/21 12:43	12/22/21 16:14	1,7470A	AC

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 12/14/21 22:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1586670-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	12/24/21 07:45	12/28/21 11:17	1,6010D	EW
Antimony, Total	ND		mg/kg	2.00	0.152	1	12/24/21 07:45	12/28/21 11:17	1,6010D	EW
Arsenic, Total	ND		mg/kg	0.400	0.083	1	12/24/21 07:45	12/28/21 11:17	1,6010D	EW
Barium, Total	ND		mg/kg	0.400	0.070	1	12/24/21 07:45	12/28/21 11:17	1,6010D	EW
Beryllium, Total	ND		mg/kg	0.200	0.013	1	12/24/21 07:45	12/28/21 11:17	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.400	0.039	1	12/24/21 07:45	12/28/21 11:17	1,6010D	EW
Calcium, Total	ND		mg/kg	4.00	1.40	1	12/24/21 07:45	12/28/21 11:17	1,6010D	EW
Chromium, Total	ND		mg/kg	0.400	0.038	1	12/24/21 07:45	12/28/21 11:17	1,6010D	EW
Cobalt, Total	ND		mg/kg	0.800	0.066	1	12/24/21 07:45	12/28/21 11:17	1,6010D	EW

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Method Blank Analysis
Batch Quality Control

Copper, Total	ND		mg/kg	0.400	0.103	1	12/24/21 07:45	12/28/21 11:17	1,6010D	EW
Iron, Total	1.78	J	mg/kg	2.00	0.361	1	12/24/21 07:45	12/28/21 11:17	1,6010D	EW
Lead, Total	ND		mg/kg	2.00	0.107	1	12/24/21 07:45	12/28/21 11:17	1,6010D	EW
Magnesium, Total	ND		mg/kg	4.00	0.616	1	12/24/21 07:45	12/28/21 11:17	1,6010D	EW
Manganese, Total	0.064	J	mg/kg	0.400	0.064	1	12/24/21 07:45	12/28/21 11:17	1,6010D	EW
Nickel, Total	ND		mg/kg	1.00	0.097	1	12/24/21 07:45	12/28/21 11:17	1,6010D	EW
Potassium, Total	ND		mg/kg	100	5.76	1	12/24/21 07:45	12/28/21 11:17	1,6010D	EW
Selenium, Total	ND		mg/kg	0.800	0.103	1	12/24/21 07:45	12/28/21 11:17	1,6010D	EW
Silver, Total	ND		mg/kg	0.400	0.113	1	12/24/21 07:45	12/28/21 11:17	1,6010D	EW
Sodium, Total	ND		mg/kg	80.0	1.26	1	12/24/21 07:45	12/28/21 11:17	1,6010D	EW
Thallium, Total	ND		mg/kg	0.800	0.126	1	12/24/21 07:45	12/28/21 11:17	1,6010D	EW
Vanadium, Total	ND		mg/kg	0.400	0.081	1	12/24/21 07:45	12/28/21 11:17	1,6010D	EW
Zinc, Total	ND		mg/kg	2.00	0.117	1	12/24/21 07:45	12/28/21 11:17	1,6010D	EW

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): 01-04 Batch: WG1586671-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	12/24/21 09:40	12/27/21 16:15	1,7471B	NB

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168372

Report Date: 12/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05-06 Batch: WG1585881-2								
Arsenic, TCLP	114		-		75-125	-		20
Barium, TCLP	101		-		75-125	-		20
Cadmium, TCLP	103		-		75-125	-		20
Chromium, TCLP	99		-		75-125	-		20
Lead, TCLP	100		-		75-125	-		20
Selenium, TCLP	108		-		75-125	-		20
Silver, TCLP	102		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05-06 Batch: WG1585882-2								
Mercury, TCLP	101		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168372

Report Date: 12/29/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1586670-2 SRM Lot Number: D113-540					
Aluminum, Total	73	-	51-149	-	
Antimony, Total	132	-	20-250	-	
Arsenic, Total	93	-	70-130	-	
Barium, Total	87	-	75-125	-	
Beryllium, Total	89	-	75-125	-	
Cadmium, Total	86	-	75-125	-	
Calcium, Total	85	-	73-128	-	
Chromium, Total	90	-	70-130	-	
Cobalt, Total	95	-	75-125	-	
Copper, Total	90	-	75-125	-	
Iron, Total	90	-	36-164	-	
Lead, Total	89	-	72-128	-	
Magnesium, Total	83	-	63-138	-	
Manganese, Total	90	-	77-123	-	
Nickel, Total	89	-	70-130	-	
Potassium, Total	80	-	59-141	-	
Selenium, Total	92	-	66-134	-	
Silver, Total	89	-	70-131	-	
Sodium, Total	87	-	35-164	-	
Thallium, Total	89	-	70-130	-	
Vanadium, Total	85	-	74-126	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168372

Report Date: 12/29/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1586670-2 SRM Lot Number: D113-540					
Zinc, Total	90	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1586671-2 SRM Lot Number: D113-540					
Mercury, Total	89	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168372
Report Date: 12/29/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1585881-3 QC Sample: L2168114-01 Client ID: MS Sample												
Arsenic, TCLP	0.052J	1.2	1.41	118		-	-		75-125	-		20
Barium, TCLP	0.228J	20	20.7	104		-	-		75-125	-		20
Cadmium, TCLP	ND	0.53	0.551	104		-	-		75-125	-		20
Chromium, TCLP	ND	2	2.00	100		-	-		75-125	-		20
Lead, TCLP	ND	5.3	5.31	100		-	-		75-125	-		20
Selenium, TCLP	ND	1.2	1.27	106		-	-		75-125	-		20
Silver, TCLP	ND	0.5	0.522	104		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1585882-3 QC Sample: L2168114-01 Client ID: MS Sample												
Mercury, TCLP	ND	0.025	0.0238	95		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168372
Report Date: 12/29/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1586670-3 WG1586670-4 QC Sample: L2166418-06 Client ID: MS Sample												
Aluminum, Total	10300	199	9630	**0**	Q	8890	**0**	Q	75-125	8		20
Antimony, Total	ND	49.8	28.6	**57**	Q	26.4	**53**	Q	75-125	8		20
Arsenic, Total	3.40	11.9	12.3	**74**	Q	13.1	80		75-125	6		20
Barium, Total	82.1	199	279	99		223	**70**	Q	75-125	**22**	Q	20
Beryllium, Total	0.450J	4.98	3.82	77		3.94	78		75-125	3		20
Cadmium, Total	ND	5.27	2.71	**51**	Q	2.87	**54**	Q	75-125	6		20
Calcium, Total	46200	995	76200	**3010**	Q	93800	**4740**	Q	75-125	**21**	Q	20
Chromium, Total	15.6	19.9	27.7	**61**	Q	28.9	**66**	Q	75-125	4		20
Cobalt, Total	9.04	49.8	39.6	**61**	Q	39.7	**61**	Q	75-125	0		20
Copper, Total	16.9	24.9	33.4	**66**	Q	37.2	81		75-125	11		20
Iron, Total	19700	99.5	18100	**0**	Q	17800	**0**	Q	75-125	2		20
Lead, Total	10.3	52.7	42.4	**61**	Q	43.4	**62**	Q	75-125	2		20
Magnesium, Total	14600	995	15700	110		27000	**1240**	Q	75-125	**53**	Q	20
Manganese, Total	393	49.8	447	108		430	**74**	Q	75-125	4		20
Nickel, Total	19.0	49.8	47.5	**57**	Q	47.6	**57**	Q	75-125	0		20
Potassium, Total	1430	995	2140	**71**	Q	2250	82		75-125	5		20
Selenium, Total	ND	11.9	7.65	**64**	Q	8.47	**70**	Q	75-125	10		20
Silver, Total	ND	29.8	21.4	**72**	Q	22.8	76		75-125	6		20
Sodium, Total	181J	995	911	92		961	96		75-125	5		20
Thallium, Total	0.599J	11.9	7.46	**62**	Q	7.56	**63**	Q	75-125	1		20
Vanadium, Total	17.4	49.8	49.7	**65**	Q	51.4	**68**	Q	75-125	3		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168372
Report Date: 12/29/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1586670-3 WG1586670-4 QC Sample: L2166418-06 Client ID: MS Sample											
Zinc, Total	51.3	49.8	79.1	**56**	Q	78.3	**54**	Q	75-125	1	20
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1586671-3 WG1586671-4 QC Sample: L2166418-06 Client ID: MS Sample											
Mercury, Total	0.180	0.163	0.188	**5**	Q	ND	**0**	Q	80-120	NC	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168372
Report Date: 12/29/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1585881-4 QC Sample: L2168114-01 Client ID: DUP Sample						
Arsenic, TCLP	0.052J	0.074J	mg/l	NC		20
Barium, TCLP	0.228J	0.232J	mg/l	NC		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	ND	ND	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1585882-4 QC Sample: L2168114-01 Client ID: DUP Sample						
Mercury, TCLP	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-05
Client ID: COMP #7 (16,11)
Sample Location: MANHATTAN, NY
Date Collected: 12/13/21 10:00
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Sand
Particle Size:	Fine
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	12/23/21 12:47	1,1030	IS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-06
Client ID: COMP #8 (15,12)
Sample Location: MANHATTAN, NY
Date Collected: 12/13/21 11:45
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Sand
Particle Size:	Fine
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	12/23/21 12:47	1,1030	IS

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-01
Client ID: SB-16 1.5-4.5
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 09:00
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.0		%	0.100	NA	1	-	12/14/21 03:38	121,2540G	MA
Cyanide, Total	ND		mg/kg	0.96	0.20	1	12/22/21 15:20	12/23/21 10:06	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.842	0.168	1	12/23/21 12:00	12/28/21 07:25	1,7196A	JT

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-02
Client ID: SB-16 6.5-8.5
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 09:30
Date Received: 12/13/21
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	92.8		%	0.100	NA	1	-	12/14/21 03:38	121,2540G	MA
Cyanide, Total	ND		mg/kg	1.0	0.22	1	12/22/21 15:20	12/23/21 10:07	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.862	0.172	1	12/23/21 12:00	12/28/21 07:25	1,7196A	JT

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-03
Client ID: SB-15 1-3
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 10:30
Date Received: 12/13/21
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	93.8		%	0.100	NA	1	-	12/14/21 03:38	121,2540G	MA
Cyanide, Total	ND		mg/kg	1.0	0.22	1	12/23/21 09:55	12/23/21 12:53	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.853	0.170	1	12/23/21 12:00	12/28/21 07:25	1,7196A	JT

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-04
Client ID: SB-12 1-3
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 11:30
Date Received: 12/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.5		%	0.100	NA	1	-	12/14/21 03:38	121,2540G	MA
Cyanide, Total	ND		mg/kg	1.0	0.22	1	12/23/21 09:55	12/23/21 12:55	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.838	0.168	1	12/23/21 12:00	12/28/21 07:25	1,7196A	JT

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-05
Client ID: COMP #7 (16,11)
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 10:00
Date Received: 12/13/21
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										
pH (H)	8.4		SU	-	NA	1	-	12/20/21 20:00	1,9045D	RM
Cyanide, Reactive	ND		mg/kg	10	10.	1	12/27/21 16:50	12/27/21 18:53	125,7.3	MJ
Sulfide, Reactive	ND		mg/kg	10	10.	1	12/27/21 16:50	12/27/21 18:22	125,7.3	MJ

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168372
Report Date: 12/29/21

SAMPLE RESULTS

Lab ID: L2168372-06
Client ID: COMP #8 (15,12)
Sample Location: MANHATTAN, NY

Date Collected: 12/13/21 11:45
Date Received: 12/13/21
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										
pH (H)	7.8		SU	-	NA	1	-	12/20/21 20:00	1,9045D	RM
Cyanide, Reactive	ND		mg/kg	10	10.	1	12/27/21 16:50	12/27/21 18:54	125,7.3	MJ
Sulfide, Reactive	ND		mg/kg	10	10.	1	12/27/21 16:50	12/27/21 18:22	125,7.3	MJ

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2168372
Report Date: 12/29/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1586584-1										
Cyanide, Total	ND		mg/kg	0.93	0.20	1	12/22/21 15:20	12/23/21 09:51	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 03-04 Batch: WG1586817-1										
Cyanide, Total	ND		mg/kg	0.92	0.20	1	12/23/21 09:55	12/23/21 12:49	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 05-06 Batch: WG1586905-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	12/27/21 16:50	12/27/21 18:20	125,7.3	MJ
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1587239-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	12/23/21 12:00	12/28/21 07:25	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 05-06 Batch: WG1587454-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	12/27/21 16:50	12/27/21 18:51	125,7.3	MJ

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2168372

Report Date: 12/29/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 05-06 Batch: WG1585713-1								
pH	101		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1586584-2 WG1586584-3								
Cyanide, Total	92		94		80-120	6		35
General Chemistry - Westborough Lab Associated sample(s): 03-04 Batch: WG1586817-2 WG1586817-3								
Cyanide, Total	91		81		80-120	30		35
General Chemistry - Westborough Lab Associated sample(s): 05-06 Batch: WG1586905-2								
Sulfide, Reactive	100		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1587239-2								
Chromium, Hexavalent	80		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 05-06 Batch: WG1587454-2								
Cyanide, Reactive	89		-		30-125	-		40

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168372
Report Date: 12/29/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1586584-4 WG1586584-5 QC Sample: L2168269-02 Client ID: MS Sample												
Cyanide, Total	ND	11	12	110		12	110		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 03-04 QC Batch ID: WG1586817-4 WG1586817-5 QC Sample: L2168375-01 Client ID: MS Sample												
Cyanide, Total	ND	11	15	**140**	Q	12	110		75-125	22		35
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1587239-4 QC Sample: L2168372-04 Client ID: SB-12 1-3												
Chromium, Hexavalent	ND	1080	1030	96		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168372
Report Date: 12/29/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1582827-1 QC Sample: L2167753-02 Client ID: DUP Sample						
Solids, Total	86.2	86.9	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 05-06 QC Batch ID: WG1585713-2 QC Sample: L2167004-01 Client ID: DUP Sample						
pH	7.7	7.8	SU	1		5
General Chemistry - Westborough Lab Associated sample(s): 05-06 QC Batch ID: WG1586905-3 QC Sample: L2168379-10 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1587239-6 QC Sample: L2168372-04 Client ID: SB-12 1-3						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 05-06 QC Batch ID: WG1587454-3 QC Sample: L2168379-10 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168372
Report Date: 12/29/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2168372-01A	Vial MeOH preserved	A	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2168372-01B	Vial water preserved	A	NA		3.0	Y	Absent	14-DEC-21 02:59	NYTCL-8260HLW(14)
L2168372-01C	Vial water preserved	A	NA		3.0	Y	Absent	14-DEC-21 02:59	NYTCL-8260HLW(14)
L2168372-01D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),SE-TI(180),SB-TI(180),CU-TI(180),ZN-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),HG-T(28),FE-TI(180),MN-TI(180),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180)
L2168372-01E	Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2168372-01F	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2168372-01G	Plastic 120ml unpreserved	A	NA		3.0	Y	Absent		TS(7)
L2168372-01H	Glass 250ml/8oz unpreserved	A	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2168372-02A	Vial MeOH preserved	A	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2168372-02B	Vial water preserved	A	NA		3.0	Y	Absent	14-DEC-21 02:59	NYTCL-8260HLW(14)
L2168372-02C	Vial water preserved	A	NA		3.0	Y	Absent	14-DEC-21 02:59	NYTCL-8260HLW(14)
L2168372-02D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2168372-02E	Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2168372-02F	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2168372-02G	Plastic 120ml unpreserved	A	NA		3.0	Y	Absent		TS(7)
L2168372-02H	Glass 250ml/8oz unpreserved	A	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*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(*)
L2168372-03A	Vial MeOH preserved	A	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2168372-03B	Vial water preserved	A	NA		3.0	Y	Absent	14-DEC-21 02:59	NYTCL-8260HLW(14)
L2168372-03C	Vial water preserved	A	NA		3.0	Y	Absent	14-DEC-21 02:59	NYTCL-8260HLW(14)
L2168372-03D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),NA-TI(180),CA-TI(180),K-TI(180),CD-TI(180)
L2168372-03E	Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2168372-03F	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2168372-03G	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2168372-03H	Plastic 120ml unpreserved	A	NA		3.0	Y	Absent		TS(7)
L2168372-03J	Glass 250ml/8oz unpreserved	A	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2168372-04A	Vial MeOH preserved	A	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2168372-04B	Vial water preserved	A	NA		3.0	Y	Absent	14-DEC-21 02:59	NYTCL-8260HLW(14)
L2168372-04C	Vial water preserved	A	NA		3.0	Y	Absent	14-DEC-21 02:59	NYTCL-8260HLW(14)
L2168372-04D	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		TCN-9010(14),NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2168372-04E	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		TCN-9010(14),NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2168372-04F	Plastic 120ml unpreserved	A	NA		3.0	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),CU-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MN-TI(180),MG-TI(180),HG-T(28),FE-TI(180),NA-TI(180),CD-TI(180),CA-TI(180),K-TI(180)
L2168372-04G	Glass 250ml/8oz unpreserved	A	NA		3.0	Y	Absent		TCN-9010(14),NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2168372-05A	Vial Large Septa unpreserved (4oz)	A	NA		3.0	Y	Absent		TCLP-EXT-ZHE(14)
L2168372-05B	Glass 500ml/16oz unpreserved	A	NA		3.0	Y	Absent		REACTS(14),IGNIT-1030(14),PH-9045(1),REACTCN(14)

*Values in parentheses indicate holding time in days

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2168372
Report Date: 12/29/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2168372-05T	Amber 1000ml unpreserved Extracts	A	NA		3.0	Y	Absent		TCLP-8270(14),HERB-TCLP*(14),PEST-TCLP*(14)
L2168372-05W	Plastic 120ml HNO3 preserved Extracts	A	NA		3.0	Y	Absent		CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2168372-05X9	Tumble Vessel	A	NA		3.0	Y	Absent		-
L2168372-05Y	Vial unpreserved Extracts	A	NA		3.0	Y	Absent		TCLP-VOA(14)
L2168372-05Z	Vial unpreserved Extracts	A	NA		3.0	Y	Absent		TCLP-VOA(14)
L2168372-06A	Vial Large Septa unpreserved (4oz)	A	NA		3.0	Y	Absent		TCLP-EXT-ZHE(14)
L2168372-06B	Glass 500ml/16oz unpreserved	A	NA		3.0	Y	Absent		REACTS(14),IGNIT-1030(14),PH-9045(1),REACTCN(14)
L2168372-06T	Amber 1000ml unpreserved Extracts	A	NA		3.0	Y	Absent		TCLP-8270(14),HERB-TCLP*(14),PEST-TCLP*(14)
L2168372-06W	Plastic 120ml HNO3 preserved Extracts	A	NA		3.0	Y	Absent		CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2168372-06X9	Tumble Vessel	A	NA		3.0	Y	Absent		-
L2168372-06Y	Vial unpreserved Extracts	A	NA		3.0	Y	Absent		TCLP-VOA(14)
L2168372-06Z	Vial unpreserved Extracts	A	NA		3.0	Y	Absent		TCLP-VOA(14)

*Values in parentheses indicate holding time in days

Project Name:	BATTERY PARK	**Lab Number:**	L2168372
Project Number:	20-1152	**Report Date:**	12/29/21

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:	BATTERY PARK	**Lab Number:**	L2168372
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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. 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.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	BATTERY PARK	**Lab Number:**	L2168372
Project Number:	20-1152	**Report Date:**	12/29/21

Data Qualifiers

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:	BATTERY PARK	**Lab Number:**	L2168372
Project Number:	20-1152	**Report Date:**	12/29/21

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.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

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

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Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

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Date Rec'd in Lab: 12/13/21

ALPHA Job #: L2168372

Client Information
Client: MATRIX
Address: 333 W 39th St NEW YORK, NY
Phone:
Fax:
Email: BCrespi@mnwe.com

Project Information
Project Name: BATTERY PARK
Project Location: MANHATTAN, NY
Project #: 20-1152
(Use Project name as Project #) ☐
Project Manager: BRIAN CRESPI
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

Billing Information
☐ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

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:
SB12 1-3 please take TCN & Total metals from a sing 4oz, we ran out of 2oz

Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOC	TCL SVOC	TCL PCB	TCL METALS	Cyanide/Hexachromium	HERBICIDES	FULL TCLP	RCRA CHARACTERISTICS	Total Bottle
68372 -01	SB-16 1.5-4.5	12/13/21	9:00	S	PY	X	X	X	X	X				
-02	SB-16 6.5-8.5	12/13/21	9:30	S	PY	X	X	X	X	X				
-03	SB-15 1-3	12/13/21	10:30	S	PY	X	X	X	X	X	X			
-04	SB-12 1-3	12/13/21	11:30	S	PY	X	X	X	X	X				
-05	COMP #7 (16,11)	12/13/21	16:00	S	PY							X	X	
-06	COMP #8 (15,12)	12/13/21	11:45	S	PY							X	X	

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

Container Type									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
	12-13-21		12/13
	12/13		12/13/21 1836
DL Schroeder AHL	12/13/21		12/13/21 2130
	12/13/21 23:45		12/13/21 23:45

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)

ANALYTICAL REPORT

Lab Number:	L2169537
Client:	Matrix New World Engineering, Inc. 333 West 39th Street, Second Floor New York City, NY 10018
ATTN:	Brian Crespi
Phone:	(212) 324-4251
Project Name:	BATTERY PARK
Project Number:	20-1152
Report Date:	01/04/22

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

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

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2169537-01	SB26	WATER	MANHATTAN, NY	12/16/21 10:30	12/16/21
L2169537-02	SB26 DUP	WATER	MANHATTAN, NY	12/16/21 11:00	12/16/21
L2169537-03	SB29	WATER	MANHATTAN, NY	12/16/21 13:00	12/16/21
L2169537-04	SB17	WATER	MANHATTAN, NY	12/16/21 14:30	12/16/21
L2169537-05	GW FIELD BLANK	WATER	MANHATTAN, NY	12/16/21 11:45	12/16/21

Project Name:	BATTERY PARK	**Lab Number:**	L2169537
Project Number:	20-1152	**Report Date:**	01/04/22

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: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

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.

PCBs

L2169537-01 and WG1586143-1: The surrogate recoveries are reported from a diluted analysis to obtain results within the calibration.

WG1586143: Due to a laboratory oversight the entire batch was spiked with IS twice; therefore, the processing method was adjusted to reflect this change.

Total Metals

L2169537-01, -02, -03, and -04: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

Dissolved Metals

L2169537-01, -02, and -04: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

The WG1588469-3 MS recoveries for calcium (0%), magnesium (0%), potassium (0%), and sodium (0%), performed on L2169537-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

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

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 01/04/22

ORGANICS

VOLATILES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-01
Client ID: SB26
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 10:30
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/28/21 12:52
Analyst: LAC

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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	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

Project Name: BATTERY PARK **Lab Number:** L2169537

Project Number: 20-1152 **Report Date:** 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-01 Date Collected: 12/16/21 10:30

Client ID: SB26 Date Received: 12/16/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
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
Vinyl acetate	ND		ug/l	5.0	1.0	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
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-01
Client ID: SB26
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 10:30
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	108		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-02
Client ID: SB26 DUP
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 11:00
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/28/21 13:17
Analyst: LAC

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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	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

Project Name: BATTERY PARK **Lab Number:** L2169537

Project Number: 20-1152 **Report Date:** 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-02 Date Collected: 12/16/21 11:00

Client ID: SB26 DUP Date Received: 12/16/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
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
Vinyl acetate	ND		ug/l	5.0	1.0	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
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-02
Client ID: SB26 DUP
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 11:00
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	107		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-03
Client ID: SB29
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 13:00
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/28/21 13:41
Analyst: LAC

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	0.70	J	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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	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

Project Name: BATTERY PARK **Lab Number:** L2169537

Project Number: 20-1152 **Report Date:** 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-03 Date Collected: 12/16/21 13:00

Client ID: SB29 Date Received: 12/16/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
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
Vinyl acetate	ND		ug/l	5.0	1.0	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
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-03
Client ID: SB29
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 13:00
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	108		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-04
Client ID: SB17
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 14:30
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/28/21 14:06
Analyst: LAC

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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	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

Project Name: BATTERY PARK **Lab Number:** L2169537

Project Number: 20-1152 **Report Date:** 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-04 Date Collected: 12/16/21 14:30

Client ID: SB17 Date Received: 12/16/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
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
Vinyl acetate	ND		ug/l	5.0	1.0	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
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-04
Client ID: SB17
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 14:30
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	109		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-05
Client ID: GW FIELD BLANK
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 11:45
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/28/21 14:30
Analyst: LAC

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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	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

Project Name: BATTERY PARK **Lab Number:** L2169537

Project Number: 20-1152 **Report Date:** 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-05 Date Collected: 12/16/21 11:45

Client ID: GW FIELD BLANK Date Received: 12/16/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
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
Vinyl acetate	ND		ug/l	5.0	1.0	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
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-05
Client ID: GW FIELD BLANK
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 11:45
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/28/21 10:25
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1589516-5					
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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/28/21 10:25
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1589516-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
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
Vinyl acetate	ND		ug/l	5.0	1.0
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
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/28/21 10:25
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1589516-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	107		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169537

Report Date: 01/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1589516-3 WG1589516-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	99		100		70-130	1		20
Carbon tetrachloride	99		100		63-132	1		20
1,2-Dichloropropane	96		100		70-130	4		20
Dibromochloromethane	99		99		63-130	0		20
1,1,2-Trichloroethane	96		96		70-130	0		20
Tetrachloroethene	97		100		70-130	3		20
Chlorobenzene	97		100		75-130	3		20
Trichlorofluoromethane	100		100		62-150	0		20
1,2-Dichloroethane	96		99		70-130	3		20
1,1,1-Trichloroethane	97		100		67-130	3		20
Bromodichloromethane	96		99		67-130	3		20
trans-1,3-Dichloropropene	93		95		70-130	2		20
cis-1,3-Dichloropropene	98		100		70-130	2		20
1,1-Dichloropropene	98		100		70-130	2		20
Bromoform	84		90		54-136	7		20
1,1,2,2-Tetrachloroethane	98		100		67-130	2		20
Benzene	100		100		70-130	0		20
Toluene	96		100		70-130	4		20
Ethylbenzene	94		98		70-130	4		20
Chloromethane	91		96		64-130	5		20
Bromomethane	63		60		39-139	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169537

Report Date: 01/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1589516-3 WG1589516-4								
Vinyl chloride	90		94		55-140	4		20
Chloroethane	99		100		55-138	1		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	96		98		70-130	2		20
1,2-Dichlorobenzene	95		100		70-130	5		20
1,3-Dichlorobenzene	97		99		70-130	2		20
1,4-Dichlorobenzene	95		100		70-130	5		20
Methyl tert butyl ether	92		92		63-130	0		20
p/m-Xylene	95		100		70-130	5		20
o-Xylene	95		100		70-130	5		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Dibromomethane	98		100		70-130	2		20
1,2,3-Trichloropropane	91		96		64-130	5		20
Acrylonitrile	110		110		70-130	0		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	86		88		36-147	2		20
Acetone	98		90		58-148	9		20
Carbon disulfide	100		100		51-130	0		20
2-Butanone	100		100		63-138	0		20
Vinyl acetate	100		100		70-130	0		20
4-Methyl-2-pentanone	82		78		59-130	5		20
2-Hexanone	79		79		57-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169537

Report Date: 01/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1589516-3 WG1589516-4								
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	100		100		63-133	0		20
1,2-Dibromoethane	95		95		70-130	0		20
1,3-Dichloropropane	94		97		70-130	3		20
1,1,1,2-Tetrachloroethane	95		99		64-130	4		20
Bromobenzene	96		100		70-130	4		20
n-Butylbenzene	94		99		53-136	5		20
sec-Butylbenzene	95		100		70-130	5		20
tert-Butylbenzene	94		100		70-130	6		20
o-Chlorotoluene	94		98		70-130	4		20
p-Chlorotoluene	94		98		70-130	4		20
1,2-Dibromo-3-chloropropane	88		92		41-144	4		20
Hexachlorobutadiene	93		100		63-130	7		20
Isopropylbenzene	93		99		70-130	6		20
p-Isopropyltoluene	93		99		70-130	6		20
Naphthalene	90		93		70-130	3		20
n-Propylbenzene	95		99		69-130	4		20
1,2,3-Trichlorobenzene	94		99		70-130	5		20
1,2,4-Trichlorobenzene	94		96		70-130	2		20
1,3,5-Trimethylbenzene	91		96		64-130	5		20
1,2,4-Trimethylbenzene	91		95		70-130	4		20
1,4-Dioxane	112		112		56-162	0		20
p-Diethylbenzene	91		98		70-130	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169537

Report Date: 01/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1589516-3 WG1589516-4								
p-Ethyltoluene	95		100		70-130	5		20
1,2,4,5-Tetramethylbenzene	92		92		70-130	0		20
Ethyl ether	97		99		59-134	2		20
trans-1,4-Dichloro-2-butene	83		88		70-130	6		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		96		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	100		99		70-130

SEMIVOLATILES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-01
Client ID: SB26
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 10:30
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 12/23/21 18:46
Analyst: IM

Extraction Method: EPA 3510C
Extraction Date: 12/21/21 08:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-01
Client ID: SB26
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 10:30
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
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
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		21-120
Phenol-d6	56		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	58		10-120
4-Terphenyl-d14	92		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-01
Client ID: SB26
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 10:30
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 12/22/21 14:57
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 12/21/21 08:26

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	0.03	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	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: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-01
Client ID: SB26
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 10:30
Date Received: 12/16/21
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	59		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	100		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-02
Client ID: SB26 DUP
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 11:00
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 12/22/21 22:34
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 12/18/21 21:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-02
Client ID: SB26 DUP
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 11:00
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
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
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	29		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	52		15-120
2,4,6-Tribromophenol	36		10-120
4-Terphenyl-d14	69		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-02
Client ID: SB26 DUP
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 11:00
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 01/03/22 10:19
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 12/18/21 21:09

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	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	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	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	0.03	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-02
Client ID: SB26 DUP
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 11:00
Date Received: 12/16/21
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	38		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	62		15-120
2,4,6-Tribromophenol	51		10-120
4-Terphenyl-d14	79		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-03
Client ID: SB29
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 13:00
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 12/22/21 22:57
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 12/18/21 21:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-03
Client ID: SB29
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 13:00
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
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
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	26		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	56		15-120
2,4,6-Tribromophenol	26		10-120
4-Terphenyl-d14	69		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-03
Client ID: SB29
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 13:00
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 01/03/22 10:38
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 12/18/21 21:09

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	0.16		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	0.08	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.06	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.10		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.03	J	ug/l	0.10	0.01	1
Chrysene	0.09	J	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	0.06	J	ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.09	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	0.06	J	ug/l	0.10	0.01	1
Pyrene	0.15		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: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-03
Client ID: SB29
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 13:00
Date Received: 12/16/21
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	26		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	60		15-120
2,4,6-Tribromophenol	24		10-120
4-Terphenyl-d14	63		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-04
Client ID: SB17
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 14:30
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 12/23/21 19:12
Analyst: IM

Extraction Method: EPA 3510C
Extraction Date: 12/21/21 08:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-04
Client ID: SB17
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 14:30
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
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
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	61		15-120
2,4,6-Tribromophenol	45		10-120
4-Terphenyl-d14	84		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-04
Client ID: SB17
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 14:30
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 12/22/21 15:16
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 12/21/21 08:26

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	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	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	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.03	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.03	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-04
Client ID: SB17
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 14:30
Date Received: 12/16/21
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	48		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	59		10-120
4-Terphenyl-d14	81		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-05
Client ID: GW FIELD BLANK
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 11:45
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 12/22/21 23:21
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 12/18/21 21:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
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	1.7	J	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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-05
Client ID: GW FIELD BLANK
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 11:45
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
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
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	35		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	56		15-120
2,4,6-Tribromophenol	41		10-120
4-Terphenyl-d14	66		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-05
Client ID: GW FIELD BLANK
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 11:45
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 01/03/22 10:57
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 12/18/21 21:09

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	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	0.08	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	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: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-05
Client ID: GW FIELD BLANK
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 11:45
Date Received: 12/16/21
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	47		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	61		10-120
4-Terphenyl-d14	75		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/18/21 12:07
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 12/18/21 01:04

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,05 Batch: WG1584869-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
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
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/18/21 12:07
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 12/18/21 01:04

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,05 Batch: WG1584869-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
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
2-Methylnaphthalene	ND		ug/l	2.0	0.45
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
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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/18/21 12:07
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 12/18/21 01:04

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,05 Batch: WG1584869-1					
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
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		21-120
Phenol-d6	58		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	85		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	81		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 12/18/21 16:53
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 12/18/21 01:03

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 02-03,05 Batch: WG1584870-1					
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	0.02	J	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	0.03	J	ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	0.02	J	ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 12/18/21 16:53
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 12/18/21 01:03

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 02-03,05 Batch: WG1584870-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		21-120
Phenol-d6	59		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	94		15-120
2,4,6-Tribromophenol	95		10-120
4-Terphenyl-d14	110		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/22/21 11:48
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 12/21/21 08:26

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,04 Batch: WG1585900-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
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
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/22/21 11:48
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 12/21/21 08:26

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,04 Batch: WG1585900-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
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
2-Methylnaphthalene	ND		ug/l	2.0	0.45
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
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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/22/21 11:48
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 12/21/21 08:26

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,04 Batch: WG1585900-1					
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
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		21-120
Phenol-d6	61		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	95		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	107		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 12/22/21 16:42
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 12/21/21 08:26

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01,04 Batch: WG1585901-1					
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	0.04	J	ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 12/22/21 16:42
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 12/21/21 08:26

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01,04 Batch: WG1585901-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		21-120
Phenol-d6	55		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	96		15-120
2,4,6-Tribromophenol	71		10-120
4-Terphenyl-d14	111		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169537

Report Date: 01/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05 Batch: WG1584869-2 WG1584869-3								
Acenaphthene	68		78		37-111	14		30
1,2,4-Trichlorobenzene	69		80		39-98	15		30
Hexachlorobenzene	73		87		40-140	18		30
Bis(2-chloroethyl)ether	67		76		40-140	13		30
2-Chloronaphthalene	72		84		40-140	15		30
1,2-Dichlorobenzene	66		76		40-140	14		30
1,3-Dichlorobenzene	67		76		40-140	13		30
1,4-Dichlorobenzene	64		74		36-97	14		30
3,3'-Dichlorobenzidine	50		64		40-140	25		30
2,4-Dinitrotoluene	75		88		48-143	16		30
2,6-Dinitrotoluene	78		98		40-140	23		30
Fluoranthene	73		81		40-140	10		30
4-Chlorophenyl phenyl ether	73		85		40-140	15		30
4-Bromophenyl phenyl ether	80		92		40-140	14		30
Bis(2-chloroisopropyl)ether	73		80		40-140	9		30
Bis(2-chloroethoxy)methane	66		79		40-140	18		30
Hexachlorobutadiene	75		82		40-140	9		30
Hexachlorocyclopentadiene	67		82		40-140	20		30
Hexachloroethane	61		71		40-140	15		30
Isophorone	66		81		40-140	20		30
Naphthalene	67		77		40-140	14		30
Nitrobenzene	65		75		40-140	14		30
NDPA/DPA	70		83		40-140	17		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169537

Report Date: 01/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05 Batch: WG1584869-2 WG1584869-3								
n-Nitrosodi-n-propylamine	70		83		29-132	17		30
Bis(2-ethylhexyl)phthalate	80		92		40-140	14		30
Butyl benzyl phthalate	80		86		40-140	7		30
Di-n-butylphthalate	68		78		40-140	14		30
Di-n-octylphthalate	84		99		40-140	16		30
Diethyl phthalate	73		87		40-140	18		30
Dimethyl phthalate	69		83		40-140	18		30
Benzo(a)anthracene	74		86		40-140	15		30
Benzo(a)pyrene	73		85		40-140	15		30
Benzo(b)fluoranthene	84		98		40-140	15		30
Benzo(k)fluoranthene	73		87		40-140	18		30
Chrysene	71		81		40-140	13		30
Acenaphthylene	72		85		45-123	17		30
Anthracene	72		79		40-140	9		30
Benzo(ghi)perylene	80		96		40-140	18		30
Fluorene	72		85		40-140	17		30
Phenanthrene	69		78		40-140	12		30
Dibenzo(a,h)anthracene	75		92		40-140	20		30
Indeno(1,2,3-cd)pyrene	74		88		40-140	17		30
Pyrene	68		77		26-127	12		30
Biphenyl	77		90		40-140	16		30
4-Chloroaniline	**35**	Q	61		40-140	**54**	Q	30
2-Nitroaniline	75		90		52-143	18		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05 Batch: WG1584869-2 WG1584869-3								
3-Nitroaniline	51		66		25-145	26		30
4-Nitroaniline	67		81		51-143	19		30
Dibenzofuran	71		81		40-140	13		30
2-Methylnaphthalene	70		82		40-140	16		30
1,2,4,5-Tetrachlorobenzene	77		91		2-134	17		30
Acetophenone	69		83		39-129	18		30
2,4,6-Trichlorophenol	77		94		30-130	20		30
p-Chloro-m-cresol	72		88		23-97	20		30
2-Chlorophenol	70		80		27-123	13		30
2,4-Dichlorophenol	74		85		30-130	14		30
2,4-Dimethylphenol	64		78		30-130	20		30
2-Nitrophenol	70		82		30-130	16		30
4-Nitrophenol	62		68		10-80	9		30
2,4-Dinitrophenol	72		83		20-130	14		30
4,6-Dinitro-o-cresol	87		98		20-164	12		30
Pentachlorophenol	73		87		9-103	18		30
Phenol	57		65		12-110	13		30
2-Methylphenol	65		76		30-130	16		30
3-Methylphenol/4-Methylphenol	68		81		30-130	17		30
2,4,5-Trichlorophenol	80		99		30-130	21		30
Benzoic Acid	91		89		10-164	2		30
Benzyl Alcohol	62		72		26-116	15		30
Carbazole	71		76		55-144	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169537

Report Date: 01/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05 Batch: WG1584869-2 WG1584869-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	63		73		21-120
Phenol-d6	60		71		10-120
Nitrobenzene-d5	68		82		23-120
2-Fluorobiphenyl	76		91		15-120
2,4,6-Tribromophenol	82		98		10-120
4-Terphenyl-d14	71		85		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169537

Report Date: 01/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 02-03,05 Batch: WG1584870-2 WG1584870-3								
Acenaphthene	94		86		40-140	9		40
2-Chloronaphthalene	96		88		40-140	9		40
Fluoranthene	109		98		40-140	11		40
Hexachlorobutadiene	93		86		40-140	8		40
Naphthalene	93		86		40-140	8		40
Benzo(a)anthracene	98		89		40-140	10		40
Benzo(a)pyrene	106		95		40-140	11		40
Benzo(b)fluoranthene	115		96		40-140	18		40
Benzo(k)fluoranthene	108		100		40-140	8		40
Chrysene	98		87		40-140	12		40
Acenaphthylene	102		93		40-140	9		40
Anthracene	102		90		40-140	13		40
Benzo(ghi)perylene	94		83		40-140	12		40
Fluorene	102		92		40-140	10		40
Phenanthrene	98		87		40-140	12		40
Dibenzo(a,h)anthracene	105		93		40-140	12		40
Indeno(1,2,3-cd)pyrene	108		96		40-140	12		40
Pyrene	108		98		40-140	10		40
2-Methylnaphthalene	104		95		40-140	9		40
Pentachlorophenol	125		112		40-140	11		40
Hexachlorobenzene	103		92		40-140	11		40
Hexachloroethane	81		76		40-140	6		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 02-03,05 Batch: WG1584870-2 WG1584870-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	81		74		21-120
Phenol-d6	72		66		10-120
Nitrobenzene-d5	83		77		23-120
2-Fluorobiphenyl	104		96		15-120
2,4,6-Tribromophenol	**124**	Q	111		10-120
4-Terphenyl-d14	117		107		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169537

Report Date: 01/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1585900-2 WG1585900-3								
Acenaphthene	78		86		37-111	10		30
1,2,4-Trichlorobenzene	72		78		39-98	8		30
Hexachlorobenzene	84		91		40-140	8		30
Bis(2-chloroethyl)ether	72		77		40-140	7		30
2-Chloronaphthalene	84		89		40-140	6		30
1,2-Dichlorobenzene	68		74		40-140	8		30
1,3-Dichlorobenzene	66		72		40-140	9		30
1,4-Dichlorobenzene	66		74		36-97	11		30
3,3'-Dichlorobenzidine	72		80		40-140	11		30
2,4-Dinitrotoluene	89		96		48-143	8		30
2,6-Dinitrotoluene	100		106		40-140	6		30
Fluoranthene	84		93		40-140	10		30
4-Chlorophenyl phenyl ether	85		91		40-140	7		30
4-Bromophenyl phenyl ether	96		102		40-140	6		30
Bis(2-chloroisopropyl)ether	85		89		40-140	5		30
Bis(2-chloroethoxy)methane	77		83		40-140	8		30
Hexachlorobutadiene	75		84		40-140	11		30
Hexachlorocyclopentadiene	76		83		40-140	9		30
Hexachloroethane	63		72		40-140	13		30
Isophorone	81		84		40-140	4		30
Naphthalene	75		82		40-140	9		30
Nitrobenzene	72		75		40-140	4		30
NDPA/DPA	80		93		40-140	15		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1585900-2 WG1585900-3								
n-Nitrosodi-n-propylamine	83		86		29-132	4		30
Bis(2-ethylhexyl)phthalate	110		119		40-140	8		30
Butyl benzyl phthalate	96		108		40-140	12		30
Di-n-butylphthalate	87		95		40-140	9		30
Di-n-octylphthalate	113		121		40-140	7		30
Diethyl phthalate	94		102		40-140	8		30
Dimethyl phthalate	87		91		40-140	4		30
Benzo(a)anthracene	86		96		40-140	11		30
Benzo(a)pyrene	83		88		40-140	6		30
Benzo(b)fluoranthene	99		106		40-140	7		30
Benzo(k)fluoranthene	84		89		40-140	6		30
Chrysene	85		90		40-140	6		30
Acenaphthylene	86		92		45-123	7		30
Anthracene	79		88		40-140	11		30
Benzo(ghi)perylene	96		108		40-140	12		30
Fluorene	87		92		40-140	6		30
Phenanthrene	78		84		40-140	7		30
Dibenzo(a,h)anthracene	91		96		40-140	5		30
Indeno(1,2,3-cd)pyrene	88		96		40-140	9		30
Pyrene	81		91		26-127	12		30
Biphenyl	90		96		40-140	6		30
4-Chloroaniline	67		75		40-140	11		30
2-Nitroaniline	92		98		52-143	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1585900-2 WG1585900-3								
3-Nitroaniline	79		85		25-145	7		30
4-Nitroaniline	87		96		51-143	10		30
Dibenzofuran	82		86		40-140	5		30
2-Methylnaphthalene	81		88		40-140	8		30
1,2,4,5-Tetrachlorobenzene	87		97		2-134	11		30
Acetophenone	84		88		39-129	5		30
2,4,6-Trichlorophenol	95		99		30-130	4		30
p-Chloro-m-cresol	91		96		23-97	5		30
2-Chlorophenol	74		80		27-123	8		30
2,4-Dichlorophenol	81		88		30-130	8		30
2,4-Dimethylphenol	62		70		30-130	12		30
2-Nitrophenol	80		88		30-130	10		30
4-Nitrophenol	76		**83**	Q	10-80	9		30
2,4-Dinitrophenol	65		58		20-130	11		30
4,6-Dinitro-o-cresol	99		103		20-164	4		30
Pentachlorophenol	78		75		9-103	4		30
Phenol	61		64		12-110	5		30
2-Methylphenol	72		78		30-130	8		30
3-Methylphenol/4-Methylphenol	75		81		30-130	8		30
2,4,5-Trichlorophenol	98		101		30-130	3		30
Benzoic Acid	65		60		10-164	8		30
Benzyl Alcohol	72		76		26-116	5		30
Carbazole	79		86		55-144	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169537

Report Date: 01/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1585900-2 WG1585900-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	67		70		21-120
Phenol-d6	66		67		10-120
Nitrobenzene-d5	77		84		23-120
2-Fluorobiphenyl	89		93		15-120
2,4,6-Tribromophenol	95		107		10-120
4-Terphenyl-d14	85		94		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01,04 Batch: WG1585901-2 WG1585901-3								
Acenaphthene	70		93		40-140	28		40
2-Chloronaphthalene	72		96		40-140	29		40
Fluoranthene	85		109		40-140	25		40
Hexachlorobutadiene	65		85		40-140	27		40
Naphthalene	67		89		40-140	28		40
Benzo(a)anthracene	84		107		40-140	24		40
Benzo(a)pyrene	88		108		40-140	20		40
Benzo(b)fluoranthene	89		112		40-140	23		40
Benzo(k)fluoranthene	89		110		40-140	21		40
Chrysene	80		100		40-140	22		40
Acenaphthylene	78		103		40-140	28		40
Anthracene	79		103		40-140	26		40
Benzo(ghi)perylene	89		112		40-140	23		40
Fluorene	77		101		40-140	27		40
Phenanthrene	76		99		40-140	26		40
Dibenzo(a,h)anthracene	98		124		40-140	23		40
Indeno(1,2,3-cd)pyrene	104		132		40-140	24		40
Pyrene	84		108		40-140	25		40
2-Methylnaphthalene	78		103		40-140	28		40
Pentachlorophenol	66		108		40-140	**48**	Q	40
Hexachlorobenzene	72		94		40-140	27		40
Hexachloroethane	59		76		40-140	25		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

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

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01,04 Batch: WG1585901-2 WG1585901-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	55		69		21-120
Phenol-d6	49		62		10-120
Nitrobenzene-d5	63		84		23-120
2-Fluorobiphenyl	75		97		15-120
2,4,6-Tribromophenol	75		86		10-120
4-Terphenyl-d14	90		112		41-149

PCBS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-01
Client ID: SB26
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 10:30
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 12/22/21 19:54
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 12/21/21 14:25
Cleanup Method: EPA 3665A
Cleanup Date: 12/21/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	43		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-02
Client ID: SB26 DUP
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 11:00
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 12/30/21 14:56
Analyst: CW

Extraction Method: EPA 3510C
Extraction Date: 12/30/21 01:45
Cleanup Method: EPA 3665A
Cleanup Date: 12/30/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/30/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	95		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-03
Client ID: SB29
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 13:00
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 12/30/21 15:05
Analyst: CW

Extraction Method: EPA 3510C
Extraction Date: 12/30/21 01:45
Cleanup Method: EPA 3665A
Cleanup Date: 12/30/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/30/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-04
Client ID: SB17
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 14:30
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 12/30/21 15:15
Analyst: CW

Extraction Method: EPA 3510C
Extraction Date: 12/30/21 01:45
Cleanup Method: EPA 3665A
Cleanup Date: 12/30/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/30/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-05
Client ID: GW FIELD BLANK
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 11:45
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 12/30/21 15:24
Analyst: CW

Extraction Method: EPA 3510C
Extraction Date: 12/30/21 01:45
Cleanup Method: EPA 3665A
Cleanup Date: 12/30/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/30/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 12/22/21 18:51
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 12/21/21 14:25
Cleanup Method: EPA 3665A
Cleanup Date: 12/21/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1586143-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 12/30/21 14:28
Analyst: JWL

Extraction Method: EPA 3510C
Extraction Date: 12/30/21 01:45
Cleanup Method: EPA 3665A
Cleanup Date: 12/30/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/30/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02-05 Batch: WG1589030-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	86		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169537

Report Date: 01/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1586143-2 WG1586143-3									
Aroclor 1016	61		56		40-140	8		50	A
Aroclor 1260	65		59		40-140	9		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		53		30-150	A
Decachlorobiphenyl	68		62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		64		30-150	B
Decachlorobiphenyl	79		72		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169537

Report Date: 01/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02-05 Batch: WG1589030-2 WG1589030-3									
Aroclor 1016	94		85		40-140	11		50	A
Aroclor 1260	94		85		40-140	10		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		81		30-150	A
Decachlorobiphenyl	99		88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		77		30-150	B
Decachlorobiphenyl	89		80		30-150	B

PESTICIDES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-01
Client ID: SB26
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 10:30
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 12/23/21 14:19
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 12/21/21 11:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-01
Client ID: SB26
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 10:30
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-01
Client ID: SB26
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 10:30
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 01/03/22 11:33
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 12/22/21 03:12

Methylation Date: 12/23/21 21:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	60		30-150	A
DCAA	60		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-02
Client ID: SB26 DUP
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 11:00
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 12/20/21 14:25
Analyst: JAW
Extraction Method: EPA 3510C
Extraction Date: 12/18/21 23:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-02
Client ID: SB26 DUP
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 11:00
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	94		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-02
Client ID: SB26 DUP
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 11:00
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 01/03/22 11:51
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 12/22/21 03:12

Methylation Date: 12/23/21 21:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	35		30-150	A
DCAA	37		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-03
Client ID: SB29
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 13:00
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 12/20/21 14:38
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 12/18/21 23:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-03
Client ID: SB29
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 13:00
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	98		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-03
Client ID: SB29
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 13:00
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 01/03/22 12:09
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 12/22/21 03:12

Methylation Date: 12/23/21 21:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	45		30-150	A
DCAA	42		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-04
Client ID: SB17
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 14:30
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 12/23/21 14:53
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 12/21/21 11:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: BATTERY PARK
Lab Number: L2169537
Project Number: 20-1152
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-04
Client ID: SB17
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 14:30
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-04
Client ID: SB17
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 14:30
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 01/03/22 12:27
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 12/22/21 03:12

Methylation Date: 12/23/21 21:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	78		30-150	A
DCAA	72		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-05
Client ID: GW FIELD BLANK
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 11:45
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 12/20/21 14:50
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 12/18/21 23:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-05
Client ID: GW FIELD BLANK
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 11:45
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-05
Client ID: GW FIELD BLANK
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 11:45
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 01/03/22 12:46
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 12/22/21 03:12

Methylation Date: 12/23/21 21:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	76		30-150	A
DCAA	75		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/20/21 11:04
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 12/18/21 14:29

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02-03,05 Batch: WG1585050-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/20/21 11:04
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 12/18/21 14:29

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02-03,05 Batch: WG1585050-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/23/21 09:00
Analyst: AR

Extraction Method: EPA 3510C
Extraction Date: 12/21/21 11:29

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,04 Batch: WG1586022-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/23/21 09:00
Analyst: AR

Extraction Method: EPA 3510C
Extraction Date: 12/21/21 11:29

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,04 Batch: WG1586022-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 12/24/21 12:11
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 12/22/21 03:12

Methylation Date: 12/23/21 21:59

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1586391-1						
2,4-D	ND		ug/l	10.0	0.498	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	97		30-150	A
DCAA	71		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02-03,05 Batch: WG1585050-2 WG1585050-3									
Delta-BHC	54		56		30-150	4		20	A
Lindane	76		77		30-150	2		20	A
Alpha-BHC	75		76		30-150	2		20	A
Beta-BHC	95		92		30-150	3		20	A
Heptachlor	76		77		30-150	1		20	A
Aldrin	89		89		30-150	1		20	A
Heptachlor epoxide	78		78		30-150	0		20	A
Endrin	93		94		30-150	1		20	A
Endrin aldehyde	65		69		30-150	6		20	A
Endrin ketone	97		102		30-150	5		20	A
Dieldrin	83		83		30-150	0		20	A
4,4'-DDE	82		82		30-150	0		20	A
4,4'-DDD	87		88		30-150	1		20	A
4,4'-DDT	80		80		30-150	0		20	A
Endosulfan I	75		76		30-150	1		20	A
Endosulfan II	77		81		30-150	5		20	A
Endosulfan sulfate	79		84		30-150	7		20	A
Methoxychlor	112		114		30-150	2		20	A
cis-Chlordane	88		87		30-150	0		20	A
trans-Chlordane	101		102		30-150	1		20	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

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

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02-03,05 Batch: WG1585050-2 WG1585050-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		85		30-150	A
Decachlorobiphenyl	84		84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		65		30-150	B
Decachlorobiphenyl	76		76		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169537

Report Date: 01/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,04 Batch: WG1586022-2 WG1586022-3									
Delta-BHC	46		42		30-150	10		20	A
Lindane	69		62		30-150	10		20	A
Alpha-BHC	59		54		30-150	10		20	A
Beta-BHC	67		61		30-150	9		20	A
Heptachlor	68		61		30-150	12		20	A
Aldrin	70		60		30-150	16		20	A
Heptachlor epoxide	63		54		30-150	16		20	A
Endrin	71		61		30-150	15		20	A
Endrin aldehyde	62		53		30-150	15		20	A
Endrin ketone	68		61		30-150	11		20	A
Dieldrin	75		63		30-150	17		20	A
4,4'-DDE	73		61		30-150	18		20	A
4,4'-DDD	75		63		30-150	17		20	A
4,4'-DDT	70		59		30-150	16		20	A
Endosulfan I	69		58		30-150	17		20	A
Endosulfan II	68		60		30-150	13		20	A
Endosulfan sulfate	64		60		30-150	8		20	A
Methoxychlor	76		69		30-150	9		20	A
cis-Chlordane	59		49		30-150	19		20	A
trans-Chlordane	76		65		30-150	16		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169537

Report Date: 01/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,04 Batch: WG1586022-2 WG1586022-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		53		30-150	A
Decachlorobiphenyl	74		78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		48		30-150	B
Decachlorobiphenyl	80		70		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169537

Report Date: 01/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1586391-2 WG1586391-3									
2,4-D	85		82		30-150	4		25	A
2,4,5-T	84		82		30-150	2		25	A
2,4,5-TP (Silvex)	82		80		30-150	2		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	85		83		30-150	A
DCAA	99		94		30-150	B

METALS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-01
Client ID: SB26
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Water

Date Collected: 12/16/21 10:30
Date Received: 12/16/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.0327	10	12/30/21 12:20	01/04/22 16:13	EPA 3005A	1,6020B	WP
Antimony, Total	ND		mg/l	0.04000	0.00429	10	12/30/21 12:20	01/04/22 16:13	EPA 3005A	1,6020B	WP
Arsenic, Total	ND		mg/l	0.00500	0.00165	10	12/30/21 12:20	01/04/22 16:13	EPA 3005A	1,6020B	WP
Barium, Total	0.03874		mg/l	0.00500	0.00173	10	12/30/21 12:20	01/04/22 16:13	EPA 3005A	1,6020B	WP
Beryllium, Total	ND		mg/l	0.00500	0.00107	10	12/30/21 12:20	01/04/22 16:13	EPA 3005A	1,6020B	WP
Cadmium, Total	ND		mg/l	0.00200	0.00059	10	12/30/21 12:20	01/04/22 16:13	EPA 3005A	1,6020B	WP
Calcium, Total	177.		mg/l	1.00	0.394	10	12/30/21 12:20	01/04/22 16:13	EPA 3005A	1,6020B	WP
Chromium, Total	ND		mg/l	0.01000	0.00178	10	12/30/21 12:20	01/04/22 16:13	EPA 3005A	1,6020B	WP
Cobalt, Total	ND		mg/l	0.00500	0.00163	10	12/30/21 12:20	01/04/22 16:13	EPA 3005A	1,6020B	WP
Copper, Total	ND		mg/l	0.01000	0.00384	10	12/30/21 12:20	01/04/22 16:13	EPA 3005A	1,6020B	WP
Iron, Total	ND		mg/l	0.500	0.191	10	12/30/21 12:20	01/04/22 16:13	EPA 3005A	1,6020B	WP
Lead, Total	ND		mg/l	0.01000	0.00343	10	12/30/21 12:20	01/04/22 16:13	EPA 3005A	1,6020B	WP
Magnesium, Total	500.		mg/l	0.700	0.242	10	12/30/21 12:20	01/04/22 16:13	EPA 3005A	1,6020B	WP
Manganese, Total	0.04410		mg/l	0.01000	0.00440	10	12/30/21 12:20	01/04/22 16:13	EPA 3005A	1,6020B	WP
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/30/21 12:23	01/03/22 09:50	EPA 7470A	1,7470A	AC
Nickel, Total	0.01246	J	mg/l	0.02000	0.00556	10	12/30/21 12:20	01/04/22 16:13	EPA 3005A	1,6020B	WP
Potassium, Total	153.		mg/l	1.00	0.309	10	12/30/21 12:20	01/04/22 16:13	EPA 3005A	1,6020B	WP
Selenium, Total	ND		mg/l	0.0500	0.0173	10	12/30/21 12:20	01/04/22 16:13	EPA 3005A	1,6020B	WP
Silver, Total	ND		mg/l	0.00400	0.00163	10	12/30/21 12:20	01/04/22 16:13	EPA 3005A	1,6020B	WP
Sodium, Total	4730		mg/l	1.00	0.293	10	12/30/21 12:20	01/04/22 16:13	EPA 3005A	1,6020B	WP
Thallium, Total	ND		mg/l	0.01000	0.00143	10	12/30/21 12:20	01/04/22 16:13	EPA 3005A	1,6020B	WP
Vanadium, Total	ND		mg/l	0.05000	0.01570	10	12/30/21 12:20	01/04/22 16:13	EPA 3005A	1,6020B	WP
Zinc, Total	ND		mg/l	0.1000	0.03410	10	12/30/21 12:20	01/04/22 16:13	EPA 3005A	1,6020B	WP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		01/04/22 16:13	NA	107,-	

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-01
Client ID: SB26
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Water

Date Collected: 12/16/21 10:30
Date Received: 12/16/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.100	0.0327	10	12/29/21 17:14	01/04/22 11:46	EPA 3005A	1,6020B	SV
Antimony, Dissolved	ND		mg/l	0.04000	0.00429	10	12/29/21 17:14	01/04/22 11:46	EPA 3005A	1,6020B	SV
Arsenic, Dissolved	ND		mg/l	0.00500	0.00165	10	12/29/21 17:14	01/04/22 11:46	EPA 3005A	1,6020B	SV
Barium, Dissolved	0.04342		mg/l	0.00500	0.00173	10	12/29/21 17:14	01/04/22 11:46	EPA 3005A	1,6020B	SV
Beryllium, Dissolved	ND		mg/l	0.00500	0.00107	10	12/29/21 17:14	01/04/22 11:46	EPA 3005A	1,6020B	SV
Cadmium, Dissolved	ND		mg/l	0.00200	0.00059	10	12/29/21 17:14	01/04/22 11:46	EPA 3005A	1,6020B	SV
Calcium, Dissolved	232.		mg/l	1.00	0.394	10	12/29/21 17:14	01/04/22 11:46	EPA 3005A	1,6020B	SV
Chromium, Dissolved	ND		mg/l	0.01000	0.00178	10	12/29/21 17:14	01/04/22 11:46	EPA 3005A	1,6020B	SV
Cobalt, Dissolved	ND		mg/l	0.00500	0.00163	10	12/29/21 17:14	01/04/22 11:46	EPA 3005A	1,6020B	SV
Copper, Dissolved	ND		mg/l	0.01000	0.00384	10	12/29/21 17:14	01/04/22 11:46	EPA 3005A	1,6020B	SV
Iron, Dissolved	ND		mg/l	0.500	0.191	10	12/29/21 17:14	01/04/22 11:46	EPA 3005A	1,6020B	SV
Lead, Dissolved	ND		mg/l	0.01000	0.00343	10	12/29/21 17:14	01/04/22 11:46	EPA 3005A	1,6020B	SV
Magnesium, Dissolved	588.		mg/l	0.700	0.242	10	12/29/21 17:14	01/04/22 11:46	EPA 3005A	1,6020B	SV
Manganese, Dissolved	0.06062		mg/l	0.01000	0.00440	10	12/29/21 17:14	01/04/22 11:46	EPA 3005A	1,6020B	SV
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/29/21 17:16	12/30/21 17:27	EPA 7470A	1,7470A	NB
Nickel, Dissolved	0.01440	J	mg/l	0.02000	0.00556	10	12/29/21 17:14	01/04/22 11:46	EPA 3005A	1,6020B	SV
Potassium, Dissolved	183.		mg/l	1.00	0.309	10	12/29/21 17:14	01/04/22 11:46	EPA 3005A	1,6020B	SV
Selenium, Dissolved	ND		mg/l	0.0500	0.0173	10	12/29/21 17:14	01/04/22 11:46	EPA 3005A	1,6020B	SV
Silver, Dissolved	ND		mg/l	0.00400	0.00163	10	12/29/21 17:14	01/04/22 11:46	EPA 3005A	1,6020B	SV
Sodium, Dissolved	4810		mg/l	10.0	2.93	100	12/29/21 17:14	01/04/22 13:50	EPA 3005A	1,6020B	SV
Thallium, Dissolved	ND		mg/l	0.01000	0.00143	10	12/29/21 17:14	01/04/22 11:46	EPA 3005A	1,6020B	SV
Vanadium, Dissolved	ND		mg/l	0.05000	0.01570	10	12/29/21 17:14	01/04/22 11:46	EPA 3005A	1,6020B	SV
Zinc, Dissolved	ND		mg/l	0.1000	0.03410	10	12/29/21 17:14	01/04/22 11:46	EPA 3005A	1,6020B	SV

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-02
Client ID: SB26 DUP
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Water

Date Collected: 12/16/21 11:00
Date Received: 12/16/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0621	J	mg/l	0.100	0.0327	10	12/30/21 12:20	01/04/22 16:18	EPA 3005A	1,6020B	WP
Antimony, Total	ND		mg/l	0.04000	0.00429	10	12/30/21 12:20	01/04/22 16:18	EPA 3005A	1,6020B	WP
Arsenic, Total	ND		mg/l	0.00500	0.00165	10	12/30/21 12:20	01/04/22 16:18	EPA 3005A	1,6020B	WP
Barium, Total	0.03851		mg/l	0.00500	0.00173	10	12/30/21 12:20	01/04/22 16:18	EPA 3005A	1,6020B	WP
Beryllium, Total	ND		mg/l	0.00500	0.00107	10	12/30/21 12:20	01/04/22 16:18	EPA 3005A	1,6020B	WP
Cadmium, Total	ND		mg/l	0.00200	0.00059	10	12/30/21 12:20	01/04/22 16:18	EPA 3005A	1,6020B	WP
Calcium, Total	181.		mg/l	1.00	0.394	10	12/30/21 12:20	01/04/22 16:18	EPA 3005A	1,6020B	WP
Chromium, Total	ND		mg/l	0.01000	0.00178	10	12/30/21 12:20	01/04/22 16:18	EPA 3005A	1,6020B	WP
Cobalt, Total	ND		mg/l	0.00500	0.00163	10	12/30/21 12:20	01/04/22 16:18	EPA 3005A	1,6020B	WP
Copper, Total	ND		mg/l	0.01000	0.00384	10	12/30/21 12:20	01/04/22 16:18	EPA 3005A	1,6020B	WP
Iron, Total	ND		mg/l	0.500	0.191	10	12/30/21 12:20	01/04/22 16:18	EPA 3005A	1,6020B	WP
Lead, Total	ND		mg/l	0.01000	0.00343	10	12/30/21 12:20	01/04/22 16:18	EPA 3005A	1,6020B	WP
Magnesium, Total	513.		mg/l	0.700	0.242	10	12/30/21 12:20	01/04/22 16:18	EPA 3005A	1,6020B	WP
Manganese, Total	0.04113		mg/l	0.01000	0.00440	10	12/30/21 12:20	01/04/22 16:18	EPA 3005A	1,6020B	WP
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/30/21 12:23	01/03/22 09:54	EPA 7470A	1,7470A	AC
Nickel, Total	0.01337	J	mg/l	0.02000	0.00556	10	12/30/21 12:20	01/04/22 16:18	EPA 3005A	1,6020B	WP
Potassium, Total	154.		mg/l	1.00	0.309	10	12/30/21 12:20	01/04/22 16:18	EPA 3005A	1,6020B	WP
Selenium, Total	ND		mg/l	0.0500	0.0173	10	12/30/21 12:20	01/04/22 16:18	EPA 3005A	1,6020B	WP
Silver, Total	ND		mg/l	0.00400	0.00163	10	12/30/21 12:20	01/04/22 16:18	EPA 3005A	1,6020B	WP
Sodium, Total	4800		mg/l	1.00	0.293	10	12/30/21 12:20	01/04/22 16:18	EPA 3005A	1,6020B	WP
Thallium, Total	ND		mg/l	0.01000	0.00143	10	12/30/21 12:20	01/04/22 16:18	EPA 3005A	1,6020B	WP
Vanadium, Total	ND		mg/l	0.05000	0.01570	10	12/30/21 12:20	01/04/22 16:18	EPA 3005A	1,6020B	WP
Zinc, Total	ND		mg/l	0.1000	0.03410	10	12/30/21 12:20	01/04/22 16:18	EPA 3005A	1,6020B	WP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		01/04/22 16:18	NA	107,-	

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-02
Client ID: SB26 DUP
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Water

Date Collected: 12/16/21 11:00
Date Received: 12/16/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.100	0.0327	10	12/29/21 17:14	01/04/22 12:10	EPA 3005A	1,6020B	SV
Antimony, Dissolved	ND		mg/l	0.04000	0.00429	10	12/29/21 17:14	01/04/22 12:10	EPA 3005A	1,6020B	SV
Arsenic, Dissolved	ND		mg/l	0.00500	0.00165	10	12/29/21 17:14	01/04/22 12:10	EPA 3005A	1,6020B	SV
Barium, Dissolved	0.03784		mg/l	0.00500	0.00173	10	12/29/21 17:14	01/04/22 12:10	EPA 3005A	1,6020B	SV
Beryllium, Dissolved	ND		mg/l	0.00500	0.00107	10	12/29/21 17:14	01/04/22 12:10	EPA 3005A	1,6020B	SV
Cadmium, Dissolved	ND		mg/l	0.00200	0.00059	10	12/29/21 17:14	01/04/22 12:10	EPA 3005A	1,6020B	SV
Calcium, Dissolved	191.		mg/l	1.00	0.394	10	12/29/21 17:14	01/04/22 12:10	EPA 3005A	1,6020B	SV
Chromium, Dissolved	ND		mg/l	0.01000	0.00178	10	12/29/21 17:14	01/04/22 12:10	EPA 3005A	1,6020B	SV
Cobalt, Dissolved	ND		mg/l	0.00500	0.00163	10	12/29/21 17:14	01/04/22 12:10	EPA 3005A	1,6020B	SV
Copper, Dissolved	ND		mg/l	0.01000	0.00384	10	12/29/21 17:14	01/04/22 12:10	EPA 3005A	1,6020B	SV
Iron, Dissolved	ND		mg/l	0.500	0.191	10	12/29/21 17:14	01/04/22 12:10	EPA 3005A	1,6020B	SV
Lead, Dissolved	ND		mg/l	0.01000	0.00343	10	12/29/21 17:14	01/04/22 12:10	EPA 3005A	1,6020B	SV
Magnesium, Dissolved	534.		mg/l	0.700	0.242	10	12/29/21 17:14	01/04/22 12:10	EPA 3005A	1,6020B	SV
Manganese, Dissolved	0.04172		mg/l	0.01000	0.00440	10	12/29/21 17:14	01/04/22 12:10	EPA 3005A	1,6020B	SV
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/29/21 17:16	12/30/21 17:17	EPA 7470A	1,7470A	NB
Nickel, Dissolved	0.01141	J	mg/l	0.02000	0.00556	10	12/29/21 17:14	01/04/22 12:10	EPA 3005A	1,6020B	SV
Potassium, Dissolved	163.		mg/l	1.00	0.309	10	12/29/21 17:14	01/04/22 12:10	EPA 3005A	1,6020B	SV
Selenium, Dissolved	ND		mg/l	0.0500	0.0173	10	12/29/21 17:14	01/04/22 12:10	EPA 3005A	1,6020B	SV
Silver, Dissolved	ND		mg/l	0.00400	0.00163	10	12/29/21 17:14	01/04/22 12:10	EPA 3005A	1,6020B	SV
Sodium, Dissolved	4830		mg/l	1.00	0.293	10	12/29/21 17:14	01/04/22 12:10	EPA 3005A	1,6020B	SV
Thallium, Dissolved	ND		mg/l	0.01000	0.00143	10	12/29/21 17:14	01/04/22 12:10	EPA 3005A	1,6020B	SV
Vanadium, Dissolved	ND		mg/l	0.05000	0.01570	10	12/29/21 17:14	01/04/22 12:10	EPA 3005A	1,6020B	SV
Zinc, Dissolved	ND		mg/l	0.1000	0.03410	10	12/29/21 17:14	01/04/22 12:10	EPA 3005A	1,6020B	SV

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-03
Client ID: SB29
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 13:00
Date Received: 12/16/21
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	ND		mg/l	0.100	0.0327	10	12/30/21 12:20	01/04/22 17:02	EPA 3005A	1,6020B	WP
Antimony, Total	ND		mg/l	0.04000	0.00429	10	12/30/21 12:20	01/04/22 17:02	EPA 3005A	1,6020B	WP
Arsenic, Total	0.00191	J	mg/l	0.00500	0.00165	10	12/30/21 12:20	01/04/22 17:02	EPA 3005A	1,6020B	WP
Barium, Total	0.02429		mg/l	0.00500	0.00173	10	12/30/21 12:20	01/04/22 17:02	EPA 3005A	1,6020B	WP
Beryllium, Total	ND		mg/l	0.00500	0.00107	10	12/30/21 12:20	01/04/22 17:02	EPA 3005A	1,6020B	WP
Cadmium, Total	ND		mg/l	0.00200	0.00059	10	12/30/21 12:20	01/04/22 17:02	EPA 3005A	1,6020B	WP
Calcium, Total	131.		mg/l	1.00	0.394	10	12/30/21 12:20	01/04/22 17:02	EPA 3005A	1,6020B	WP
Chromium, Total	ND		mg/l	0.01000	0.00178	10	12/30/21 12:20	01/04/22 17:02	EPA 3005A	1,6020B	WP
Cobalt, Total	ND		mg/l	0.00500	0.00163	10	12/30/21 12:20	01/04/22 17:02	EPA 3005A	1,6020B	WP
Copper, Total	ND		mg/l	0.01000	0.00384	10	12/30/21 12:20	01/04/22 17:02	EPA 3005A	1,6020B	WP
Iron, Total	ND		mg/l	0.500	0.191	10	12/30/21 12:20	01/04/22 17:02	EPA 3005A	1,6020B	WP
Lead, Total	ND		mg/l	0.01000	0.00343	10	12/30/21 12:20	01/04/22 17:02	EPA 3005A	1,6020B	WP
Magnesium, Total	368.		mg/l	0.700	0.242	10	12/30/21 12:20	01/04/22 17:02	EPA 3005A	1,6020B	WP
Manganese, Total	ND		mg/l	0.01000	0.00440	10	12/30/21 12:20	01/04/22 17:02	EPA 3005A	1,6020B	WP
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/30/21 12:23	01/03/22 09:57	EPA 7470A	1,7470A	AC
Nickel, Total	ND		mg/l	0.02000	0.00556	10	12/30/21 12:20	01/04/22 17:02	EPA 3005A	1,6020B	WP
Potassium, Total	121.		mg/l	1.00	0.309	10	12/30/21 12:20	01/04/22 17:02	EPA 3005A	1,6020B	WP
Selenium, Total	ND		mg/l	0.0500	0.0173	10	12/30/21 12:20	01/04/22 17:02	EPA 3005A	1,6020B	WP
Silver, Total	ND		mg/l	0.00400	0.00163	10	12/30/21 12:20	01/04/22 17:02	EPA 3005A	1,6020B	WP
Sodium, Total	3570		mg/l	1.00	0.293	10	12/30/21 12:20	01/04/22 17:02	EPA 3005A	1,6020B	WP
Thallium, Total	ND		mg/l	0.01000	0.00143	10	12/30/21 12:20	01/04/22 17:02	EPA 3005A	1,6020B	WP
Vanadium, Total	ND		mg/l	0.05000	0.01570	10	12/30/21 12:20	01/04/22 17:02	EPA 3005A	1,6020B	WP
Zinc, Total	ND		mg/l	0.1000	0.03410	10	12/30/21 12:20	01/04/22 17:02	EPA 3005A	1,6020B	WP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		01/04/22 17:02	NA	107,-	

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-03
Client ID: SB29
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 13:00
Date Received: 12/16/21
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
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00749	J	mg/l	0.0100	0.00327	1	12/29/21 17:14	01/04/22 12:15	EPA 3005A	1,6020B	SV
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	12/29/21 17:14	01/04/22 12:15	EPA 3005A	1,6020B	SV
Arsenic, Dissolved	0.00145		mg/l	0.00050	0.00016	1	12/29/21 17:14	01/04/22 12:15	EPA 3005A	1,6020B	SV
Barium, Dissolved	0.02205		mg/l	0.00050	0.00017	1	12/29/21 17:14	01/04/22 12:15	EPA 3005A	1,6020B	SV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	12/29/21 17:14	01/04/22 12:15	EPA 3005A	1,6020B	SV
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	12/29/21 17:14	01/04/22 12:15	EPA 3005A	1,6020B	SV
Calcium, Dissolved	39.4		mg/l	0.100	0.0394	1	12/29/21 17:14	01/04/22 12:15	EPA 3005A	1,6020B	SV
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	12/29/21 17:14	01/04/22 12:15	EPA 3005A	1,6020B	SV
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	12/29/21 17:14	01/04/22 12:15	EPA 3005A	1,6020B	SV
Copper, Dissolved	0.00160		mg/l	0.00100	0.00038	1	12/29/21 17:14	01/04/22 12:15	EPA 3005A	1,6020B	SV
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	12/29/21 17:14	01/04/22 12:15	EPA 3005A	1,6020B	SV
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	12/29/21 17:14	01/04/22 12:15	EPA 3005A	1,6020B	SV
Magnesium, Dissolved	405.		mg/l	0.0700	0.0242	1	12/29/21 17:14	01/04/22 12:15	EPA 3005A	1,6020B	SV
Manganese, Dissolved	0.00189		mg/l	0.00100	0.00044	1	12/29/21 17:14	01/04/22 12:15	EPA 3005A	1,6020B	SV
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/29/21 17:16	12/30/21 17:37	EPA 7470A	1,7470A	NB
Nickel, Dissolved	0.00179	J	mg/l	0.00200	0.00055	1	12/29/21 17:14	01/04/22 12:15	EPA 3005A	1,6020B	SV
Potassium, Dissolved	78.4		mg/l	0.100	0.0309	1	12/29/21 17:14	01/04/22 12:15	EPA 3005A	1,6020B	SV
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	12/29/21 17:14	01/04/22 12:15	EPA 3005A	1,6020B	SV
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	12/29/21 17:14	01/04/22 12:15	EPA 3005A	1,6020B	SV
Sodium, Dissolved	3490		mg/l	2.00	0.586	20	12/29/21 17:14	01/04/22 15:54	EPA 3005A	1,6020B	WP
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	12/29/21 17:14	01/04/22 12:15	EPA 3005A	1,6020B	SV
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	12/29/21 17:14	01/04/22 12:15	EPA 3005A	1,6020B	SV
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	12/29/21 17:14	01/04/22 12:15	EPA 3005A	1,6020B	SV

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-04
Client ID: SB17
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Water
Date Collected: 12/16/21 14:30
Date Received: 12/16/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.315		mg/l	0.100	0.0327	10	12/30/21 12:20	01/04/22 17:06	EPA 3005A	1,6020B	WP
Antimony, Total	ND		mg/l	0.04000	0.00429	10	12/30/21 12:20	01/04/22 17:06	EPA 3005A	1,6020B	WP
Arsenic, Total	0.00273	J	mg/l	0.00500	0.00165	10	12/30/21 12:20	01/04/22 17:06	EPA 3005A	1,6020B	WP
Barium, Total	0.01203		mg/l	0.00500	0.00173	10	12/30/21 12:20	01/04/22 17:06	EPA 3005A	1,6020B	WP
Beryllium, Total	ND		mg/l	0.00500	0.00107	10	12/30/21 12:20	01/04/22 17:06	EPA 3005A	1,6020B	WP
Cadmium, Total	ND		mg/l	0.00200	0.00059	10	12/30/21 12:20	01/04/22 17:06	EPA 3005A	1,6020B	WP
Calcium, Total	96.8		mg/l	1.00	0.394	10	12/30/21 12:20	01/04/22 17:06	EPA 3005A	1,6020B	WP
Chromium, Total	0.00317	J	mg/l	0.01000	0.00178	10	12/30/21 12:20	01/04/22 17:06	EPA 3005A	1,6020B	WP
Cobalt, Total	ND		mg/l	0.00500	0.00163	10	12/30/21 12:20	01/04/22 17:06	EPA 3005A	1,6020B	WP
Copper, Total	ND		mg/l	0.01000	0.00384	10	12/30/21 12:20	01/04/22 17:06	EPA 3005A	1,6020B	WP
Iron, Total	1.39		mg/l	0.500	0.191	10	12/30/21 12:20	01/04/22 17:06	EPA 3005A	1,6020B	WP
Lead, Total	ND		mg/l	0.01000	0.00343	10	12/30/21 12:20	01/04/22 17:06	EPA 3005A	1,6020B	WP
Magnesium, Total	5.19		mg/l	0.700	0.242	10	12/30/21 12:20	01/04/22 17:06	EPA 3005A	1,6020B	WP
Manganese, Total	0.4962		mg/l	0.01000	0.00440	10	12/30/21 12:20	01/04/22 17:06	EPA 3005A	1,6020B	WP
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/30/21 12:23	01/03/22 10:12	EPA 7470A	1,7470A	AC
Nickel, Total	ND		mg/l	0.02000	0.00556	10	12/30/21 12:20	01/04/22 17:06	EPA 3005A	1,6020B	WP
Potassium, Total	3.86		mg/l	1.00	0.309	10	12/30/21 12:20	01/04/22 17:06	EPA 3005A	1,6020B	WP
Selenium, Total	ND		mg/l	0.0500	0.0173	10	12/30/21 12:20	01/04/22 17:06	EPA 3005A	1,6020B	WP
Silver, Total	ND		mg/l	0.00400	0.00163	10	12/30/21 12:20	01/04/22 17:06	EPA 3005A	1,6020B	WP
Sodium, Total	16.2		mg/l	1.00	0.293	10	12/30/21 12:20	01/04/22 17:06	EPA 3005A	1,6020B	WP
Thallium, Total	ND		mg/l	0.01000	0.00143	10	12/30/21 12:20	01/04/22 17:06	EPA 3005A	1,6020B	WP
Vanadium, Total	ND		mg/l	0.05000	0.01570	10	12/30/21 12:20	01/04/22 17:06	EPA 3005A	1,6020B	WP
Zinc, Total	ND		mg/l	0.1000	0.03410	10	12/30/21 12:20	01/04/22 17:06	EPA 3005A	1,6020B	WP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		01/04/22 17:06	NA	107,-	

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-04
Client ID: SB17
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 14:30
Date Received: 12/16/21
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
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.100	0.0327	10	12/29/21 17:14	01/04/22 15:58	EPA 3005A	1,6020B	WP
Antimony, Dissolved	ND		mg/l	0.04000	0.00429	10	12/29/21 17:14	01/04/22 15:58	EPA 3005A	1,6020B	WP
Arsenic, Dissolved	0.00174	J	mg/l	0.00500	0.00165	10	12/29/21 17:14	01/04/22 15:58	EPA 3005A	1,6020B	WP
Barium, Dissolved	0.01031		mg/l	0.00500	0.00173	10	12/29/21 17:14	01/04/22 15:58	EPA 3005A	1,6020B	WP
Beryllium, Dissolved	ND		mg/l	0.00500	0.00107	10	12/29/21 17:14	01/04/22 15:58	EPA 3005A	1,6020B	WP
Cadmium, Dissolved	ND		mg/l	0.00200	0.00059	10	12/29/21 17:14	01/04/22 15:58	EPA 3005A	1,6020B	WP
Calcium, Dissolved	94.1		mg/l	1.00	0.394	10	12/29/21 17:14	01/04/22 15:58	EPA 3005A	1,6020B	WP
Chromium, Dissolved	ND		mg/l	0.01000	0.00178	10	12/29/21 17:14	01/04/22 15:58	EPA 3005A	1,6020B	WP
Cobalt, Dissolved	ND		mg/l	0.00500	0.00163	10	12/29/21 17:14	01/04/22 15:58	EPA 3005A	1,6020B	WP
Copper, Dissolved	ND		mg/l	0.01000	0.00384	10	12/29/21 17:14	01/04/22 15:58	EPA 3005A	1,6020B	WP
Iron, Dissolved	ND		mg/l	0.500	0.191	10	12/29/21 17:14	01/04/22 15:58	EPA 3005A	1,6020B	WP
Lead, Dissolved	ND		mg/l	0.01000	0.00343	10	12/29/21 17:14	01/04/22 15:58	EPA 3005A	1,6020B	WP
Magnesium, Dissolved	5.03		mg/l	0.700	0.242	10	12/29/21 17:14	01/04/22 15:58	EPA 3005A	1,6020B	WP
Manganese, Dissolved	0.4992		mg/l	0.01000	0.00440	10	12/29/21 17:14	01/04/22 15:58	EPA 3005A	1,6020B	WP
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/29/21 17:16	12/30/21 17:40	EPA 7470A	1,7470A	NB
Nickel, Dissolved	ND		mg/l	0.02000	0.00556	10	12/29/21 17:14	01/04/22 15:58	EPA 3005A	1,6020B	WP
Potassium, Dissolved	3.68		mg/l	1.00	0.309	10	12/29/21 17:14	01/04/22 15:58	EPA 3005A	1,6020B	WP
Selenium, Dissolved	ND		mg/l	0.0500	0.0173	10	12/29/21 17:14	01/04/22 15:58	EPA 3005A	1,6020B	WP
Silver, Dissolved	ND		mg/l	0.00400	0.00163	10	12/29/21 17:14	01/04/22 15:58	EPA 3005A	1,6020B	WP
Sodium, Dissolved	16.3		mg/l	1.00	0.293	10	12/29/21 17:14	01/04/22 15:58	EPA 3005A	1,6020B	WP
Thallium, Dissolved	ND		mg/l	0.01000	0.00143	10	12/29/21 17:14	01/04/22 15:58	EPA 3005A	1,6020B	WP
Vanadium, Dissolved	ND		mg/l	0.05000	0.01570	10	12/29/21 17:14	01/04/22 15:58	EPA 3005A	1,6020B	WP
Zinc, Dissolved	ND		mg/l	0.1000	0.03410	10	12/29/21 17:14	01/04/22 15:58	EPA 3005A	1,6020B	WP

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-05
Client ID: GW FIELD BLANK
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 11:45
Date Received: 12/16/21
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	ND		mg/l	0.0100	0.00327	1	12/30/21 12:20	01/04/22 16:38	EPA 3005A	1,6020B	WP
Antimony, Total	ND		mg/l	0.00400	0.00042	1	12/30/21 12:20	01/04/22 16:38	EPA 3005A	1,6020B	WP
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	12/30/21 12:20	01/04/22 16:38	EPA 3005A	1,6020B	WP
Barium, Total	0.00020	J	mg/l	0.00050	0.00017	1	12/30/21 12:20	01/04/22 16:38	EPA 3005A	1,6020B	WP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/30/21 12:20	01/04/22 16:38	EPA 3005A	1,6020B	WP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	12/30/21 12:20	01/04/22 16:38	EPA 3005A	1,6020B	WP
Calcium, Total	ND		mg/l	0.100	0.0394	1	12/30/21 12:20	01/04/22 16:38	EPA 3005A	1,6020B	WP
Chromium, Total	ND		mg/l	0.00100	0.00017	1	12/30/21 12:20	01/04/22 16:38	EPA 3005A	1,6020B	WP
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	12/30/21 12:20	01/04/22 16:38	EPA 3005A	1,6020B	WP
Copper, Total	ND		mg/l	0.00100	0.00038	1	12/30/21 12:20	01/04/22 16:38	EPA 3005A	1,6020B	WP
Iron, Total	ND		mg/l	0.0500	0.0191	1	12/30/21 12:20	01/04/22 16:38	EPA 3005A	1,6020B	WP
Lead, Total	ND		mg/l	0.00100	0.00034	1	12/30/21 12:20	01/04/22 16:38	EPA 3005A	1,6020B	WP
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	12/30/21 12:20	01/04/22 16:38	EPA 3005A	1,6020B	WP
Manganese, Total	ND		mg/l	0.00100	0.00044	1	12/30/21 12:20	01/04/22 16:38	EPA 3005A	1,6020B	WP
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/30/21 12:23	01/03/22 10:16	EPA 7470A	1,7470A	AC
Nickel, Total	ND		mg/l	0.00200	0.00055	1	12/30/21 12:20	01/04/22 16:38	EPA 3005A	1,6020B	WP
Potassium, Total	ND		mg/l	0.100	0.0309	1	12/30/21 12:20	01/04/22 16:38	EPA 3005A	1,6020B	WP
Selenium, Total	ND		mg/l	0.00500	0.00173	1	12/30/21 12:20	01/04/22 16:38	EPA 3005A	1,6020B	WP
Silver, Total	ND		mg/l	0.00040	0.00016	1	12/30/21 12:20	01/04/22 16:38	EPA 3005A	1,6020B	WP
Sodium, Total	ND		mg/l	0.100	0.0293	1	12/30/21 12:20	01/04/22 16:38	EPA 3005A	1,6020B	WP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	12/30/21 12:20	01/04/22 16:38	EPA 3005A	1,6020B	WP
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	12/30/21 12:20	01/04/22 16:38	EPA 3005A	1,6020B	WP
Zinc, Total	ND		mg/l	0.01000	0.00341	1	12/30/21 12:20	01/04/22 16:38	EPA 3005A	1,6020B	WP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		01/04/22 16:38	NA	107,-	

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-05
Client ID: GW FIELD BLANK
Sample Location: MANHATTAN, NY
Date Collected: 12/16/21 11:45
Date Received: 12/16/21
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
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00364	J	mg/l	0.0100	0.00327	1	12/29/21 17:14	01/04/22 10:10	EPA 3005A	1,6020B	SV
Antimony, Dissolved	0.00050	J	mg/l	0.00400	0.00042	1	12/29/21 17:14	01/04/22 10:10	EPA 3005A	1,6020B	SV
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	12/29/21 17:14	01/04/22 10:10	EPA 3005A	1,6020B	SV
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	12/29/21 17:14	01/04/22 10:10	EPA 3005A	1,6020B	SV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	12/29/21 17:14	01/04/22 10:10	EPA 3005A	1,6020B	SV
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	12/29/21 17:14	01/04/22 10:10	EPA 3005A	1,6020B	SV
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	12/29/21 17:14	01/04/22 10:10	EPA 3005A	1,6020B	SV
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	12/29/21 17:14	01/04/22 10:10	EPA 3005A	1,6020B	SV
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	12/29/21 17:14	01/04/22 10:10	EPA 3005A	1,6020B	SV
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	12/29/21 17:14	01/04/22 10:10	EPA 3005A	1,6020B	SV
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	12/29/21 17:14	01/04/22 10:10	EPA 3005A	1,6020B	SV
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	12/29/21 17:14	01/04/22 10:10	EPA 3005A	1,6020B	SV
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	12/29/21 17:14	01/04/22 10:10	EPA 3005A	1,6020B	SV
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	12/29/21 17:14	01/04/22 10:10	EPA 3005A	1,6020B	SV
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/29/21 17:16	12/30/21 17:43	EPA 7470A	1,7470A	NB
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	12/29/21 17:14	01/04/22 10:10	EPA 3005A	1,6020B	SV
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	12/29/21 17:14	01/04/22 10:10	EPA 3005A	1,6020B	SV
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	12/29/21 17:14	01/04/22 10:10	EPA 3005A	1,6020B	SV
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	12/29/21 17:14	01/04/22 10:10	EPA 3005A	1,6020B	SV
Sodium, Dissolved	0.0726	J	mg/l	0.100	0.0293	1	12/29/21 17:14	01/04/22 10:10	EPA 3005A	1,6020B	SV
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	12/29/21 17:14	01/04/22 10:10	EPA 3005A	1,6020B	SV
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	12/29/21 17:14	01/04/22 10:10	EPA 3005A	1,6020B	SV
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	12/29/21 17:14	01/04/22 10:10	EPA 3005A	1,6020B	SV

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1588464-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	12/30/21 12:20	01/04/22 11:10	1,6020B	SV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	12/30/21 12:20	01/04/22 11:10	1,6020B	SV
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	12/30/21 12:20	01/04/22 11:10	1,6020B	SV
Barium, Total	ND		mg/l	0.00050	0.00017	1	12/30/21 12:20	01/04/22 11:10	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/30/21 12:20	01/04/22 11:10	1,6020B	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	12/30/21 12:20	01/04/22 11:10	1,6020B	SV
Calcium, Total	ND		mg/l	0.100	0.0394	1	12/30/21 12:20	01/04/22 11:10	1,6020B	SV
Chromium, Total	ND		mg/l	0.00100	0.00017	1	12/30/21 12:20	01/04/22 11:10	1,6020B	SV
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	12/30/21 12:20	01/04/22 11:10	1,6020B	SV
Copper, Total	ND		mg/l	0.00100	0.00038	1	12/30/21 12:20	01/04/22 11:10	1,6020B	SV
Iron, Total	ND		mg/l	0.0500	0.0191	1	12/30/21 12:20	01/04/22 11:10	1,6020B	SV
Lead, Total	ND		mg/l	0.00100	0.00034	1	12/30/21 12:20	01/04/22 11:10	1,6020B	SV
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	12/30/21 12:20	01/04/22 11:10	1,6020B	SV
Manganese, Total	ND		mg/l	0.00100	0.00044	1	12/30/21 12:20	01/04/22 11:10	1,6020B	SV
Nickel, Total	ND		mg/l	0.00200	0.00055	1	12/30/21 12:20	01/04/22 11:10	1,6020B	SV
Potassium, Total	ND		mg/l	0.100	0.0309	1	12/30/21 12:20	01/04/22 11:10	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	12/30/21 12:20	01/04/22 11:10	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	12/30/21 12:20	01/04/22 11:10	1,6020B	SV
Sodium, Total	ND		mg/l	0.100	0.0293	1	12/30/21 12:20	01/04/22 11:10	1,6020B	SV
Thallium, Total	0.00016	J	mg/l	0.00100	0.00014	1	12/30/21 12:20	01/04/22 11:10	1,6020B	SV
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	12/30/21 12:20	01/04/22 11:10	1,6020B	SV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	12/30/21 12:20	01/04/22 11:10	1,6020B	SV

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): 01-05 Batch: WG1588466-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/30/21 12:23	01/03/22 09:27	1,7470A	AC

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1588469-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	12/29/21 17:14	01/04/22 10:05	1,6020B	SV
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	12/29/21 17:14	01/04/22 10:05	1,6020B	SV
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	12/29/21 17:14	01/04/22 10:05	1,6020B	SV
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	12/29/21 17:14	01/04/22 10:05	1,6020B	SV
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	12/29/21 17:14	01/04/22 10:05	1,6020B	SV
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	12/29/21 17:14	01/04/22 10:05	1,6020B	SV
Calcium, Dissolved	0.0405	J	mg/l	0.100	0.0394	1	12/29/21 17:14	01/04/22 10:05	1,6020B	SV
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	12/29/21 17:14	01/04/22 10:05	1,6020B	SV
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	12/29/21 17:14	01/04/22 10:05	1,6020B	SV
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	12/29/21 17:14	01/04/22 10:05	1,6020B	SV
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	12/29/21 17:14	01/04/22 10:05	1,6020B	SV
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	12/29/21 17:14	01/04/22 10:05	1,6020B	SV
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	12/29/21 17:14	01/04/22 10:05	1,6020B	SV
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	12/29/21 17:14	01/04/22 10:05	1,6020B	SV
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	12/29/21 17:14	01/04/22 10:05	1,6020B	SV
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	12/29/21 17:14	01/04/22 10:05	1,6020B	SV
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	12/29/21 17:14	01/04/22 10:05	1,6020B	SV
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	12/29/21 17:14	01/04/22 10:05	1,6020B	SV
Sodium, Dissolved	0.0622	J	mg/l	0.100	0.0293	1	12/29/21 17:14	01/04/22 10:05	1,6020B	SV
Thallium, Dissolved	0.00016	J	mg/l	0.00100	0.00014	1	12/29/21 17:14	01/04/22 10:05	1,6020B	SV
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	12/29/21 17:14	01/04/22 10:05	1,6020B	SV
Zinc, Dissolved	0.00855	J	mg/l	0.01000	0.00341	1	12/29/21 17:14	01/04/22 10:05	1,6020B	SV

Prep Information

Digestion Method: EPA 3005A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1588470-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/29/21 17:16	12/30/21 17:10	1,7470A	NB

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169537

Report Date: 01/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1588464-2								
Aluminum, Total	102		-		80-120	-		
Antimony, Total	95		-		80-120	-		
Arsenic, Total	106		-		80-120	-		
Barium, Total	107		-		80-120	-		
Beryllium, Total	108		-		80-120	-		
Cadmium, Total	111		-		80-120	-		
Calcium, Total	97		-		80-120	-		
Chromium, Total	102		-		80-120	-		
Cobalt, Total	101		-		80-120	-		
Copper, Total	104		-		80-120	-		
Iron, Total	108		-		80-120	-		
Lead, Total	104		-		80-120	-		
Magnesium, Total	106		-		80-120	-		
Manganese, Total	100		-		80-120	-		
Nickel, Total	102		-		80-120	-		
Potassium, Total	102		-		80-120	-		
Selenium, Total	102		-		80-120	-		
Silver, Total	110		-		80-120	-		
Sodium, Total	105		-		80-120	-		
Thallium, Total	100		-		80-120	-		
Vanadium, Total	104		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169537

Report Date: 01/04/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1588464-2					
Zinc, Total	102	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1588466-2					
Mercury, Total	96	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169537

Report Date: 01/04/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1588469-2					
Aluminum, Dissolved	107	-	80-120	-	
Antimony, Dissolved	96	-	80-120	-	
Arsenic, Dissolved	106	-	80-120	-	
Barium, Dissolved	108	-	80-120	-	
Beryllium, Dissolved	108	-	80-120	-	
Cadmium, Dissolved	110	-	80-120	-	
Calcium, Dissolved	92	-	80-120	-	
Chromium, Dissolved	103	-	80-120	-	
Cobalt, Dissolved	102	-	80-120	-	
Copper, Dissolved	106	-	80-120	-	
Iron, Dissolved	107	-	80-120	-	
Lead, Dissolved	105	-	80-120	-	
Magnesium, Dissolved	109	-	80-120	-	
Manganese, Dissolved	101	-	80-120	-	
Nickel, Dissolved	103	-	80-120	-	
Potassium, Dissolved	105	-	80-120	-	
Selenium, Dissolved	103	-	80-120	-	
Silver, Dissolved	109	-	80-120	-	
Sodium, Dissolved	108	-	80-120	-	
Thallium, Dissolved	100	-	80-120	-	
Vanadium, Dissolved	103	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169537

Report Date: 01/04/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1588469-2					
Zinc, Dissolved	103	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1588470-2					
Mercury, Dissolved	102	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1588464-3 QC Sample: L2169234-01 Client ID: MS Sample												
Aluminum, Total	0.192	2	2.29	105		-	-		75-125	-		20
Antimony, Total	ND	0.5	0.4348	87		-	-		75-125	-		20
Arsenic, Total	ND	0.12	0.1242	104		-	-		75-125	-		20
Barium, Total	0.00289	2	2.045	102		-	-		75-125	-		20
Beryllium, Total	ND	0.05	0.05405	108		-	-		75-125	-		20
Cadmium, Total	ND	0.053	0.05697	107		-	-		75-125	-		20
Calcium, Total	2.96	10	12.3	93		-	-		75-125	-		20
Chromium, Total	0.00083J	0.2	0.2049	102		-	-		75-125	-		20
Cobalt, Total	ND	0.5	0.4913	98		-	-		75-125	-		20
Copper, Total	0.00041J	0.25	0.2546	102		-	-		75-125	-		20
Iron, Total	0.231	1	1.59	**136**	Q	-	-		75-125	-		20
Lead, Total	ND	0.53	0.5334	101		-	-		75-125	-		20
Magnesium, Total	0.640	10	11.3	107		-	-		75-125	-		20
Manganese, Total	0.00800	0.5	0.5250	103		-	-		75-125	-		20
Nickel, Total	ND	0.5	0.5052	101		-	-		75-125	-		20
Potassium, Total	0.334	10	10.4	101		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.123	102		-	-		75-125	-		20
Silver, Total	ND	0.05	0.05412	108		-	-		75-125	-		20
Sodium, Total	2.02	10	12.8	108		-	-		75-125	-		20
Thallium, Total	0.00023J	0.12	0.1240	103		-	-		75-125	-		20
Vanadium, Total	ND	0.5	0.5054	101		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

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): 01-05 QC Batch ID: WG1588464-3 QC Sample: L2169234-01 Client ID: MS Sample									
Zinc, Total	ND	0.5	0.5168	103	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1588466-3 QC Sample: L2169234-02 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00501	100	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1588469-3 QC Sample: L2169537-01 Client ID: SB26										
Aluminum, Dissolved	ND	2	2.36	118		-	-	75-125	-	20
Antimony, Dissolved	ND	0.5	0.5660	113		-	-	75-125	-	20
Arsenic, Dissolved	ND	0.12	0.1292	108		-	-	75-125	-	20
Barium, Dissolved	0.04342	2	2.291	112		-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.04922	98		-	-	75-125	-	20
Cadmium, Dissolved	ND	0.053	0.05393	102		-	-	75-125	-	20
Calcium, Dissolved	232.	10	200	**0**	Q	-	-	75-125	-	20
Chromium, Dissolved	ND	0.2	0.1800	90		-	-	75-125	-	20
Cobalt, Dissolved	ND	0.5	0.5214	104		-	-	75-125	-	20
Copper, Dissolved	ND	0.25	0.2633	105		-	-	75-125	-	20
Iron, Dissolved	ND	1	1.05	105		-	-	75-125	-	20
Lead, Dissolved	ND	0.53	0.6140	116		-	-	75-125	-	20
Magnesium, Dissolved	588.	10	538	**0**	Q	-	-	75-125	-	20
Manganese, Dissolved	0.06062	0.5	0.4946	87		-	-	75-125	-	20
Nickel, Dissolved	0.01440J	0.5	0.5211	104		-	-	75-125	-	20
Potassium, Dissolved	183.	10	170	**0**	Q	-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.111	92		-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.05307	106		-	-	75-125	-	20
Sodium, Dissolved	4810	10	4380	**0**	Q	-	-	75-125	-	20
Thallium, Dissolved	ND	0.12	0.1269	106		-	-	75-125	-	20
Vanadium, Dissolved	ND	0.5	0.4648	93		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1588469-3 QC Sample: L2169537-01 Client ID: SB26									
Zinc, Dissolved	ND	0.5	0.4691	94	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1588470-3 QC Sample: L2169537-02 Client ID: SB26 DUP									
Mercury, Dissolved	ND	0.005	0.00470	94	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1588464-4 QC Sample: L2169234-01 Client ID: DUP Sample						
Aluminum, Total	0.192	0.200	mg/l	4		20
Antimony, Total	ND	0.00050J	mg/l	NC		20
Arsenic, Total	ND	ND	mg/l	NC		20
Barium, Total	0.00289	0.00290	mg/l	0		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Calcium, Total	2.96	3.03	mg/l	2		20
Chromium, Total	0.00083J	0.00089J	mg/l	NC		20
Cobalt, Total	ND	ND	mg/l	NC		20
Copper, Total	0.00041J	0.00045J	mg/l	NC		20
Iron, Total	0.231	0.239	mg/l	3		20
Lead, Total	ND	ND	mg/l	NC		20
Magnesium, Total	0.640	0.642	mg/l	0		20
Manganese, Total	0.00800	0.00808	mg/l	1		20
Nickel, Total	ND	ND	mg/l	NC		20
Potassium, Total	0.334	0.338	mg/l	1		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Sodium, Total	2.02	2.03	mg/l	0		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1588464-4 QC Sample: L2169234-01 Client ID: DUP Sample					
Thallium, Total	0.00023J	0.00070J	mg/l	NC	20
Vanadium, Total	ND	ND	mg/l	NC	20
Zinc, Total	ND	ND	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1588466-4 QC Sample: L2169234-02 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1588469-4 QC Sample: L2169537-01 Client ID: SB26					
Aluminum, Dissolved	ND	ND	mg/l	NC	20
Antimony, Dissolved	ND	ND	mg/l	NC	20
Arsenic, Dissolved	ND	ND	mg/l	NC	20
Barium, Dissolved	0.04342	0.04188	mg/l	4	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Calcium, Dissolved	232.	217	mg/l	7	20
Chromium, Dissolved	ND	ND	mg/l	NC	20
Cobalt, Dissolved	ND	ND	mg/l	NC	20
Copper, Dissolved	ND	ND	mg/l	NC	20
Iron, Dissolved	ND	ND	mg/l	NC	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Magnesium, Dissolved	588.	561	mg/l	5	20
Manganese, Dissolved	0.06062	0.05490	mg/l	10	20
Nickel, Dissolved	0.01440J	0.01362J	mg/l	NC	20
Potassium, Dissolved	183.	176	mg/l	4	20
Selenium, Dissolved	ND	ND	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Thallium, Dissolved	ND	ND	mg/l	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1588469-4 QC Sample: L2169537-01 Client ID: SB26					
Vanadium, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	ND	ND	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1588469-4 QC Sample: L2169537-01 Client ID: SB26					
Sodium, Dissolved	4810	4390	mg/l	9	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1588470-4 QC Sample: L2169537-02 Client ID: SB26 DUP					
Mercury, Dissolved	ND	ND	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-01
Client ID: SB26
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 10:30
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	12/26/21 09:45	12/27/21 11:19	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/17/21 09:55	12/17/21 10:18	1,7196A	KP

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-02
Client ID: SB26 DUP
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 11:00
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	12/26/21 09:45	12/27/21 11:22	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/17/21 09:55	12/17/21 10:19	1,7196A	KP

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-03
Client ID: SB29
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 13:00
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	12/26/21 09:45	12/27/21 11:23	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/17/21 09:55	12/17/21 10:21	1,7196A	KP

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-04
Client ID: SB17
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 14:30
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	12/26/21 09:45	12/27/21 11:24	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/17/21 09:55	12/17/21 10:21	1,7196A	KP

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

SAMPLE RESULTS

Lab ID: L2169537-05
Client ID: GW FIELD BLANK
Sample Location: MANHATTAN, NY

Date Collected: 12/16/21 11:45
Date Received: 12/16/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	12/26/21 09:45	12/27/21 11:25	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/17/21 09:55	12/17/21 10:22	1,7196A	KP

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169537
Report Date: 01/04/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1584614-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/17/21 09:55	12/17/21 10:18	1,7196A	KP
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1587560-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	12/26/21 09:45	12/27/21 11:00	1,9010C/9012B	JO

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169537

Report Date: 01/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1584614-2								
Chromium, Hexavalent	100		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1587560-2 WG1587560-3								
Cyanide, Total	95		110		85-115	15		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1584614-4 QC Sample: L2169537-02 Client ID: SB26 DUP												
Chromium, Hexavalent	ND	0.1	0.107	107		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1587560-4 WG1587560-5 QC Sample: L2169537-01 Client ID: SB26												
Cyanide, Total	ND	0.2	0.204	102		0.211	106		80-120	3		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1584614-3 QC Sample: L2169537-01 Client ID: SB26						
Chromium, Hexavalent	ND	ND	mg/l	NC		20

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

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(*)
L2169537-01A	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L2169537-01B	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L2169537-01C	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L2169537-01D	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8082-LVI(365)
L2169537-01E	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8082-LVI(365)
L2169537-01F	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8081(7)
L2169537-01G	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8081(7)
L2169537-01H	Plastic 250ml unpreserved	B	7	7	2.8	Y	Absent		HEXCR-7196(1)
L2169537-01I	Plastic 250ml unpreserved	B	7	7	2.8	Y	Absent		-
L2169537-01J	Plastic 250ml HNO3 preserved	B	<2	<2	2.8	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L2169537-01K	Plastic 250ml NaOH preserved	B	>12	>12	2.8	Y	Absent		TCN-9010(14)
L2169537-01L	Amber 250ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2169537-01M	Amber 250ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2169537-01N	Amber 1000ml unpreserved	B	7	7	2.8	Y	Absent		HERB-APA(7)
L2169537-01O	Amber 1000ml unpreserved	B	7	7	2.8	Y	Absent		HERB-APA(7)

*Values in parentheses indicate holding time in days

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2169537-01X	Plastic 120ml HNO3 preserved Filtrates	B	NA		2.8	Y	Absent		CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2169537-02A	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L2169537-02B	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L2169537-02C	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L2169537-02D	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8082-LVI(365)
L2169537-02E	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8082-LVI(365)
L2169537-02F	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8081(7)
L2169537-02G	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8081(7)
L2169537-02H	Plastic 250ml unpreserved	B	7	7	2.8	Y	Absent		HEXCR-7196(1)
L2169537-02I	Plastic 250ml unpreserved	B	7	7	2.8	Y	Absent		-
L2169537-02J	Plastic 250ml HNO3 preserved	B	<2	<2	2.8	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L2169537-02K	Plastic 250ml NaOH preserved	B	>12	>12	2.8	Y	Absent		TCN-9010(14)
L2169537-02L	Amber 250ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2169537-02M	Amber 250ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2169537-02N	Amber 1000ml unpreserved	B	7	7	2.8	Y	Absent		HERB-APA(7)
L2169537-02O	Amber 1000ml unpreserved	B	7	7	2.8	Y	Absent		HERB-APA(7)

*Values in parentheses indicate holding time in days

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2169537-02X	Plastic 120ml HNO3 preserved Filtrates	B	NA		2.8	Y	Absent		CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2169537-03A	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2169537-03B	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2169537-03C	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2169537-03D	Amber 120ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8082-LVI(365)
L2169537-03E	Amber 120ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8082-LVI(365)
L2169537-03F	Amber 120ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8081(7)
L2169537-03G	Amber 120ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8081(7)
L2169537-03H	Plastic 250ml unpreserved	A	7	7	2.9	Y	Absent		HEXCR-7196(1)
L2169537-03I	Plastic 250ml unpreserved	A	7	7	2.9	Y	Absent		-
L2169537-03J	Plastic 250ml HNO3 preserved	A	<2	<2	2.9	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L2169537-03K	Plastic 250ml NaOH preserved	A	>12	>12	2.9	Y	Absent		TCN-9010(14)
L2169537-03L	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2169537-03M	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2169537-03N	Amber 1000ml unpreserved	A	7	7	2.9	Y	Absent		HERB-APA(7)
L2169537-03O	Amber 1000ml unpreserved	A	7	7	2.9	Y	Absent		HERB-APA(7)

*Values in parentheses indicate holding time in days

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2169537-03X	Plastic 120ml HNO3 preserved Filtrates	A	NA		2.9	Y	Absent		CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2169537-04A	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L2169537-04B	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L2169537-04C	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L2169537-04D	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8082-LVI(365)
L2169537-04E	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8082-LVI(365)
L2169537-04F	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8081(7)
L2169537-04G	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8081(7)
L2169537-04H	Plastic 250ml unpreserved	B	7	7	2.8	Y	Absent		HEXCR-7196(1)
L2169537-04I	Plastic 250ml unpreserved	B	7	7	2.8	Y	Absent		-
L2169537-04J	Plastic 250ml HNO3 preserved	B	<2	<2	2.8	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L2169537-04K	Plastic 250ml NaOH preserved	B	>12	>12	2.8	Y	Absent		TCN-9010(14)
L2169537-04L	Amber 250ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2169537-04M	Amber 250ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2169537-04N	Amber 1000ml unpreserved	A	7	7	2.9	Y	Absent		HERB-APA(7)
L2169537-04O	Amber 1000ml unpreserved	A	7	7	2.9	Y	Absent		HERB-APA(7)

*Values in parentheses indicate holding time in days

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2169537-04X	Plastic 120ml HNO3 preserved Filtrates	B	NA		2.8	Y	Absent		CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2169537-05A	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2169537-05B	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2169537-05C	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2169537-05D	Amber 120ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8082-LVI(365)
L2169537-05E	Amber 120ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8082-LVI(365)
L2169537-05F	Amber 120ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8081(7)
L2169537-05G	Amber 120ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8081(7)
L2169537-05H	Plastic 250ml unpreserved	A	7	7	2.9	Y	Absent		HEXCR-7196(1)
L2169537-05I	Plastic 250ml unpreserved	A	7	7	2.9	Y	Absent		-
L2169537-05J	Plastic 250ml HNO3 preserved	A	<2	<2	2.9	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L2169537-05K	Plastic 250ml NaOH preserved	A	>12	>12	2.9	Y	Absent		TCN-9010(14)
L2169537-05L	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2169537-05M	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2169537-05N	Amber 1000ml unpreserved	A	7	7	2.9	Y	Absent		HERB-APA(7)
L2169537-05O	Amber 1000ml unpreserved	A	7	7	2.9	Y	Absent		HERB-APA(7)

*Values in parentheses indicate holding time in days

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169537
Report Date: 01/04/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2169537-05X	Plastic 120ml HNO3 preserved Filtrates	A	NA		2.9	Y	Absent		CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)

*Values in parentheses indicate holding time in days

Project Name:	BATTERY PARK	**Lab Number:**	L2169537
Project Number:	20-1152	**Report Date:**	01/04/22

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

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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. 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.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	BATTERY PARK	**Lab Number:**	L2169537
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Data Qualifiers

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:	BATTERY PARK	**Lab Number:**	L2169537
Project Number:	20-1152	**Report Date:**	01/04/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

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.

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

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page of

Date Rec'd in Lab: 12/16/21

ALPHA Job #: L2169537

Client Information

Client: Matrix
Address: 333 W 39th St Manhattan NY
Phone:
Fax:
Email: BCrespi@MAWE.com

Project Information

Project Name: Battery Park
Project Location: Manhattan NY
Project # 20-152
(Use Project name as Project #) ☐
Project Manager: Brian Crespi
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

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

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:

Lab filtered / Total & dissolved Metals

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	TCL VOC	TCL SVOC	TCL PCB	TCL Pesticide	TCL Herbicide	TAL Metals (Cr6)			Total Bottle	Sample Specific Comments
69537-01	SB26	12-16-21	1030	GW	P.Y	/	/	/	/	/	/				
02	SB26 DUP		1100			/	/	/	/	/	/				
03	SB29		1300			/	/	/	/	/	/				
04	SB17		1430			/	/	/	/	/	/				
05	GW Field Blank		1145			/	/	/	/	/	J				

Container Type
Preservative

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
	12-16-21 1715	(AAL)	12-16-21 1715
(AAL)	12-16-21 1900	AAL	12/16 1930
AAL	12/16	AAL 12/16/21	21:30
AAL 12/16/21	23:45		12/16/21 2345

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)

ANALYTICAL REPORT

Lab Number:	L2169771
Client:	Matrix New World Engineering, Inc. 333 West 39th Street, Second Floor New York City, NY 10018
ATTN:	Brian Crespi
Phone:	(212) 324-4251
Project Name:	BATTERY PARK
Project Number:	20-1152
Report Date:	01/06/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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

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

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2169771-01	SB-20	WATER	MANHATTAN, NY	12/17/21 09:45	12/17/21
L2169771-02	SB-21	WATER	MANHATTAN, NY	12/17/21 11:30	12/17/21
L2169771-03	SB-13	WATER	MANHATTAN, NY	12/17/21 14:00	12/17/21
L2169771-04	TRIP BLANK	WATER	MANHATTAN, NY	11/19/21 00:00	12/17/21

Project Name:	BATTERY PARK	**Lab Number:**	L2169771
Project Number:	20-1152	**Report Date:**	01/06/22

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:	BATTERY PARK	**Lab Number:**	L2169771
Project Number:	20-1152	**Report Date:**	01/06/22

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

L2169771-04: A sample identified as "TRIP BLANK" was received, but not listed on the Chain of Custody. At the client's request, this sample was analyzed.

Volatile Organics

L2169771-04: The sample was analyzed with the method required holding time exceeded.

Semivolatile Organics

The WG1586830-2 LCS recovery, associated with L2169771-01 through -03, is below the acceptance criteria for benzoic acid (9%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Pesticides

L2169771-01: The surrogate recoveries were outside the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (27%,27%) and decachlorobiphenyl (26%,22%); however, the criteria were achieved upon re-extraction outside of holding time. The results of both extractions are reported.

L2169771-02: The surrogate recoveries were outside the acceptance criteria for decachlorobiphenyl (27%,23%) and 2,4,5,6-tetrachloro-m-xylene (27%) ; however, the criteria were achieved upon re-extraction outside of holding time. The results of both extractions are reported.

L2169771-03: The surrogate recoveries were outside the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (29%,27%) and decachlorobiphenyl (26%); however, the criteria were achieved upon re-extraction outside of holding time. The results of both extractions are reported.

WG1587098-1: The surrogate recoveries were outside the acceptance criteria for 2,4,5,6-tetrachloro-m-

Project Name: BATTERY PARK **Lab Number:** L2169771
Project Number: 20-1152 **Report Date:** 01/06/22

Case Narrative (continued)

xylene (29%,26%); however, the criteria were achieved upon re-extraction outside of holding time. The results of both extractions are reported.
The WG1587098-2/-3 LCS/LCSD recoveries, associated with L2169771-01, -02, and -03, were outside the acceptance criteria for for delta-bhc (17%/17%), lindane (26%/26%), alpha-bhc (24%/24%), Beta-BHC (LCSD at 29%), heptachlor (28%/28%), aldrin (25%/28%), Heptachlor epoxide (25%/26%), endrin (27%/28%), Endrin aldehyde (23%/26%), Endrin ketone (26%/29%), dieldrin (LCS at 28%), 4,4'-dde (27%/28%), 4,4'-ddd (LCS at 29%), 4,4'-ddt (26%/28%), endosulfan I (25%/27%), endosulfan II (LCS at 29%), endosulfan sulfate (25%/29%), Methoxychlor (LCS at 27%), cis-chlordane (23%/24%), and trans-Chlordane (28%/29%); however, the criteria were achieved upon re-extraction outside of holding time. The results of both extractions are reported
WG1587098-2: The surrogate recoveries were outside the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (28%,24%) and decachlorobiphenyl (29%); however, the criteria were achieved upon re-extraction outside of holding time. The results of both extractions are reported.
WG1587098-3: The surrogate recoveries were outside the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (27%,26%); however, the criteria were achieved upon re-extraction outside of holding time. The results of both extractions are reported.

Total Metals
L2169771-03: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the high concentrations of target and non-target elements.

Dissolved Metals
L2169771-03: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the high concentrations of target and non-target elements.

Cyanide, Total
The WG1588779-4 MS recovery, performed on L2169771-02, is outside the acceptance criteria for cyanide,

Project Name:	BATTERY PARK	**Lab Number:**	L2169771
Project Number:	20-1152	**Report Date:**	01/06/22

Case Narrative (continued)

total (78%); however, the associated LCS recovery is within criteria. No further action was taken.

The WG1588779-4/-5 MS/MSD RPD, performed on L2169771-02, is above the acceptance criteria for cyanide, total (21%).

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

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 01/06/22

ORGANICS

VOLATILES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-01
Client ID: SB-20
Sample Location: MANHATTAN, NY
Date Collected: 12/17/21 09:45
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/29/21 12:18
Analyst: PD

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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	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

Project Name: BATTERY PARK **Lab Number:** L2169771

Project Number: 20-1152 **Report Date:** 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-01 Date Collected: 12/17/21 09:45

Client ID: SB-20 Date Received: 12/17/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
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
Vinyl acetate	ND		ug/l	5.0	1.0	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
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-01
Client ID: SB-20
Sample Location: MANHATTAN, NY
Date Collected: 12/17/21 09:45
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	108		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-02
Client ID: SB-21
Sample Location: MANHATTAN, NY
Date Collected: 12/17/21 11:30
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/29/21 11:54
Analyst: PD

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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	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

Project Name: BATTERY PARK **Lab Number:** L2169771

Project Number: 20-1152 **Report Date:** 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-02 Date Collected: 12/17/21 11:30

Client ID: SB-21 Date Received: 12/17/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
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
Vinyl acetate	ND		ug/l	5.0	1.0	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
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-02
Client ID: SB-21
Sample Location: MANHATTAN, NY
Date Collected: 12/17/21 11:30
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	108		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-03
Client ID: SB-13
Sample Location: MANHATTAN, NY
Date Collected: 12/17/21 14:00
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/29/21 11:30
Analyst: PD

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	3.8		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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	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

Project Name: BATTERY PARK **Lab Number:** L2169771

Project Number: 20-1152 **Report Date:** 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-03 Date Collected: 12/17/21 14:00

Client ID: SB-13 Date Received: 12/17/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
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
Vinyl acetate	ND		ug/l	5.0	1.0	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
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-03
Client ID: SB-13
Sample Location: MANHATTAN, NY
Date Collected: 12/17/21 14:00
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	109		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-04
Client ID: TRIP BLANK
Sample Location: MANHATTAN, NY
Date Collected: 11/19/21 00:00
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/04/22 10:01
Analyst: PD

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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	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

Project Name: BATTERY PARK **Lab Number:** L2169771

Project Number: 20-1152 **Report Date:** 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-04 Date Collected: 11/19/21 00:00

Client ID: TRIP BLANK Date Received: 12/17/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
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
Vinyl acetate	ND		ug/l	5.0	1.0	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
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-04
Client ID: TRIP BLANK
Sample Location: MANHATTAN, NY
Date Collected: 11/19/21 00:00
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	96		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/29/21 10:41
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1589519-5					
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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/29/21 10:41
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1589519-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
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
Vinyl acetate	ND		ug/l	5.0	1.0
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
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/29/21 10:41
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1589519-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	108		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/04/22 08:30
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1590359-5					
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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/04/22 08:30
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1590359-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
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
Vinyl acetate	ND		ug/l	5.0	1.0
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
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: BATTERY PARK **Lab Number:** L2169771

Project Number: 20-1152 **Report Date:** 01/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/04/22 08:30
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1590359-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1589519-3 WG1589519-4								
Methylene chloride	100		110		70-130	10		20
1,1-Dichloroethane	100		110		70-130	10		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	100		110		63-132	10		20
1,2-Dichloropropane	96		100		70-130	4		20
Dibromochloromethane	100		97		63-130	3		20
1,1,2-Trichloroethane	93		96		70-130	3		20
Tetrachloroethene	99		100		70-130	1		20
Chlorobenzene	97		100		75-130	3		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	95		100		70-130	5		20
1,1,1-Trichloroethane	100		110		67-130	10		20
Bromodichloromethane	96		100		67-130	4		20
trans-1,3-Dichloropropene	88		92		70-130	4		20
cis-1,3-Dichloropropene	98		100		70-130	2		20
1,1-Dichloropropene	100		110		70-130	10		20
Bromoform	85		85		54-136	0		20
1,1,2,2-Tetrachloroethane	94		98		67-130	4		20
Benzene	100		100		70-130	0		20
Toluene	96		100		70-130	4		20
Ethylbenzene	96		100		70-130	4		20
Chloromethane	94		97		64-130	3		20
Bromomethane	61		61		39-139	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1589519-3 WG1589519-4								
Vinyl chloride	95		100		55-140	5		20
Chloroethane	100		110		55-138	10		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	100		110		70-130	10		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	95		100		70-130	5		20
1,3-Dichlorobenzene	97		100		70-130	3		20
1,4-Dichlorobenzene	96		100		70-130	4		20
Methyl tert butyl ether	89		92		63-130	3		20
p/m-Xylene	95		100		70-130	5		20
o-Xylene	95		100		70-130	5		20
cis-1,2-Dichloroethene	100		110		70-130	10		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	89		95		64-130	7		20
Acrylonitrile	110		100		70-130	10		20
Styrene	90		95		70-130	5		20
Dichlorodifluoromethane	97		100		36-147	3		20
Acetone	93		91		58-148	2		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	96		93		63-138	3		20
Vinyl acetate	100		100		70-130	0		20
4-Methyl-2-pentanone	73		77		59-130	5		20
2-Hexanone	75		78		57-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169771

Report Date: 01/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1589519-3 WG1589519-4								
Bromochloromethane	110		110		70-130	0		20
2,2-Dichloropropane	100		110		63-133	10		20
1,2-Dibromoethane	92		94		70-130	2		20
1,3-Dichloropropane	92		94		70-130	2		20
1,1,1,2-Tetrachloroethane	93		96		64-130	3		20
Bromobenzene	97		100		70-130	3		20
n-Butylbenzene	97		100		53-136	3		20
sec-Butylbenzene	99		100		70-130	1		20
tert-Butylbenzene	94		100		70-130	6		20
o-Chlorotoluene	95		100		70-130	5		20
p-Chlorotoluene	96		100		70-130	4		20
1,2-Dibromo-3-chloropropane	79		87		41-144	10		20
Hexachlorobutadiene	96		100		63-130	4		20
Isopropylbenzene	97		100		70-130	3		20
p-Isopropyltoluene	96		100		70-130	4		20
Naphthalene	87		93		70-130	7		20
n-Propylbenzene	96		100		69-130	4		20
1,2,3-Trichlorobenzene	92		99		70-130	7		20
1,2,4-Trichlorobenzene	92		100		70-130	8		20
1,3,5-Trimethylbenzene	93		99		64-130	6		20
1,2,4-Trimethylbenzene	92		96		70-130	4		20
1,4-Dioxane	100		106		56-162	6		20
p-Diethylbenzene	96		100		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169771

Report Date: 01/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1589519-3 WG1589519-4								
p-Ethyltoluene	97		100		70-130	3		20
1,2,4,5-Tetramethylbenzene	94		96		70-130	2		20
Ethyl ether	97		100		59-134	3		20
trans-1,4-Dichloro-2-butene	78		83		70-130	6		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		94		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	98		97		70-130
Dibromofluoromethane	99		100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1590359-3 WG1590359-4								
Methylene chloride	95		99		70-130	4		20
1,1-Dichloroethane	99		100		70-130	1		20
Chloroform	97		100		70-130	3		20
Carbon tetrachloride	95		98		63-132	3		20
1,2-Dichloropropane	96		99		70-130	3		20
Dibromochloromethane	86		90		63-130	5		20
1,1,2-Trichloroethane	87		91		70-130	4		20
Tetrachloroethene	95		98		70-130	3		20
Chlorobenzene	95		98		75-130	3		20
Trichlorofluoromethane	94		97		62-150	3		20
1,2-Dichloroethane	92		95		70-130	3		20
1,1,1-Trichloroethane	97		100		67-130	3		20
Bromodichloromethane	93		94		67-130	1		20
trans-1,3-Dichloropropene	88		92		70-130	4		20
cis-1,3-Dichloropropene	90		94		70-130	4		20
1,1-Dichloropropene	96		99		70-130	3		20
Bromoform	87		88		54-136	1		20
1,1,2,2-Tetrachloroethane	83		86		67-130	4		20
Benzene	99		100		70-130	1		20
Toluene	98		100		70-130	2		20
Ethylbenzene	96		99		70-130	3		20
Chloromethane	92		95		64-130	3		20
Bromomethane	100		100		39-139	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169771

Report Date: 01/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1590359-3 WG1590359-4								
Vinyl chloride	95		100		55-140	5		20
Chloroethane	99		100		55-138	1		20
1,1-Dichloroethene	93		99		61-145	6		20
trans-1,2-Dichloroethene	99		100		70-130	1		20
Trichloroethene	97		100		70-130	3		20
1,2-Dichlorobenzene	90		94		70-130	4		20
1,3-Dichlorobenzene	95		97		70-130	2		20
1,4-Dichlorobenzene	95		96		70-130	1		20
Methyl tert butyl ether	82		86		63-130	5		20
p/m-Xylene	95		100		70-130	5		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	97		100		70-130	3		20
Dibromomethane	88		91		70-130	3		20
1,2,3-Trichloropropane	84		90		64-130	7		20
Acrylonitrile	82		87		70-130	6		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	91		94		36-147	3		20
Acetone	84		82		58-148	2		20
Carbon disulfide	97		98		51-130	1		20
2-Butanone	72		74		63-138	3		20
Vinyl acetate	87		90		70-130	3		20
4-Methyl-2-pentanone	75		83		59-130	10		20
2-Hexanone	72		77		57-130	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169771

Report Date: 01/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1590359-3 WG1590359-4								
Bromochloromethane	97		99		70-130	2		20
2,2-Dichloropropane	99		100		63-133	1		20
1,2-Dibromoethane	86		90		70-130	5		20
1,3-Dichloropropane	87		92		70-130	6		20
1,1,1,2-Tetrachloroethane	92		96		64-130	4		20
Bromobenzene	96		99		70-130	3		20
n-Butylbenzene	96		98		53-136	2		20
sec-Butylbenzene	94		96		70-130	2		20
tert-Butylbenzene	95		96		70-130	1		20
o-Chlorotoluene	98		100		70-130	2		20
p-Chlorotoluene	97		99		70-130	2		20
1,2-Dibromo-3-chloropropane	70		76		41-144	8		20
Hexachlorobutadiene	99		100		63-130	1		20
Isopropylbenzene	98		98		70-130	0		20
p-Isopropyltoluene	95		98		70-130	3		20
Naphthalene	**68**	Q	77		70-130	12		20
n-Propylbenzene	97		99		69-130	2		20
1,2,3-Trichlorobenzene	72		82		70-130	13		20
1,2,4-Trichlorobenzene	82		88		70-130	7		20
1,3,5-Trimethylbenzene	95		97		64-130	2		20
1,2,4-Trimethylbenzene	96		98		70-130	2		20
1,4-Dioxane	94		100		56-162	6		20
p-Diethylbenzene	95		97		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169771

Report Date: 01/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1590359-3 WG1590359-4								
p-Ethyltoluene	96		98		70-130	2		20
1,2,4,5-Tetramethylbenzene	94		96		70-130	2		20
Ethyl ether	84		90		59-134	7		20
trans-1,4-Dichloro-2-butene	80		84		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		93		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	102		100		70-130
Dibromofluoromethane	98		98		70-130

SEMIVOLATILES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-01
Client ID: SB-20
Sample Location: MANHATTAN, NY

Date Collected: 12/17/21 09:45
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 12/23/21 15:46
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 12/22/21 18:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
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

Project Name: BATTERY PARK **Lab Number:** L2169771

Project Number: 20-1152 **Report Date:** 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-01 Date Collected: 12/17/21 09:45

Client ID: SB-20 Date Received: 12/17/21

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
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
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	52		15-120
2,4,6-Tribromophenol	48		10-120
4-Terphenyl-d14	66		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-01
Client ID: SB-20
Sample Location: MANHATTAN, NY

Date Collected: 12/17/21 09:45
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 12/26/21 17:06
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 12/22/21 18:22

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	0.03	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	0.03	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	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	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	ND		ug/l	0.10	0.01	1
Pyrene	0.03	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-01
Client ID: SB-20
Sample Location: MANHATTAN, NY
Date Collected: 12/17/21 09:45
Date Received: 12/17/21
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	40		21-120
Phenol-d6	38		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	48		10-120
4-Terphenyl-d14	80		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-02
Client ID: SB-21
Sample Location: MANHATTAN, NY

Date Collected: 12/17/21 11:30
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 12/23/21 16:12
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 12/22/21 18:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-02
Client ID: SB-21
Sample Location: MANHATTAN, NY
Date Collected: 12/17/21 11:30
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
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
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	58		15-120
2,4,6-Tribromophenol	54		10-120
4-Terphenyl-d14	70		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-02
Client ID: SB-21
Sample Location: MANHATTAN, NY

Date Collected: 12/17/21 11:30
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 12/26/21 17:25
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 12/22/21 18:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.03	J	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	0.05	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.03	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.04	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.04	J	ug/l	0.10	0.01	1
Chrysene	0.04	J	ug/l	0.10	0.01	1
Acenaphthylene	0.02	J	ug/l	0.10	0.01	1
Anthracene	0.03	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.03	J	ug/l	0.10	0.01	1
Fluorene	0.04	J	ug/l	0.10	0.01	1
Phenanthrene	0.05	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.04	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.04	J	ug/l	0.10	0.01	1
Pyrene	0.05	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.03	J	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: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-02
Client ID: SB-21
Sample Location: MANHATTAN, NY
Date Collected: 12/17/21 11:30
Date Received: 12/17/21
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	46		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	57		10-120
4-Terphenyl-d14	87		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-03
Client ID: SB-13
Sample Location: MANHATTAN, NY

Date Collected: 12/17/21 14:00
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 12/27/21 11:38
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 12/22/21 18:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-03
Client ID: SB-13
Sample Location: MANHATTAN, NY
Date Collected: 12/17/21 14:00
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
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
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		21-120
Phenol-d6	70		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	96		15-120
2,4,6-Tribromophenol	80		10-120
4-Terphenyl-d14	87		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-03
Client ID: SB-13
Sample Location: MANHATTAN, NY

Date Collected: 12/17/21 14:00
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 12/26/21 17:45
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 12/22/21 18:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.02	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.03	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	0.02	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Chrysene	0.03	J	ug/l	0.10	0.01	1
Acenaphthylene	0.02	J	ug/l	0.10	0.01	1
Anthracene	0.03	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.02	J	ug/l	0.10	0.01	1
Fluorene	0.03	J	ug/l	0.10	0.01	1
Phenanthrene	0.04	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.02	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.02	J	ug/l	0.10	0.01	1
Pyrene	0.03	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.03	J	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: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-03
Client ID: SB-13
Sample Location: MANHATTAN, NY
Date Collected: 12/17/21 14:00
Date Received: 12/17/21
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	69		21-120
Phenol-d6	63		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	98		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	102		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/23/21 10:08
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 12/22/21 18:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1586830-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
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
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/23/21 10:08
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 12/22/21 18:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1586830-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
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
2-Methylnaphthalene	ND		ug/l	2.0	0.45
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
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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/23/21 10:08
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 12/22/21 18:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1586830-1					
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
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	52		15-120
2,4,6-Tribromophenol	51		10-120
4-Terphenyl-d14	64		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 12/23/21 21:06
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 12/22/21 18:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03 Batch: WG1586833-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	0.01	J	ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 12/23/21 21:06
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 12/22/21 18:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03 Batch: WG1586833-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		21-120
Phenol-d6	35		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	57		10-120
4-Terphenyl-d14	73		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1586830-2 WG1586830-3								
Acenaphthene	58		58		37-111	0		30
1,2,4-Trichlorobenzene	47		47		39-98	0		30
Hexachlorobenzene	55		56		40-140	2		30
Bis(2-chloroethyl)ether	57		57		40-140	0		30
2-Chloronaphthalene	49		48		40-140	2		30
1,2-Dichlorobenzene	52		52		40-140	0		30
1,3-Dichlorobenzene	51		49		40-140	4		30
1,4-Dichlorobenzene	51		51		36-97	0		30
3,3'-Dichlorobenzidine	56		55		40-140	2		30
2,4-Dinitrotoluene	55		64		48-143	15		30
2,6-Dinitrotoluene	48		52		40-140	8		30
Fluoranthene	58		61		40-140	5		30
4-Chlorophenyl phenyl ether	56		58		40-140	4		30
4-Bromophenyl phenyl ether	52		56		40-140	7		30
Bis(2-chloroisopropyl)ether	53		52		40-140	2		30
Bis(2-chloroethoxy)methane	56		56		40-140	0		30
Hexachlorobutadiene	44		44		40-140	0		30
Hexachlorocyclopentadiene	**34**	Q	**35**	Q	40-140	3		30
Hexachloroethane	50		51		40-140	2		30
Isophorone	56		54		40-140	4		30
Naphthalene	54		55		40-140	2		30
Nitrobenzene	53		54		40-140	2		30
NDPA/DPA	59		58		40-140	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1586830-2 WG1586830-3								
n-Nitrosodi-n-propylamine	53		54		29-132	2		30
Bis(2-ethylhexyl)phthalate	65		68		40-140	5		30
Butyl benzyl phthalate	60		63		40-140	5		30
Di-n-butylphthalate	60		66		40-140	10		30
Di-n-octylphthalate	65		70		40-140	7		30
Diethyl phthalate	59		63		40-140	7		30
Dimethyl phthalate	51		54		40-140	6		30
Benzo(a)anthracene	61		64		40-140	5		30
Benzo(a)pyrene	57		58		40-140	2		30
Benzo(b)fluoranthene	62		66		40-140	6		30
Benzo(k)fluoranthene	62		66		40-140	6		30
Chrysene	62		64		40-140	3		30
Acenaphthylene	50		51		45-123	2		30
Anthracene	60		63		40-140	5		30
Benzo(ghi)perylene	64		68		40-140	6		30
Fluorene	58		59		40-140	2		30
Phenanthrene	60		63		40-140	5		30
Dibenzo(a,h)anthracene	67		72		40-140	7		30
Indeno(1,2,3-cd)pyrene	68		73		40-140	7		30
Pyrene	58		60		26-127	3		30
Biphenyl	57		56		40-140	2		30
4-Chloroaniline	46		50		40-140	8		30
2-Nitroaniline	58		60		52-143	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1586830-2 WG1586830-3								
3-Nitroaniline	52		62		25-145	18		30
4-Nitroaniline	58		63		51-143	8		30
Dibenzofuran	58		59		40-140	2		30
2-Methylnaphthalene	51		53		40-140	4		30
1,2,4,5-Tetrachlorobenzene	50		49		2-134	2		30
Acetophenone	60		60		39-129	0		30
2,4,6-Trichlorophenol	50		52		30-130	4		30
p-Chloro-m-cresol	62		64		23-97	3		30
2-Chlorophenol	59		60		27-123	2		30
2,4-Dichlorophenol	56		58		30-130	4		30
2,4-Dimethylphenol	62		59		30-130	5		30
2-Nitrophenol	60		52		30-130	14		30
4-Nitrophenol	50		56		10-80	11		30
2,4-Dinitrophenol	40		42		20-130	5		30
4,6-Dinitro-o-cresol	46		54		20-164	16		30
Pentachlorophenol	35		43		9-103	21		30
Phenol	39		42		12-110	7		30
2-Methylphenol	59		60		30-130	2		30
3-Methylphenol/4-Methylphenol	64		63		30-130	2		30
2,4,5-Trichlorophenol	52		50		30-130	4		30
Benzoic Acid	**9**	Q	11		10-164	22		30
Benzyl Alcohol	57		58		26-116	2		30
Carbazole	65		69		55-144	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169771

Report Date: 01/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1586830-2 WG1586830-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	58		55		21-120
Phenol-d6	43		44		10-120
Nitrobenzene-d5	58		57		23-120
2-Fluorobiphenyl	51		51		15-120
2,4,6-Tribromophenol	58		60		10-120
4-Terphenyl-d14	65		68		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG1586833-2 WG1586833-3								
Acenaphthene	58		63		40-140	8		40
2-Chloronaphthalene	58		63		40-140	8		40
Fluoranthene	74		77		40-140	4		40
Hexachlorobutadiene	52		58		40-140	11		40
Naphthalene	54		60		40-140	11		40
Benzo(a)anthracene	67		72		40-140	7		40
Benzo(a)pyrene	56		72		40-140	25		40
Benzo(b)fluoranthene	80		83		40-140	4		40
Benzo(k)fluoranthene	72		75		40-140	4		40
Chrysene	67		71		40-140	6		40
Acenaphthylene	59		64		40-140	8		40
Anthracene	62		71		40-140	14		40
Benzo(ghi)perylene	61		66		40-140	8		40
Fluorene	66		70		40-140	6		40
Phenanthrene	67		71		40-140	6		40
Dibenzo(a,h)anthracene	70		73		40-140	4		40
Indeno(1,2,3-cd)pyrene	71		75		40-140	5		40
Pyrene	71		76		40-140	7		40
2-Methylnaphthalene	60		66		40-140	10		40
Pentachlorophenol	52		53		40-140	2		40
Hexachlorobenzene	62		65		40-140	5		40
Hexachloroethane	47		53		40-140	12		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169771

Report Date: 01/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG1586833-2 WG1586833-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	37		47		21-120
Phenol-d6	31		40		10-120
Nitrobenzene-d5	49		56		23-120
2-Fluorobiphenyl	62		67		15-120
2,4,6-Tribromophenol	53		61		10-120
4-Terphenyl-d14	76		81		41-149

PCBS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-01
Client ID: SB-20
Sample Location: MANHATTAN, NY

Date Collected: 12/17/21 09:45
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 01/02/22 16:18
Analyst: CW

Extraction Method: EPA 3510C
Extraction Date: 12/30/21 23:35
Cleanup Method: EPA 3665A
Cleanup Date: 01/02/22
Cleanup Method: EPA 3660B
Cleanup Date: 01/02/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-02
Client ID: SB-21
Sample Location: MANHATTAN, NY

Date Collected: 12/17/21 11:30
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 01/02/22 16:27
Analyst: CW

Extraction Method: EPA 3510C
Extraction Date: 12/30/21 23:35
Cleanup Method: EPA 3665A
Cleanup Date: 01/02/22
Cleanup Method: EPA 3660B
Cleanup Date: 01/02/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-03
Client ID: SB-13
Sample Location: MANHATTAN, NY

Date Collected: 12/17/21 14:00
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 01/02/22 16:36
Analyst: CW

Extraction Method: EPA 3510C
Extraction Date: 12/30/21 23:35
Cleanup Method: EPA 3665A
Cleanup Date: 01/02/22
Cleanup Method: EPA 3660B
Cleanup Date: 01/02/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 12/30/21 14:28
Analyst: JWL

Extraction Method: EPA 3510C
Extraction Date: 12/30/21 01:45
Cleanup Method: EPA 3665A
Cleanup Date: 12/30/21
Cleanup Method: EPA 3660B
Cleanup Date: 12/30/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-03 Batch: WG1589030-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	86		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169771

Report Date: 01/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1589030-2 WG1589030-3									
Aroclor 1016	94		85		40-140	11		50	A
Aroclor 1260	94		85		40-140	10		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		81		30-150	A
Decachlorobiphenyl	99		88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		77		30-150	B
Decachlorobiphenyl	89		80		30-150	B

PESTICIDES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-01
Client ID: SB-20
Sample Location: MANHATTAN, NY

Date Collected: 12/17/21 09:45
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 12/24/21 11:32
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 12/23/21 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-01
Client ID: SB-20
Sample Location: MANHATTAN, NY
Date Collected: 12/17/21 09:45
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**27**	Q	30-150	A
Decachlorobiphenyl	**26**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	**27**	Q	30-150	B
Decachlorobiphenyl	**22**	Q	30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-01
Client ID: SB-20
Sample Location: MANHATTAN, NY

Date Collected: 12/17/21 09:45
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 01/03/22 17:52
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 12/22/21 03:12

Methylation Date: 12/23/21 21:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	73		30-150	A
DCAA	68		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-01 RE
Client ID: SB-20
Sample Location: MANHATTAN, NY

Date Collected: 12/17/21 09:45
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 12/29/21 12:58
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 12/28/21 08:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: BATTERY PARK
Lab Number: L2169771
Project Number: 20-1152
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-01 RE
Client ID: SB-20
Sample Location: MANHATTAN, NY
Date Collected: 12/17/21 09:45
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-02
Client ID: SB-21
Sample Location: MANHATTAN, NY

Date Collected: 12/17/21 11:30
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 12/24/21 11:43
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 12/23/21 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-02
Client ID: SB-21
Sample Location: MANHATTAN, NY
Date Collected: 12/17/21 11:30
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	32		30-150	A
Decachlorobiphenyl	**27**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	**27**	Q	30-150	B
Decachlorobiphenyl	**23**	Q	30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-02
Client ID: SB-21
Sample Location: MANHATTAN, NY

Date Collected: 12/17/21 11:30
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 01/03/22 18:10
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 12/22/21 03:12

Methylation Date: 12/23/21 21:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	77		30-150	A
DCAA	71		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-02 RE
Client ID: SB-21
Sample Location: MANHATTAN, NY

Date Collected: 12/17/21 11:30
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 12/29/21 13:11
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 12/28/21 08:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: BATTERY PARK **Lab Number:** L2169771

Project Number: 20-1152 **Report Date:** 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-02 RE
Client ID: SB-21
Sample Location: MANHATTAN, NY

Date Collected: 12/17/21 11:30
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-03
Client ID: SB-13
Sample Location: MANHATTAN, NY

Date Collected: 12/17/21 14:00
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 12/24/21 19:39
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 12/23/21 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-03
Client ID: SB-13
Sample Location: MANHATTAN, NY
Date Collected: 12/17/21 14:00
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**29**	Q	30-150	A
Decachlorobiphenyl	32		30-150	A
2,4,5,6-Tetrachloro-m-xylene	**27**	Q	30-150	B
Decachlorobiphenyl	**26**	Q	30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-03
Client ID: SB-13
Sample Location: MANHATTAN, NY

Date Collected: 12/17/21 14:00
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 01/03/22 18:44
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 12/22/21 03:12

Methylation Date: 12/23/21 21:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	73		30-150	A
DCAA	76		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-03 RE
Client ID: SB-13
Sample Location: MANHATTAN, NY

Date Collected: 12/17/21 14:00
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 12/29/21 13:23
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 12/28/21 08:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-03 RE
Client ID: SB-13
Sample Location: MANHATTAN, NY
Date Collected: 12/17/21 14:00
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 12/24/21 12:11
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 12/22/21 03:12

Methylation Date: 12/23/21 21:59

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1586391-1						
2,4-D	ND		ug/l	10.0	0.498	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	97		30-150	A
DCAA	71		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/24/21 10:47
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 12/23/21 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1587098-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/24/21 10:47
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 12/23/21 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1587098-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**29**	Q	30-150	A
Decachlorobiphenyl	33		30-150	A
2,4,5,6-Tetrachloro-m-xylene	**26**	Q	30-150	B
Decachlorobiphenyl	32		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/29/21 12:08
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 12/28/21 08:33

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1588199-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/29/21 12:08
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 12/28/21 08:33

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1588199-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	60		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1586391-2 WG1586391-3									
2,4-D	85		82		30-150	4		25	A
2,4,5-T	84		82		30-150	2		25	A
2,4,5-TP (Silvex)	82		80		30-150	2		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	85		83		30-150	A
DCAA	99		94		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1587098-2 WG1587098-3									
Delta-BHC	**17**	Q	**17**	Q	30-150	1		20	A
Lindane	**26**	Q	**26**	Q	30-150	1		20	A
Alpha-BHC	**24**	Q	**24**	Q	30-150	0		20	A
Beta-BHC	31		**29**	Q	30-150	5		20	A
Heptachlor	**28**	Q	**28**	Q	30-150	3		20	A
Aldrin	**25**	Q	**28**	Q	30-150	8		20	A
Heptachlor epoxide	**25**	Q	**26**	Q	30-150	6		20	A
Endrin	**27**	Q	**28**	Q	30-150	6		20	A
Endrin aldehyde	**23**	Q	**26**	Q	30-150	9		20	A
Endrin ketone	**26**	Q	**29**	Q	30-150	12		20	A
Dieldrin	**28**	Q	30		30-150	7		20	A
4,4'-DDE	**27**	Q	**28**	Q	30-150	6		20	A
4,4'-DDD	**29**	Q	31		30-150	9		20	A
4,4'-DDT	**26**	Q	**28**	Q	30-150	7		20	A
Endosulfan I	**25**	Q	**27**	Q	30-150	7		20	A
Endosulfan II	**29**	Q	31		30-150	9		20	A
Endosulfan sulfate	**25**	Q	**29**	Q	30-150	12		20	A
Methoxychlor	**27**	Q	38		30-150	**33**	Q	20	A
cis-Chlordane	**23**	Q	**24**	Q	30-150	6		20	A
trans-Chlordane	**28**	Q	**29**	Q	30-150	3		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169771

Report Date: 01/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1587098-2 WG1587098-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**28**	Q	**27**	Q	30-150	A
Decachlorobiphenyl	34		39		30-150	A
2,4,5,6-Tetrachloro-m-xylene	**24**	Q	**26**	Q	30-150	B
Decachlorobiphenyl	**29**	Q	31		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169771

Report Date: 01/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1588199-2 WG1588199-3									
Delta-BHC	42		48		30-150	13		20	A
Lindane	66		72		30-150	9		20	A
Alpha-BHC	59		71		30-150	18		20	A
Beta-BHC	80		91		30-150	13		20	A
Heptachlor	68		76		30-150	12		20	A
Aldrin	76		86		30-150	13		20	A
Heptachlor epoxide	67		76		30-150	12		20	A
Endrin	82		93		30-150	13		20	A
Endrin aldehyde	58		68		30-150	16		20	A
Endrin ketone	73		100		30-150	**31**	Q	20	A
Dieldrin	71		81		30-150	14		20	A
4,4'-DDE	69		82		30-150	16		20	A
4,4'-DDD	74		85		30-150	14		20	A
4,4'-DDT	67		76		30-150	13		20	A
Endosulfan I	64		72		30-150	13		20	A
Endosulfan II	69		83		30-150	18		20	A
Endosulfan sulfate	69		80		30-150	15		20	A
Methoxychlor	101		112		30-150	10		20	A
cis-Chlordane	67		81		30-150	18		20	A
trans-Chlordane	91		101		30-150	11		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169771

Report Date: 01/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1588199-2 WG1588199-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		86		30-150	A
Decachlorobiphenyl	73		86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		62		30-150	B
Decachlorobiphenyl	59		74		30-150	B

METALS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-01
Client ID: SB-20
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Water

Date Collected: 12/17/21 09:45
Date Received: 12/17/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.240		mg/l	0.0100	0.00327	1	01/03/22 18:23	01/05/22 23:45	EPA 3005A	1,6020B	WP
Antimony, Total	ND		mg/l	0.00400	0.00042	1	01/03/22 18:23	01/05/22 23:45	EPA 3005A	1,6020B	WP
Arsenic, Total	0.00425		mg/l	0.00050	0.00016	1	01/03/22 18:23	01/05/22 23:45	EPA 3005A	1,6020B	WP
Barium, Total	0.00899		mg/l	0.00050	0.00017	1	01/03/22 18:23	01/05/22 23:45	EPA 3005A	1,6020B	WP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	01/03/22 18:23	01/05/22 23:45	EPA 3005A	1,6020B	WP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	01/03/22 18:23	01/05/22 23:45	EPA 3005A	1,6020B	WP
Calcium, Total	37.4		mg/l	0.100	0.0394	1	01/03/22 18:23	01/05/22 23:45	EPA 3005A	1,6020B	WP
Chromium, Total	0.00225		mg/l	0.00100	0.00017	1	01/03/22 18:23	01/05/22 23:45	EPA 3005A	1,6020B	WP
Cobalt, Total	0.00238		mg/l	0.00050	0.00016	1	01/03/22 18:23	01/05/22 23:45	EPA 3005A	1,6020B	WP
Copper, Total	0.00089	J	mg/l	0.00100	0.00038	1	01/03/22 18:23	01/05/22 23:45	EPA 3005A	1,6020B	WP
Iron, Total	2.85		mg/l	0.0500	0.0191	1	01/03/22 18:23	01/05/22 23:45	EPA 3005A	1,6020B	WP
Lead, Total	0.00097	J	mg/l	0.00100	0.00034	1	01/03/22 18:23	01/05/22 23:45	EPA 3005A	1,6020B	WP
Magnesium, Total	7.88		mg/l	0.0700	0.0242	1	01/03/22 18:23	01/05/22 23:45	EPA 3005A	1,6020B	WP
Manganese, Total	1.050		mg/l	0.00100	0.00044	1	01/03/22 18:23	01/05/22 23:45	EPA 3005A	1,6020B	WP
Mercury, Total	0.00013	J	mg/l	0.00020	0.00009	1	01/03/22 19:07	01/04/22 14:07	EPA 7470A	1,7470A	AC
Nickel, Total	0.00112	J	mg/l	0.00200	0.00055	1	01/03/22 18:23	01/05/22 23:45	EPA 3005A	1,6020B	WP
Potassium, Total	3.33		mg/l	0.100	0.0309	1	01/03/22 18:23	01/05/22 23:45	EPA 3005A	1,6020B	WP
Selenium, Total	ND		mg/l	0.00500	0.00173	1	01/03/22 18:23	01/05/22 23:45	EPA 3005A	1,6020B	WP
Silver, Total	ND		mg/l	0.00040	0.00016	1	01/03/22 18:23	01/05/22 23:45	EPA 3005A	1,6020B	WP
Sodium, Total	14.4		mg/l	0.100	0.0293	1	01/03/22 18:23	01/05/22 23:45	EPA 3005A	1,6020B	WP
Thallium, Total	0.00020	J	mg/l	0.00100	0.00014	1	01/03/22 18:23	01/06/22 14:38	EPA 3005A	1,6020B	SV
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	01/03/22 18:23	01/05/22 23:45	EPA 3005A	1,6020B	WP
Zinc, Total	ND		mg/l	0.01000	0.00341	1	01/03/22 18:23	01/05/22 23:45	EPA 3005A	1,6020B	WP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		01/05/22 23:45	NA	107,-	

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-01
Client ID: SB-20
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Water

Date Collected: 12/17/21 09:45
Date Received: 12/17/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00685	J	mg/l	0.0100	0.00327	1	01/03/22 18:23	01/05/22 21:55	EPA 3005A	1,6020B	WP
Antimony, Dissolved	0.00062	J	mg/l	0.00400	0.00042	1	01/03/22 18:23	01/05/22 21:55	EPA 3005A	1,6020B	WP
Arsenic, Dissolved	0.00325		mg/l	0.00050	0.00016	1	01/03/22 18:23	01/05/22 21:55	EPA 3005A	1,6020B	WP
Barium, Dissolved	0.00796		mg/l	0.00050	0.00017	1	01/03/22 18:23	01/05/22 21:55	EPA 3005A	1,6020B	WP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	01/03/22 18:23	01/05/22 21:55	EPA 3005A	1,6020B	WP
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	01/03/22 18:23	01/05/22 21:55	EPA 3005A	1,6020B	WP
Calcium, Dissolved	37.5		mg/l	0.100	0.0394	1	01/03/22 18:23	01/05/22 21:55	EPA 3005A	1,6020B	WP
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	01/03/22 18:23	01/05/22 21:55	EPA 3005A	1,6020B	WP
Cobalt, Dissolved	0.00204		mg/l	0.00050	0.00016	1	01/03/22 18:23	01/05/22 21:55	EPA 3005A	1,6020B	WP
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	01/03/22 18:23	01/05/22 21:55	EPA 3005A	1,6020B	WP
Iron, Dissolved	1.37		mg/l	0.0500	0.0191	1	01/03/22 18:23	01/05/22 21:55	EPA 3005A	1,6020B	WP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	01/03/22 18:23	01/05/22 21:55	EPA 3005A	1,6020B	WP
Magnesium, Dissolved	7.64		mg/l	0.0700	0.0242	1	01/03/22 18:23	01/05/22 21:55	EPA 3005A	1,6020B	WP
Manganese, Dissolved	1.088		mg/l	0.00100	0.00044	1	01/03/22 18:23	01/05/22 21:55	EPA 3005A	1,6020B	WP
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	01/03/22 19:07	01/04/22 15:04	EPA 7470A	1,7470A	AC
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	01/03/22 18:23	01/05/22 21:55	EPA 3005A	1,6020B	WP
Potassium, Dissolved	3.21		mg/l	0.100	0.0309	1	01/03/22 18:23	01/05/22 21:55	EPA 3005A	1,6020B	WP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	01/03/22 18:23	01/05/22 21:55	EPA 3005A	1,6020B	WP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	01/03/22 18:23	01/05/22 21:55	EPA 3005A	1,6020B	WP
Sodium, Dissolved	14.2		mg/l	0.100	0.0293	1	01/03/22 18:23	01/05/22 21:55	EPA 3005A	1,6020B	WP
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	01/03/22 18:23	01/06/22 11:12	EPA 3005A	1,6020B	SV
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	01/03/22 18:23	01/05/22 21:55	EPA 3005A	1,6020B	WP
Zinc, Dissolved	0.00563	J	mg/l	0.01000	0.00341	1	01/03/22 18:23	01/05/22 21:55	EPA 3005A	1,6020B	WP

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-02
Client ID: SB-21
Sample Location: MANHATTAN, NY
Date Collected: 12/17/21 11:30
Date Received: 12/17/21
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	0.242		mg/l	0.0100	0.00327	1	01/03/22 18:23	01/05/22 23:51	EPA 3005A	1,6020B	WP
Antimony, Total	ND		mg/l	0.00400	0.00042	1	01/03/22 18:23	01/05/22 23:51	EPA 3005A	1,6020B	WP
Arsenic, Total	0.00197		mg/l	0.00050	0.00016	1	01/03/22 18:23	01/05/22 23:51	EPA 3005A	1,6020B	WP
Barium, Total	0.01384		mg/l	0.00050	0.00017	1	01/03/22 18:23	01/05/22 23:51	EPA 3005A	1,6020B	WP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	01/03/22 18:23	01/05/22 23:51	EPA 3005A	1,6020B	WP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	01/03/22 18:23	01/05/22 23:51	EPA 3005A	1,6020B	WP
Calcium, Total	82.1		mg/l	0.100	0.0394	1	01/03/22 18:23	01/05/22 23:51	EPA 3005A	1,6020B	WP
Chromium, Total	0.00295		mg/l	0.00100	0.00017	1	01/03/22 18:23	01/05/22 23:51	EPA 3005A	1,6020B	WP
Cobalt, Total	0.00124		mg/l	0.00050	0.00016	1	01/03/22 18:23	01/05/22 23:51	EPA 3005A	1,6020B	WP
Copper, Total	0.00145		mg/l	0.00100	0.00038	1	01/03/22 18:23	01/05/22 23:51	EPA 3005A	1,6020B	WP
Iron, Total	2.70		mg/l	0.0500	0.0191	1	01/03/22 18:23	01/05/22 23:51	EPA 3005A	1,6020B	WP
Lead, Total	0.00065	J	mg/l	0.00100	0.00034	1	01/03/22 18:23	01/05/22 23:51	EPA 3005A	1,6020B	WP
Magnesium, Total	7.68		mg/l	0.0700	0.0242	1	01/03/22 18:23	01/05/22 23:51	EPA 3005A	1,6020B	WP
Manganese, Total	0.5275		mg/l	0.00100	0.00044	1	01/03/22 18:23	01/05/22 23:51	EPA 3005A	1,6020B	WP
Mercury, Total	ND		mg/l	0.00020	0.00009	1	01/03/22 19:07	01/04/22 14:20	EPA 7470A	1,7470A	AC
Nickel, Total	0.00108	J	mg/l	0.00200	0.00055	1	01/03/22 18:23	01/05/22 23:51	EPA 3005A	1,6020B	WP
Potassium, Total	4.44		mg/l	0.100	0.0309	1	01/03/22 18:23	01/05/22 23:51	EPA 3005A	1,6020B	WP
Selenium, Total	ND		mg/l	0.00500	0.00173	1	01/03/22 18:23	01/05/22 23:51	EPA 3005A	1,6020B	WP
Silver, Total	ND		mg/l	0.00040	0.00016	1	01/03/22 18:23	01/05/22 23:51	EPA 3005A	1,6020B	WP
Sodium, Total	17.9		mg/l	0.100	0.0293	1	01/03/22 18:23	01/05/22 23:51	EPA 3005A	1,6020B	WP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	01/03/22 18:23	01/06/22 14:42	EPA 3005A	1,6020B	SV
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	01/03/22 18:23	01/05/22 23:51	EPA 3005A	1,6020B	WP
Zinc, Total	ND		mg/l	0.01000	0.00341	1	01/03/22 18:23	01/05/22 23:51	EPA 3005A	1,6020B	WP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		01/05/22 23:51	NA	107,-	

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-02
Client ID: SB-21
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Water

Date Collected: 12/17/21 11:30
Date Received: 12/17/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00671	J	mg/l	0.0100	0.00327	1	01/03/22 18:23	01/05/22 23:12	EPA 3005A	1,6020B	WP
Antimony, Dissolved	0.00079	J	mg/l	0.00400	0.00042	1	01/03/22 18:23	01/05/22 23:12	EPA 3005A	1,6020B	WP
Arsenic, Dissolved	0.00089		mg/l	0.00050	0.00016	1	01/03/22 18:23	01/05/22 23:12	EPA 3005A	1,6020B	WP
Barium, Dissolved	0.01228		mg/l	0.00050	0.00017	1	01/03/22 18:23	01/05/22 23:12	EPA 3005A	1,6020B	WP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	01/03/22 18:23	01/05/22 23:12	EPA 3005A	1,6020B	WP
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	01/03/22 18:23	01/05/22 23:12	EPA 3005A	1,6020B	WP
Calcium, Dissolved	84.4		mg/l	0.100	0.0394	1	01/03/22 18:23	01/05/22 23:12	EPA 3005A	1,6020B	WP
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	01/03/22 18:23	01/05/22 23:12	EPA 3005A	1,6020B	WP
Cobalt, Dissolved	0.00105		mg/l	0.00050	0.00016	1	01/03/22 18:23	01/05/22 23:12	EPA 3005A	1,6020B	WP
Copper, Dissolved	0.00040	J	mg/l	0.00100	0.00038	1	01/03/22 18:23	01/05/22 23:12	EPA 3005A	1,6020B	WP
Iron, Dissolved	0.596		mg/l	0.0500	0.0191	1	01/03/22 18:23	01/05/22 23:12	EPA 3005A	1,6020B	WP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	01/03/22 18:23	01/05/22 23:12	EPA 3005A	1,6020B	WP
Magnesium, Dissolved	7.91		mg/l	0.0700	0.0242	1	01/03/22 18:23	01/05/22 23:12	EPA 3005A	1,6020B	WP
Manganese, Dissolved	0.4893		mg/l	0.00100	0.00044	1	01/03/22 18:23	01/05/22 23:12	EPA 3005A	1,6020B	WP
Mercury, Dissolved	0.00009	J	mg/l	0.00020	0.00009	1	01/03/22 19:07	01/04/22 15:20	EPA 7470A	1,7470A	AC
Nickel, Dissolved	0.00067	J	mg/l	0.00200	0.00055	1	01/03/22 18:23	01/05/22 23:12	EPA 3005A	1,6020B	WP
Potassium, Dissolved	4.43		mg/l	0.100	0.0309	1	01/03/22 18:23	01/05/22 23:12	EPA 3005A	1,6020B	WP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	01/03/22 18:23	01/05/22 23:12	EPA 3005A	1,6020B	WP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	01/03/22 18:23	01/05/22 23:12	EPA 3005A	1,6020B	WP
Sodium, Dissolved	18.7		mg/l	0.100	0.0293	1	01/03/22 18:23	01/05/22 23:12	EPA 3005A	1,6020B	WP
Thallium, Dissolved	0.00028	J	mg/l	0.00100	0.00014	1	01/03/22 18:23	01/06/22 11:36	EPA 3005A	1,6020B	SV
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	01/03/22 18:23	01/05/22 23:12	EPA 3005A	1,6020B	WP
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	01/03/22 18:23	01/05/22 23:12	EPA 3005A	1,6020B	WP

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-03
Client ID: SB-13
Sample Location: MANHATTAN, NY
Date Collected: 12/17/21 14:00
Date Received: 12/17/21
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	0.0303		mg/l	0.0200	0.00654	2	01/03/22 18:23	01/05/22 23:56	EPA 3005A	1,6020B	WP
Antimony, Total	ND		mg/l	0.00800	0.00085	2	01/03/22 18:23	01/05/22 23:56	EPA 3005A	1,6020B	WP
Arsenic, Total	0.00221		mg/l	0.00100	0.00033	2	01/03/22 18:23	01/05/22 23:56	EPA 3005A	1,6020B	WP
Barium, Total	0.07611		mg/l	0.00100	0.00034	2	01/03/22 18:23	01/05/22 23:56	EPA 3005A	1,6020B	WP
Beryllium, Total	ND		mg/l	0.00100	0.00021	2	01/03/22 18:23	01/05/22 23:56	EPA 3005A	1,6020B	WP
Cadmium, Total	ND		mg/l	0.00040	0.00011	2	01/03/22 18:23	01/05/22 23:56	EPA 3005A	1,6020B	WP
Calcium, Total	183.		mg/l	0.200	0.0788	2	01/03/22 18:23	01/05/22 23:56	EPA 3005A	1,6020B	WP
Chromium, Total	0.00088	J	mg/l	0.00200	0.00035	2	01/03/22 18:23	01/05/22 23:56	EPA 3005A	1,6020B	WP
Cobalt, Total	ND		mg/l	0.00100	0.00032	2	01/03/22 18:23	01/05/22 23:56	EPA 3005A	1,6020B	WP
Copper, Total	0.01283		mg/l	0.00200	0.00076	2	01/03/22 18:23	01/05/22 23:56	EPA 3005A	1,6020B	WP
Iron, Total	0.0986	J	mg/l	0.100	0.0382	2	01/03/22 18:23	01/05/22 23:56	EPA 3005A	1,6020B	WP
Lead, Total	ND		mg/l	0.00200	0.00068	2	01/03/22 18:23	01/05/22 23:56	EPA 3005A	1,6020B	WP
Magnesium, Total	147.		mg/l	0.140	0.0484	2	01/03/22 18:23	01/05/22 23:56	EPA 3005A	1,6020B	WP
Manganese, Total	0.00296		mg/l	0.00200	0.00088	2	01/03/22 18:23	01/05/22 23:56	EPA 3005A	1,6020B	WP
Mercury, Total	0.00009	J	mg/l	0.00020	0.00009	1	01/03/22 19:07	01/04/22 14:23	EPA 7470A	1,7470A	AC
Nickel, Total	ND		mg/l	0.00400	0.00111	2	01/03/22 18:23	01/05/22 23:56	EPA 3005A	1,6020B	WP
Potassium, Total	36.1		mg/l	0.200	0.0618	2	01/03/22 18:23	01/05/22 23:56	EPA 3005A	1,6020B	WP
Selenium, Total	ND		mg/l	0.0100	0.00346	2	01/03/22 18:23	01/05/22 23:56	EPA 3005A	1,6020B	WP
Silver, Total	ND		mg/l	0.00080	0.00032	2	01/03/22 18:23	01/05/22 23:56	EPA 3005A	1,6020B	WP
Sodium, Total	1220		mg/l	2.00	0.586	20	01/03/22 18:23	01/05/22 18:12	EPA 3005A	1,6020B	WP
Thallium, Total	ND		mg/l	0.00200	0.00028	2	01/03/22 18:23	01/06/22 14:47	EPA 3005A	1,6020B	SV
Vanadium, Total	ND		mg/l	0.01000	0.00314	2	01/03/22 18:23	01/05/22 23:56	EPA 3005A	1,6020B	WP
Zinc, Total	ND		mg/l	0.02000	0.00682	2	01/03/22 18:23	01/05/22 23:56	EPA 3005A	1,6020B	WP
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		01/05/22 23:56	NA	107,-	

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-03
Client ID: SB-13
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Water

Date Collected: 12/17/21 14:00
Date Received: 12/17/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0200	0.00654	2	01/03/22 18:23	01/05/22 23:18	EPA 3005A	1,6020B	WP
Antimony, Dissolved	0.00096	J	mg/l	0.00800	0.00085	2	01/03/22 18:23	01/05/22 23:18	EPA 3005A	1,6020B	WP
Arsenic, Dissolved	0.00222		mg/l	0.00100	0.00033	2	01/03/22 18:23	01/05/22 23:18	EPA 3005A	1,6020B	WP
Barium, Dissolved	0.07476		mg/l	0.00100	0.00034	2	01/03/22 18:23	01/05/22 23:18	EPA 3005A	1,6020B	WP
Beryllium, Dissolved	ND		mg/l	0.00100	0.00021	2	01/03/22 18:23	01/05/22 23:18	EPA 3005A	1,6020B	WP
Cadmium, Dissolved	0.00012	J	mg/l	0.00040	0.00011	2	01/03/22 18:23	01/05/22 23:18	EPA 3005A	1,6020B	WP
Calcium, Dissolved	185.		mg/l	0.200	0.0788	2	01/03/22 18:23	01/05/22 23:18	EPA 3005A	1,6020B	WP
Chromium, Dissolved	0.00089	J	mg/l	0.00200	0.00035	2	01/03/22 18:23	01/05/22 23:18	EPA 3005A	1,6020B	WP
Cobalt, Dissolved	ND		mg/l	0.00100	0.00032	2	01/03/22 18:23	01/05/22 23:18	EPA 3005A	1,6020B	WP
Copper, Dissolved	0.01285		mg/l	0.00200	0.00076	2	01/03/22 18:23	01/05/22 23:18	EPA 3005A	1,6020B	WP
Iron, Dissolved	ND		mg/l	0.100	0.0382	2	01/03/22 18:23	01/05/22 23:18	EPA 3005A	1,6020B	WP
Lead, Dissolved	ND		mg/l	0.00200	0.00068	2	01/03/22 18:23	01/05/22 23:18	EPA 3005A	1,6020B	WP
Magnesium, Dissolved	150.		mg/l	0.140	0.0484	2	01/03/22 18:23	01/05/22 23:18	EPA 3005A	1,6020B	WP
Manganese, Dissolved	0.00163	J	mg/l	0.00200	0.00088	2	01/03/22 18:23	01/05/22 23:18	EPA 3005A	1,6020B	WP
Mercury, Dissolved	0.00011	J	mg/l	0.00020	0.00009	1	01/03/22 19:07	01/04/22 15:24	EPA 7470A	1,7470A	AC
Nickel, Dissolved	ND		mg/l	0.00400	0.00111	2	01/03/22 18:23	01/05/22 23:18	EPA 3005A	1,6020B	WP
Potassium, Dissolved	36.5		mg/l	0.200	0.0618	2	01/03/22 18:23	01/05/22 23:18	EPA 3005A	1,6020B	WP
Selenium, Dissolved	ND		mg/l	0.0100	0.00346	2	01/03/22 18:23	01/05/22 23:18	EPA 3005A	1,6020B	WP
Silver, Dissolved	ND		mg/l	0.00080	0.00032	2	01/03/22 18:23	01/05/22 23:18	EPA 3005A	1,6020B	WP
Sodium, Dissolved	1260		mg/l	2.00	0.586	20	01/03/22 18:23	01/05/22 16:59	EPA 3005A	1,6020B	WP
Thallium, Dissolved	0.00032	J	mg/l	0.00200	0.00028	2	01/03/22 18:23	01/06/22 11:40	EPA 3005A	1,6020B	SV
Vanadium, Dissolved	ND		mg/l	0.01000	0.00314	2	01/03/22 18:23	01/05/22 23:18	EPA 3005A	1,6020B	WP
Zinc, Dissolved	ND		mg/l	0.02000	0.00682	2	01/03/22 18:23	01/05/22 23:18	EPA 3005A	1,6020B	WP

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1589344-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	01/03/22 18:23	01/05/22 17:23	1,6020B	WP
Antimony, Total	ND		mg/l	0.00400	0.00042	1	01/03/22 18:23	01/05/22 17:23	1,6020B	WP
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	01/03/22 18:23	01/05/22 17:23	1,6020B	WP
Barium, Total	ND		mg/l	0.00050	0.00017	1	01/03/22 18:23	01/05/22 17:23	1,6020B	WP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	01/03/22 18:23	01/05/22 17:23	1,6020B	WP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	01/03/22 18:23	01/05/22 17:23	1,6020B	WP
Calcium, Total	ND		mg/l	0.100	0.0394	1	01/03/22 18:23	01/05/22 17:23	1,6020B	WP
Chromium, Total	ND		mg/l	0.00100	0.00017	1	01/03/22 18:23	01/05/22 17:23	1,6020B	WP
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	01/03/22 18:23	01/05/22 17:23	1,6020B	WP
Copper, Total	ND		mg/l	0.00100	0.00038	1	01/03/22 18:23	01/05/22 17:23	1,6020B	WP
Iron, Total	ND		mg/l	0.0500	0.0191	1	01/03/22 18:23	01/05/22 17:23	1,6020B	WP
Lead, Total	ND		mg/l	0.00100	0.00034	1	01/03/22 18:23	01/05/22 17:23	1,6020B	WP
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	01/03/22 18:23	01/05/22 17:23	1,6020B	WP
Manganese, Total	ND		mg/l	0.00100	0.00044	1	01/03/22 18:23	01/05/22 17:23	1,6020B	WP
Nickel, Total	ND		mg/l	0.00200	0.00055	1	01/03/22 18:23	01/05/22 17:23	1,6020B	WP
Potassium, Total	ND		mg/l	0.100	0.0309	1	01/03/22 18:23	01/05/22 17:23	1,6020B	WP
Selenium, Total	ND		mg/l	0.00500	0.00173	1	01/03/22 18:23	01/05/22 17:23	1,6020B	WP
Silver, Total	ND		mg/l	0.00040	0.00016	1	01/03/22 18:23	01/05/22 17:23	1,6020B	WP
Sodium, Total	ND		mg/l	0.100	0.0293	1	01/03/22 18:23	01/05/22 17:23	1,6020B	WP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	01/03/22 18:23	01/05/22 17:23	1,6020B	WP
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	01/03/22 18:23	01/05/22 17:23	1,6020B	WP
Zinc, Total	ND		mg/l	0.01000	0.00341	1	01/03/22 18:23	01/05/22 17:23	1,6020B	WP

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): 01-03 Batch: WG1589345-1										
Mercury, Total	0.00010	J	mg/l	0.00020	0.00009	1	01/03/22 19:07	01/04/22 14:00	1,7470A	AC

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1589346-1										
Aluminum, Dissolved	0.00683	J	mg/l	0.0100	0.00327	1	01/03/22 18:23	01/05/22 16:11	1,6020B	WP
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	01/03/22 18:23	01/05/22 16:11	1,6020B	WP
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	01/03/22 18:23	01/05/22 16:11	1,6020B	WP
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	01/03/22 18:23	01/05/22 16:11	1,6020B	WP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	01/03/22 18:23	01/05/22 16:11	1,6020B	WP
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	01/03/22 18:23	01/05/22 16:11	1,6020B	WP
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	01/03/22 18:23	01/05/22 16:11	1,6020B	WP
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	01/03/22 18:23	01/05/22 16:11	1,6020B	WP
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	01/03/22 18:23	01/05/22 16:11	1,6020B	WP
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	01/03/22 18:23	01/05/22 16:11	1,6020B	WP
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	01/03/22 18:23	01/05/22 16:11	1,6020B	WP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	01/03/22 18:23	01/05/22 16:11	1,6020B	WP
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	01/03/22 18:23	01/05/22 16:11	1,6020B	WP
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	01/03/22 18:23	01/05/22 16:11	1,6020B	WP
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	01/03/22 18:23	01/05/22 16:11	1,6020B	WP
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	01/03/22 18:23	01/05/22 16:11	1,6020B	WP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	01/03/22 18:23	01/05/22 16:11	1,6020B	WP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	01/03/22 18:23	01/05/22 16:11	1,6020B	WP
Sodium, Dissolved	0.0389	J	mg/l	0.100	0.0293	1	01/03/22 18:23	01/05/22 16:11	1,6020B	WP
Thallium, Dissolved	0.00016	J	mg/l	0.00100	0.00014	1	01/03/22 18:23	01/05/22 16:11	1,6020B	WP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	01/03/22 18:23	01/05/22 16:11	1,6020B	WP
Zinc, Dissolved	0.00466	J	mg/l	0.01000	0.00341	1	01/03/22 18:23	01/05/22 16:11	1,6020B	WP

Prep Information

Digestion Method: EPA 3005A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1589347-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	01/03/22 19:07	01/04/22 14:57	1,7470A	AC

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169771

Report Date: 01/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1589344-2								
Aluminum, Total	106		-		80-120	-		
Antimony, Total	93		-		80-120	-		
Arsenic, Total	102		-		80-120	-		
Barium, Total	101		-		80-120	-		
Beryllium, Total	111		-		80-120	-		
Cadmium, Total	106		-		80-120	-		
Calcium, Total	99		-		80-120	-		
Chromium, Total	99		-		80-120	-		
Cobalt, Total	97		-		80-120	-		
Copper, Total	99		-		80-120	-		
Iron, Total	99		-		80-120	-		
Lead, Total	101		-		80-120	-		
Magnesium, Total	109		-		80-120	-		
Manganese, Total	100		-		80-120	-		
Nickel, Total	98		-		80-120	-		
Potassium, Total	105		-		80-120	-		
Selenium, Total	100		-		80-120	-		
Silver, Total	105		-		80-120	-		
Sodium, Total	106		-		80-120	-		
Thallium, Total	99		-		80-120	-		
Vanadium, Total	99		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169771

Report Date: 01/06/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1589344-2					
Zinc, Total	94	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1589345-2					
Mercury, Total	106	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169771

Report Date: 01/06/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1589346-2					
Aluminum, Dissolved	104	-	80-120	-	
Antimony, Dissolved	89	-	80-120	-	
Arsenic, Dissolved	102	-	80-120	-	
Barium, Dissolved	102	-	80-120	-	
Beryllium, Dissolved	107	-	80-120	-	
Cadmium, Dissolved	105	-	80-120	-	
Calcium, Dissolved	100	-	80-120	-	
Chromium, Dissolved	98	-	80-120	-	
Cobalt, Dissolved	96	-	80-120	-	
Copper, Dissolved	105	-	80-120	-	
Iron, Dissolved	110	-	80-120	-	
Lead, Dissolved	101	-	80-120	-	
Magnesium, Dissolved	108	-	80-120	-	
Manganese, Dissolved	100	-	80-120	-	
Nickel, Dissolved	102	-	80-120	-	
Potassium, Dissolved	103	-	80-120	-	
Selenium, Dissolved	99	-	80-120	-	
Silver, Dissolved	104	-	80-120	-	
Sodium, Dissolved	103	-	80-120	-	
Thallium, Dissolved	99	-	80-120	-	
Vanadium, Dissolved	98	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169771

Report Date: 01/06/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1589346-2					
Zinc, Dissolved	94	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1589347-2					
Mercury, Dissolved	103	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1589344-3 QC Sample: L2169693-04 Client ID: MS Sample												
Aluminum, Total	0.004J	2	2.05	102		-	-		75-125	-		20
Antimony, Total	ND	0.5	0.3291	**66**	Q	-	-		75-125	-		20
Arsenic, Total	ND	0.12	0.1189	99		-	-		75-125	-		20
Barium, Total	ND	2	1.980	99		-	-		75-125	-		20
Beryllium, Total	ND	0.05	0.05133	103		-	-		75-125	-		20
Cadmium, Total	ND	0.053	0.05573	105		-	-		75-125	-		20
Calcium, Total	ND	10	9.24	92		-	-		75-125	-		20
Chromium, Total	ND	0.2	0.1934	97		-	-		75-125	-		20
Cobalt, Total	ND	0.5	0.4702	94		-	-		75-125	-		20
Copper, Total	ND	0.25	0.2359	94		-	-		75-125	-		20
Iron, Total	ND	1	0.994	99		-	-		75-125	-		20
Lead, Total	ND	0.53	0.5151	97		-	-		75-125	-		20
Magnesium, Total	ND	10	10.5	105		-	-		75-125	-		20
Manganese, Total	0.00093J	0.5	0.4886	98		-	-		75-125	-		20
Nickel, Total	ND	0.5	0.4677	94		-	-		75-125	-		20
Potassium, Total	ND	10	10.1	101		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.122	102		-	-		75-125	-		20
Silver, Total	ND	0.05	0.05099	102		-	-		75-125	-		20
Sodium, Total	ND	10	10.0	100		-	-		75-125	-		20
Thallium, Total	ND	0.12	0.1113	93		-	-		75-125	-		20
Vanadium, Total	ND	0.5	0.4743	95		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

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): 01-03 QC Batch ID: WG1589344-3 QC Sample: L2169693-04 Client ID: MS Sample									
Zinc, Total	ND	0.5	0.4404	88	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1589345-3 QC Sample: L2169771-01 Client ID: SB-20									
Mercury, Total	0.00013J	0.005	0.00471	94	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1589346-3 QC Sample: L2169771-01 Client ID: SB-20									
Aluminum, Dissolved	0.00685J	2	1.94	97	-	-	75-125	-	20
Antimony, Dissolved	0.00062J	0.5	0.5295	106	-	-	75-125	-	20
Arsenic, Dissolved	0.00325	0.12	0.1233	100	-	-	75-125	-	20
Barium, Dissolved	0.00796	2	1.940	97	-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.05238	105	-	-	75-125	-	20
Cadmium, Dissolved	ND	0.053	0.05340	101	-	-	75-125	-	20
Calcium, Dissolved	37.5	10	46.4	89	-	-	75-125	-	20
Chromium, Dissolved	ND	0.2	0.1894	95	-	-	75-125	-	20
Cobalt, Dissolved	0.00204	0.5	0.4713	94	-	-	75-125	-	20
Copper, Dissolved	ND	0.25	0.2367	95	-	-	75-125	-	20
Iron, Dissolved	1.37	1	2.39	102	-	-	75-125	-	20
Lead, Dissolved	ND	0.53	0.5108	96	-	-	75-125	-	20
Magnesium, Dissolved	7.64	10	17.6	100	-	-	75-125	-	20
Manganese, Dissolved	1.088	0.5	1.571	97	-	-	75-125	-	20
Nickel, Dissolved	ND	0.5	0.4645	93	-	-	75-125	-	20
Potassium, Dissolved	3.21	10	13.1	99	-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.125	104	-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.05030	101	-	-	75-125	-	20
Sodium, Dissolved	14.2	10	23.4	92	-	-	75-125	-	20
Thallium, Dissolved	ND	0.12	0.1019	85	-	-	75-125	-	20
Vanadium, Dissolved	ND	0.5	0.4751	95	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1589346-3 QC Sample: L2169771-01 Client ID: SB-20									
Zinc, Dissolved	0.00563J	0.5	0.4016	80	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1589347-3 QC Sample: L2169771-01 Client ID: SB-20									
Mercury, Dissolved	ND	0.005	0.00467	93	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1589344-4 QC Sample: L2169693-04 Client ID: DUP Sample						
Arsenic, Total	ND	ND	mg/l	NC		20
Barium, Total	ND	ND	mg/l	NC		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Chromium, Total	ND	ND	mg/l	NC		20
Copper, Total	ND	ND	mg/l	NC		20
Lead, Total	ND	ND	mg/l	NC		20
Manganese, Total	0.00093J	0.00087J	mg/l	NC		20
Nickel, Total	ND	ND	mg/l	NC		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Zinc, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1589345-4 QC Sample: L2169771-01 Client ID: SB-20						
Mercury, Total	0.00013J	0.00018J	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1589346-4 QC Sample: L2169771-01 Client ID: SB-20					
Aluminum, Dissolved	0.00685J	0.00671J	mg/l	NC	20
Antimony, Dissolved	0.00062J	ND	mg/l	NC	20
Arsenic, Dissolved	0.00325	0.00308	mg/l	5	20
Barium, Dissolved	0.00796	0.00776	mg/l	2	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Calcium, Dissolved	37.5	37.1	mg/l	1	20
Chromium, Dissolved	ND	ND	mg/l	NC	20
Cobalt, Dissolved	0.00204	0.00203	mg/l	0	20
Copper, Dissolved	ND	ND	mg/l	NC	20
Iron, Dissolved	1.37	1.37	mg/l	0	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Magnesium, Dissolved	7.64	7.49	mg/l	2	20
Manganese, Dissolved	1.088	1.085	mg/l	0	20
Nickel, Dissolved	ND	ND	mg/l	NC	20
Potassium, Dissolved	3.21	3.17	mg/l	1	20
Selenium, Dissolved	ND	ND	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Sodium, Dissolved	14.2	13.9	mg/l	2	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1589346-4 QC Sample: L2169771-01 Client ID: SB-20					
Vanadium, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	0.00563J	0.00524J	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1589346-4 QC Sample: L2169771-01 Client ID: SB-20					
Thallium, Dissolved	ND	ND	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1589347-4 QC Sample: L2169771-01 Client ID: SB-20					
Mercury, Dissolved	ND	ND	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-01
Client ID: SB-20
Sample Location: MANHATTAN, NY

Date Collected: 12/17/21 09:45
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	12/30/21 13:50	12/30/21 17:03	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/18/21 07:35	12/18/21 07:55	1,7196A	KA

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-02
Client ID: SB-21
Sample Location: MANHATTAN, NY

Date Collected: 12/17/21 11:30
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.003	J	mg/l	0.005	0.001	1	12/30/21 13:50	12/30/21 17:04	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/18/21 07:35	12/18/21 07:55	1,7196A	KA

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

SAMPLE RESULTS

Lab ID: L2169771-03
Client ID: SB-13
Sample Location: MANHATTAN, NY

Date Collected: 12/17/21 14:00
Date Received: 12/17/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	12/30/21 13:50	12/30/21 17:07	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/18/21 07:35	12/18/21 07:56	1,7196A	KA

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2169771
Report Date: 01/06/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1584926-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/18/21 07:35	12/18/21 07:46	1,7196A	KA
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1588779-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	12/30/21 13:50	12/30/21 16:56	1,9010C/9012B	CS

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2169771

Report Date: 01/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1584926-2								
Chromium, Hexavalent	104		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1588779-2 WG1588779-3								
Cyanide, Total	99		100		85-115	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1584926-4 QC Sample: L2169771-02 Client ID: SB-21												
Chromium, Hexavalent	ND	0.1	0.106	106		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1588779-4 WG1588779-5 QC Sample: L2169771-02 Client ID: SB-21												
Cyanide, Total	0.003J	0.2	0.155	**78**	Q	0.191	96		80-120	**21**	Q	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1584926-3 QC Sample: L2169771-01 Client ID: SB-20						
Chromium, Hexavalent	ND	ND	mg/l	NC		20

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2169771-01A	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260(14)
L2169771-01B	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260(14)
L2169771-01C	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260(14)
L2169771-01D	Amber 120ml unpreserved	A	7	7	2.4	Y	Absent		NYTCL-8082-LVI(365)
L2169771-01E	Amber 120ml unpreserved	A	7	7	2.4	Y	Absent		NYTCL-8082-LVI(365)
L2169771-01F	Amber 120ml unpreserved	A	7	7	2.4	Y	Absent		NYTCL-8081(7)
L2169771-01G	Amber 120ml unpreserved	A	7	7	2.4	Y	Absent		NYTCL-8081(7)
L2169771-01H	Amber 250ml unpreserved	A	7	7	2.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2169771-01J	Amber 250ml unpreserved	A	7	7	2.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2169771-01K	Plastic 250ml unpreserved	A	7	7	2.4	Y	Absent		HEXCR-7196(1)
L2169771-01L	Plastic 250ml unpreserved	A	7	7	2.4	Y	Absent		-
L2169771-01M	Plastic 250ml HNO3 preserved	A	<2	<2	2.4	Y	Absent		FE-6020T(180),TL-6020T(180),BA-6020T(180),SE-6020T(180),CA-6020T(180),CR-6020T(180),NI-6020T(180),K-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),CD-6020T(180),MG-6020T(180),AL-6020T(180),AG-6020T(180),HG-T(28),CO-6020T(180)
L2169771-01N	Plastic 250ml NaOH preserved	A	>12	>12	2.4	Y	Absent		TCN-9010(14)
L2169771-01O	Amber 1000ml unpreserved	A	7	7	2.4	Y	Absent		HERB-APA(7)
L2169771-01P	Amber 1000ml unpreserved	A	7	7	2.4	Y	Absent		HERB-APA(7)

*Values in parentheses indicate holding time in days

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2169771-01X	Plastic 120ml HNO3 preserved Filtrates	A	NA		2.4	Y	Absent		V-6020S(180),CU-6020S(180),K-6020S(180),SE-6020S(180),MN-6020S(180),CO-6020S(180),BE-6020S(180),MG-6020S(180),ZN-6020S(180),FE-6020S(180),CR-6020S(180),CA-6020S(180),TL-6020S(180),BA-6020S(180),NA-6020S(180),PB-6020S(180),NI-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),HG-S(28),CD-6020S(180),AL-6020S(180)
L2169771-02A	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260(14)
L2169771-02B	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260(14)
L2169771-02C	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260(14)
L2169771-02D	Amber 120ml unpreserved	A	7	7	2.4	Y	Absent		NYTCL-8082-LVI(365)
L2169771-02E	Amber 120ml unpreserved	A	7	7	2.4	Y	Absent		NYTCL-8082-LVI(365)
L2169771-02F	Amber 120ml unpreserved	A	7	7	2.4	Y	Absent		NYTCL-8081(7)
L2169771-02G	Amber 120ml unpreserved	A	7	7	2.4	Y	Absent		NYTCL-8081(7)
L2169771-02H	Amber 250ml unpreserved	A	7	7	2.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2169771-02J	Amber 250ml unpreserved	A	7	7	2.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2169771-02K	Plastic 250ml unpreserved	A	7	7	2.4	Y	Absent		HEXCR-7196(1)
L2169771-02L	Plastic 250ml unpreserved	A	7	7	2.4	Y	Absent		-
L2169771-02M	Plastic 250ml HNO3 preserved	A	<2	<2	2.4	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),K-6020T(180),NI-6020T(180),CA-6020T(180),CR-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),CD-6020T(180),HG-T(28),AL-6020T(180),AG-6020T(180),MG-6020T(180),CO-6020T(180)
L2169771-02N	Plastic 250ml NaOH preserved	A	>12	>12	2.4	Y	Absent		TCN-9010(14)
L2169771-02O	Amber 1000ml unpreserved	A	7	7	2.4	Y	Absent		HERB-APA(7)
L2169771-02P	Amber 1000ml unpreserved	A	7	7	2.4	Y	Absent		HERB-APA(7)

*Values in parentheses indicate holding time in days

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2169771-02X	Plastic 120ml HNO3 preserved Filtrates	A	NA		2.4	Y	Absent		K-6020S(180),V-6020S(180),CU-6020S(180),SE-6020S(180),MN-6020S(180),ZN-6020S(180),MG-6020S(180),CO-6020S(180),BE-6020S(180),FE-6020S(180),CA-6020S(180),CR-6020S(180),NA-6020S(180),NI-6020S(180),TL-6020S(180),BA-6020S(180),PB-6020S(180),SB-6020S(180),AG-6020S(180),AS-6020S(180),AL-6020S(180),HG-S(28),CD-6020S(180)
L2169771-03A	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260(14)
L2169771-03B	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260(14)
L2169771-03C	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260(14)
L2169771-03D	Amber 120ml unpreserved	A	7	7	2.4	Y	Absent		NYTCL-8082-LVI(365)
L2169771-03E	Amber 120ml unpreserved	A	7	7	2.4	Y	Absent		NYTCL-8082-LVI(365)
L2169771-03F	Amber 120ml unpreserved	A	7	7	2.4	Y	Absent		NYTCL-8081(7)
L2169771-03G	Amber 120ml unpreserved	A	7	7	2.4	Y	Absent		NYTCL-8081(7)
L2169771-03H	Amber 250ml unpreserved	A	7	7	2.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2169771-03J	Amber 250ml unpreserved	A	7	7	2.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2169771-03K	Plastic 250ml unpreserved	A	7	7	2.4	Y	Absent		HEXCR-7196(1)
L2169771-03L	Plastic 250ml unpreserved	A	7	7	2.4	Y	Absent		-
L2169771-03M	Plastic 250ml HNO3 preserved	A	<2	<2	2.4	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),K-6020T(180),NI-6020T(180),CR-6020T(180),CA-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),HG-T(28),AG-6020T(180),AL-6020T(180),MG-6020T(180),CD-6020T(180),CO-6020T(180)
L2169771-03N	Plastic 250ml NaOH preserved	A	>12	>12	2.4	Y	Absent		TCN-9010(14)
L2169771-03O	Amber 1000ml unpreserved	A	7	7	2.4	Y	Absent		HERB-APA(7)
L2169771-03P	Amber 1000ml unpreserved	A	7	7	2.4	Y	Absent		HERB-APA(7)

*Values in parentheses indicate holding time in days

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2169771
Report Date: 01/06/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2169771-03X	Plastic 120ml HNO3 preserved Filtrates	A	NA		2.4	Y	Absent		SE-6020S(180),CU-6020S(180),K-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),ZN-6020S(180),CO-6020S(180),MG-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),BA-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),CD-6020S(180),HG-S(28),AL-6020S(180)
L2169771-04A	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260(14)
L2169771-04B	Vial HCl preserved	A	NA		2.4	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	BATTERY PARK	**Lab Number:**	L2169771
Project Number:	20-1152	**Report Date:**	01/06/22

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:	BATTERY PARK	**Lab Number:**	L2169771
Project Number:	20-1152	**Report Date:**	01/06/22

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. 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.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	BATTERY PARK	**Lab Number:**	L2169771
Project Number:	20-1152	**Report Date:**	01/06/22

Data Qualifiers

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:	BATTERY PARK	**Lab Number:**	L2169771
Project Number:	20-1152	**Report Date:**	01/06/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

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

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Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page of

Date Rec'd in Lab: 12/17/21

ALPHA Job #: L2169771

Client Information

Client: MATRIX
Address: 333 W 39th St
NEW YORK, NY
Phone:
Fax:
Email: BCRESPI@MNNE.COM

Project Information

Project Name: BATTERY PARK
Project Location: MANHATTAN, NY
Project #: 20-1152
(Use Project name as Project #) ☐
Project Manager: BRIAN CRESPI
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:

Lab Filtered/Total & dissolved Metals

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	TCL VOC	TCL SVOC	TCL PCB	TCL Pesticide	TCL Herbicide	TAL Metals (Ca,Cr,Cu,Fe)			Sample Specific Comments	Total Bottle
69771-01	SB-20	12/17/21	09:45	GW	PY	X	X	X	X	X	X				
-02	SB-21	12/17/21	11:30	GW	PY	X	X	X	X	X	X				
-03	SB-13	12/17/21	14:00	GW	PY	X	X	X	X	X	X				

Container Type
Preservative

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
	12-17-21 14:40		12/17/21 14:40
	12/17/21 16:00		12/17/21
12/17	21C		

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)

ANALYTICAL REPORT

Lab Number:	L2170846
Client:	Matrix New World Engineering, Inc. 333 West 39th Street, Second Floor New York City, NY 10018
ATTN:	Brian Crespi
Phone:	(212) 324-4251
Project Name:	BATTERY PARK
Project Number:	20-1152
Report Date:	01/17/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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

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

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2170846-01	SB-16 GW	WATER	BROOKLYN, NY	12/23/21 10:30	12/23/21
L2170846-02	SB-24 GW	WATER	BROOKLYN, NY	12/23/21 11:40	12/23/21
L2170846-03	TRIP BLANK	WATER	BROOKLYN, NY	12/23/21 00:00	12/23/21

Project Name:	BATTERY PARK	**Lab Number:**	L2170846
Project Number:	20-1152	**Report Date:**	01/17/22

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:	BATTERY PARK	**Lab Number:**	L2170846
Project Number:	20-1152	**Report Date:**	01/17/22

Case Narrative (continued)

Report Submission

January 17, 2022: This final report includes the results of all requested analyses.

January 14, 2022: This is a preliminary report.

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

Sample Receipt

L2170846-01 and -02: Sample containers identified as "SB-16 GW" and "SB-24 GW" were listed on the Chain of Custody for Herbicides analysis, but not received. This was verified by the client.

Total Metals

L2170846-01: The sample has elevated detection limits for lead and thallium due to the dilution required by the sample matrix.

Dissolved Metals

L2170846-01: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

L2170846-01: The sample has an elevated detection limit for mercury due to the dilution required by the limited sample volume available for analysis.

L2170846-01: The dissolved result is greater than the total result for calcium and potassium. The sample containers were verified as being labeled correctly by the laboratory, and aliquots were analyzed from each bottle, confirming the original results.

The WG1591327-1 Method Blank, associated with L2170846-01 and -02, has a concentration above the reporting limit for zinc. Since the associated sample concentrations are either greater than 10x the blank concentration or non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".

Project Name:	BATTERY PARK	**Lab Number:**	L2170846
Project Number:	20-1152	**Report Date:**	01/17/22

Case Narrative (continued)

The WG1591327-3 MS recoveries for calcium (70%), magnesium (40%), and sodium (2700%), performed on L2170846-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1591327-4 Laboratory Duplicate RPD for iron (22%), performed on L2170846-02, is above the acceptance criteria; however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

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

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 01/17/22

ORGANICS

VOLATILES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-01
Client ID: SB-16 GW
Sample Location: BROOKLYN, NY
Date Collected: 12/23/21 10:30
Date Received: 12/23/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/04/22 14:22
Analyst: AJK

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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	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

Project Name: BATTERY PARK **Lab Number:** L2170846

Project Number: 20-1152 **Report Date:** 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-01 Date Collected: 12/23/21 10:30

Client ID: SB-16 GW Date Received: 12/23/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
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
Vinyl acetate	ND		ug/l	5.0	1.0	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
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-01
Client ID: SB-16 GW
Sample Location: BROOKLYN, NY
Date Collected: 12/23/21 10:30
Date Received: 12/23/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	100		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-02
Client ID: SB-24 GW
Sample Location: BROOKLYN, NY
Date Collected: 12/23/21 11:40
Date Received: 12/23/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/04/22 14:47
Analyst: AJK

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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	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

Project Name: BATTERY PARK **Lab Number:** L2170846

Project Number: 20-1152 **Report Date:** 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-02 Date Collected: 12/23/21 11:40

Client ID: SB-24 GW Date Received: 12/23/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
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
Vinyl acetate	ND		ug/l	5.0	1.0	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
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-02
Client ID: SB-24 GW
Sample Location: BROOKLYN, NY
Date Collected: 12/23/21 11:40
Date Received: 12/23/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	101		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-03
Client ID: TRIP BLANK
Sample Location: BROOKLYN, NY

Date Collected: 12/23/21 00:00
Date Received: 12/23/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/04/22 15:13
Analyst: AJK

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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	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

Project Name: BATTERY PARK **Lab Number:** L2170846

Project Number: 20-1152 **Report Date:** 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-03 Date Collected: 12/23/21 00:00

Client ID: TRIP BLANK Date Received: 12/23/21

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
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
Vinyl acetate	ND		ug/l	5.0	1.0	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
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-03
Client ID: TRIP BLANK
Sample Location: BROOKLYN, NY
Date Collected: 12/23/21 00:00
Date Received: 12/23/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	99		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/04/22 10:07
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1590571-5					
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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/04/22 10:07
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1590571-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
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
Vinyl acetate	ND		ug/l	5.0	1.0
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
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/04/22 10:07
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1590571-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2170846

Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1590571-3 WG1590571-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	110		100		70-130	10		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	100		100		63-132	0		20
1,2-Dichloropropane	100		98		70-130	2		20
Dibromochloromethane	95		94		63-130	1		20
1,1,2-Trichloroethane	95		93		70-130	2		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	100		110		62-150	10		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	110		100		67-130	10		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	88		86		70-130	2		20
cis-1,3-Dichloropropene	89		91		70-130	2		20
1,1-Dichloropropene	91		93		70-130	2		20
Bromoform	91		89		54-136	2		20
1,1,2,2-Tetrachloroethane	88		91		67-130	3		20
Benzene	110		100		70-130	10		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	97		96		64-130	1		20
Bromomethane	**150**	Q	**150**	Q	39-139	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2170846

Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1590571-3 WG1590571-4								
Vinyl chloride	100		100		55-140	0		20
Chloroethane	130		120		55-138	8		20
1,1-Dichloroethene	110		100		61-145	10		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	100		110		70-130	10		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	92		92		63-130	0		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	105		110		70-130	5		20
cis-1,2-Dichloroethene	110		100		70-130	10		20
Dibromomethane	99		100		70-130	1		20
1,2,3-Trichloropropane	92		92		64-130	0		20
Acrylonitrile	83		84		70-130	1		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	90		88		36-147	2		20
Acetone	68		76		58-148	11		20
Carbon disulfide	100		100		51-130	0		20
2-Butanone	**62**	Q	**62**	Q	63-138	0		20
Vinyl acetate	79		79		70-130	0		20
4-Methyl-2-pentanone	75		78		59-130	4		20
2-Hexanone	68		70		57-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1590571-3 WG1590571-4								
Bromochloromethane	120		110		70-130	9		20
2,2-Dichloropropane	120		120		63-133	0		20
1,2-Dibromoethane	92		95		70-130	3		20
1,3-Dichloropropane	93		94		70-130	1		20
1,1,1,2-Tetrachloroethane	100		97		64-130	3		20
Bromobenzene	100		100		70-130	0		20
n-Butylbenzene	96		96		53-136	0		20
sec-Butylbenzene	93		93		70-130	0		20
tert-Butylbenzene	94		93		70-130	1		20
o-Chlorotoluene	110		100		70-130	10		20
p-Chlorotoluene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	70		75		41-144	7		20
Hexachlorobutadiene	88		88		63-130	0		20
Isopropylbenzene	95		95		70-130	0		20
p-Isopropyltoluene	92		92		70-130	0		20
Naphthalene	**65**	Q	73		70-130	12		20
n-Propylbenzene	100		100		69-130	0		20
1,2,3-Trichlorobenzene	76		83		70-130	9		20
1,2,4-Trichlorobenzene	86		89		70-130	3		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	92		94		70-130	2		20
1,4-Dioxane	78		84		56-162	7		20
p-Diethylbenzene	94		95		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2170846

Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1590571-3 WG1590571-4								
p-Ethyltoluene	97		98		70-130	1		20
1,2,4,5-Tetramethylbenzene	88		90		70-130	2		20
Ethyl ether	96		97		59-134	1		20
trans-1,4-Dichloro-2-butene	**60**	Q	**58**	Q	70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		100		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	98		96		70-130
Dibromofluoromethane	97		99		70-130

SEMIVOLATILES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-01
Client ID: SB-16 GW
Sample Location: BROOKLYN, NY

Date Collected: 12/23/21 10:30
Date Received: 12/23/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 01/01/22 14:50
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 12/26/21 15:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-01
Client ID: SB-16 GW
Sample Location: BROOKLYN, NY
Date Collected: 12/23/21 10:30
Date Received: 12/23/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
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
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	61		15-120
2,4,6-Tribromophenol	51		10-120
4-Terphenyl-d14	89		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-01
Client ID: SB-16 GW
Sample Location: BROOKLYN, NY

Date Collected: 12/23/21 10:30
Date Received: 12/23/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 12/27/21 22:06
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 12/26/21 15:20

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	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-01
Client ID: SB-16 GW
Sample Location: BROOKLYN, NY
Date Collected: 12/23/21 10:30
Date Received: 12/23/21
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	47		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	85		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	95		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-02
Client ID: SB-24 GW
Sample Location: BROOKLYN, NY

Date Collected: 12/23/21 11:40
Date Received: 12/23/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 01/01/22 14:24
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 12/29/21 03:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-02
Client ID: SB-24 GW
Sample Location: BROOKLYN, NY
Date Collected: 12/23/21 11:40
Date Received: 12/23/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
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
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		21-120
Phenol-d6	65		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	100		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-02
Client ID: SB-24 GW
Sample Location: BROOKLYN, NY

Date Collected: 12/23/21 11:40
Date Received: 12/23/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 12/30/21 13:41
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 12/29/21 03:35

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	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.03	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.02	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: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-02
Client ID: SB-24 GW
Sample Location: BROOKLYN, NY
Date Collected: 12/23/21 11:40
Date Received: 12/23/21
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	80		21-120
Phenol-d6	72		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	95		15-120
2,4,6-Tribromophenol	96		10-120
4-Terphenyl-d14	104		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/30/21 08:26
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 12/26/21 15:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1587634-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
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
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/30/21 08:26
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 12/26/21 15:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1587634-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
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
2-Methylnaphthalene	ND		ug/l	2.0	0.45
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
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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/30/21 08:26
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 12/26/21 15:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1587634-1					
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
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	52		10-120
4-Terphenyl-d14	89		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 12/27/21 14:58
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 12/26/21 15:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1587635-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 12/27/21 14:58
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 12/26/21 15:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1587635-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	69		10-120
4-Terphenyl-d14	82		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/30/21 11:09
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 12/29/21 03:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1588617-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
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
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/30/21 11:09
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 12/29/21 03:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1588617-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
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
2-Methylnaphthalene	ND		ug/l	2.0	0.45
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
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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/30/21 11:09
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 12/29/21 03:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1588617-1					
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
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		21-120
Phenol-d6	59		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	62		10-120
4-Terphenyl-d14	97		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 12/30/21 14:39
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 12/29/21 03:35

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 02 Batch: WG1588618-1					
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	0.03	J	ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	0.04	J	ug/l	0.10	0.01
Benzo(k)fluoranthene	0.06	J	ug/l	0.10	0.01
Chrysene	0.04	J	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	0.05	J	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	0.08	J	ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	0.06	J	ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 12/30/21 14:39
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 12/29/21 03:35

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 02 Batch: WG1588618-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		21-120
Phenol-d6	62		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	84		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	87		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1587634-2 WG1587634-3								
Acenaphthene	72		84		37-111	15		30
1,2,4-Trichlorobenzene	54		70		39-98	26		30
Hexachlorobenzene	63		74		40-140	16		30
Bis(2-chloroethyl)ether	70		86		40-140	21		30
2-Chloronaphthalene	61		76		40-140	22		30
1,2-Dichlorobenzene	59		72		40-140	20		30
1,3-Dichlorobenzene	56		64		40-140	13		30
1,4-Dichlorobenzene	54		68		36-97	23		30
3,3'-Dichlorobenzidine	54		69		40-140	24		30
2,4-Dinitrotoluene	75		87		48-143	15		30
2,6-Dinitrotoluene	61		81		40-140	28		30
Fluoranthene	77		88		40-140	13		30
4-Chlorophenyl phenyl ether	66		79		40-140	18		30
4-Bromophenyl phenyl ether	65		83		40-140	24		30
Bis(2-chloroisopropyl)ether	67		79		40-140	16		30
Bis(2-chloroethoxy)methane	71		85		40-140	18		30
Hexachlorobutadiene	49		57		40-140	15		30
Hexachlorocyclopentadiene	41		51		40-140	22		30
Hexachloroethane	54		65		40-140	18		30
Isophorone	68		84		40-140	21		30
Naphthalene	67		83		40-140	21		30
Nitrobenzene	66		85		40-140	25		30
NDPA/DPA	70		86		40-140	21		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1587634-2 WG1587634-3								
n-Nitrosodi-n-propylamine	65		81		29-132	22		30
Bis(2-ethylhexyl)phthalate	90		104		40-140	14		30
Butyl benzyl phthalate	90		100		40-140	11		30
Di-n-butylphthalate	87		104		40-140	18		30
Di-n-octylphthalate	91		106		40-140	15		30
Diethyl phthalate	77		91		40-140	17		30
Dimethyl phthalate	63		81		40-140	25		30
Benzo(a)anthracene	77		92		40-140	18		30
Benzo(a)pyrene	69		84		40-140	20		30
Benzo(b)fluoranthene	82		92		40-140	11		30
Benzo(k)fluoranthene	78		98		40-140	23		30
Chrysene	76		91		40-140	18		30
Acenaphthylene	63		77		45-123	20		30
Anthracene	77		89		40-140	14		30
Benzo(ghi)perylene	81		98		40-140	19		30
Fluorene	72		84		40-140	15		30
Phenanthrene	76		87		40-140	13		30
Dibenzo(a,h)anthracene	86		104		40-140	19		30
Indeno(1,2,3-cd)pyrene	85		107		40-140	23		30
Pyrene	75		86		26-127	14		30
Biphenyl	68		85		40-140	22		30
4-Chloroaniline	48		65		40-140	30		30
2-Nitroaniline	66		88		52-143	29		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1587634-2 WG1587634-3								
3-Nitroaniline	59		71		25-145	18		30
4-Nitroaniline	70		84		51-143	18		30
Dibenzofuran	70		83		40-140	17		30
2-Methylnaphthalene	64		80		40-140	22		30
1,2,4,5-Tetrachlorobenzene	56		73		2-134	26		30
Acetophenone	78		94		39-129	19		30
2,4,6-Trichlorophenol	59		81		30-130	**31**	Q	30
p-Chloro-m-cresol	74		95		23-97	25		30
2-Chlorophenol	72		92		27-123	24		30
2,4-Dichlorophenol	70		88		30-130	23		30
2,4-Dimethylphenol	33		62		30-130	**61**	Q	30
2-Nitrophenol	70		92		30-130	27		30
4-Nitrophenol	69		**81**	Q	10-80	16		30
2,4-Dinitrophenol	62		67		20-130	8		30
4,6-Dinitro-o-cresol	68		74		20-164	8		30
Pentachlorophenol	63		68		9-103	8		30
Phenol	46		60		12-110	26		30
2-Methylphenol	62		80		30-130	25		30
3-Methylphenol/4-Methylphenol	67		82		30-130	20		30
2,4,5-Trichlorophenol	64		77		30-130	18		30
Benzoic Acid	35		28		10-164	22		30
Benzyl Alcohol	66		75		26-116	13		30
Carbazole	84		94		55-144	11		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2170846

Report Date: 01/17/22

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

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1587634-2 WG1587634-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	68		79		21-120
Phenol-d6	51		62		10-120
Nitrobenzene-d5	70		82		23-120
2-Fluorobiphenyl	64		76		15-120
2,4,6-Tribromophenol	70		88		10-120
4-Terphenyl-d14	86		98		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2170846

Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1587635-2 WG1587635-3								
Acenaphthene	86		78		40-140	10		40
2-Chloronaphthalene	89		76		40-140	16		40
Fluoranthene	98		91		40-140	7		40
Hexachlorobutadiene	66		45		40-140	38		40
Naphthalene	82		70		40-140	16		40
Benzo(a)anthracene	97		86		40-140	12		40
Benzo(a)pyrene	99		91		40-140	8		40
Benzo(b)fluoranthene	99		93		40-140	6		40
Benzo(k)fluoranthene	106		102		40-140	4		40
Chrysene	91		90		40-140	1		40
Acenaphthylene	98		87		40-140	12		40
Anthracene	92		85		40-140	8		40
Benzo(ghi)perylene	106		87		40-140	20		40
Fluorene	91		84		40-140	8		40
Phenanthrene	89		82		40-140	8		40
Dibenzo(a,h)anthracene	114		93		40-140	20		40
Indeno(1,2,3-cd)pyrene	116		95		40-140	20		40
Pyrene	93		90		40-140	3		40
2-Methylnaphthalene	86		73		40-140	16		40
Pentachlorophenol	86		76		40-140	12		40
Hexachlorobenzene	83		70		40-140	17		40
Hexachloroethane	67		46		40-140	37		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2170846

Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1587635-2 WG1587635-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	65		55		21-120
Phenol-d6	53		44		10-120
Nitrobenzene-d5	94		83		23-120
2-Fluorobiphenyl	92		78		15-120
2,4,6-Tribromophenol	96		87		10-120
4-Terphenyl-d14	93		92		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1588617-2 WG1588617-3								
Acenaphthene	83		82		37-111	1		30
1,2,4-Trichlorobenzene	80		81		39-98	1		30
Hexachlorobenzene	72		74		40-140	3		30
Bis(2-chloroethyl)ether	79		80		40-140	1		30
2-Chloronaphthalene	85		83		40-140	2		30
1,2-Dichlorobenzene	75		77		40-140	3		30
1,3-Dichlorobenzene	75		74		40-140	1		30
1,4-Dichlorobenzene	73		74		36-97	1		30
3,3'-Dichlorobenzidine	78		80		40-140	3		30
2,4-Dinitrotoluene	83		84		48-143	1		30
2,6-Dinitrotoluene	91		88		40-140	3		30
Fluoranthene	98		89		40-140	10		30
4-Chlorophenyl phenyl ether	83		84		40-140	1		30
4-Bromophenyl phenyl ether	81		85		40-140	5		30
Bis(2-chloroisopropyl)ether	95		97		40-140	2		30
Bis(2-chloroethoxy)methane	85		83		40-140	2		30
Hexachlorobutadiene	77		79		40-140	3		30
Hexachlorocyclopentadiene	69		73		40-140	6		30
Hexachloroethane	69		73		40-140	6		30
Isophorone	83		86		40-140	4		30
Naphthalene	80		79		40-140	1		30
Nitrobenzene	75		77		40-140	3		30
NDPA/DPA	83		83		40-140	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1588617-2 WG1588617-3								
n-Nitrosodi-n-propylamine	88		91		29-132	3		30
Bis(2-ethylhexyl)phthalate	95		96		40-140	1		30
Butyl benzyl phthalate	99		93		40-140	6		30
Di-n-butylphthalate	88		88		40-140	0		30
Di-n-octylphthalate	92		93		40-140	1		30
Diethyl phthalate	84		84		40-140	0		30
Dimethyl phthalate	80		76		40-140	5		30
Benzo(a)anthracene	92		88		40-140	4		30
Benzo(a)pyrene	87		83		40-140	5		30
Benzo(b)fluoranthene	92		93		40-140	1		30
Benzo(k)fluoranthene	96		94		40-140	2		30
Chrysene	89		88		40-140	1		30
Acenaphthylene	86		84		45-123	2		30
Anthracene	88		84		40-140	5		30
Benzo(ghi)perylene	92		90		40-140	2		30
Fluorene	85		85		40-140	0		30
Phenanthrene	85		81		40-140	5		30
Dibenzo(a,h)anthracene	89		88		40-140	1		30
Indeno(1,2,3-cd)pyrene	88		91		40-140	3		30
Pyrene	94		90		26-127	4		30
Biphenyl	90		90		40-140	0		30
4-Chloroaniline	56		52		40-140	7		30
2-Nitroaniline	82		83		52-143	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1588617-2 WG1588617-3								
3-Nitroaniline	71		71		25-145	0		30
4-Nitroaniline	81		80		51-143	1		30
Dibenzofuran	82		83		40-140	1		30
2-Methylnaphthalene	83		84		40-140	1		30
1,2,4,5-Tetrachlorobenzene	87		84		2-134	4		30
Acetophenone	86		88		39-129	2		30
2,4,6-Trichlorophenol	89		87		30-130	2		30
p-Chloro-m-cresol	91		88		23-97	3		30
2-Chlorophenol	78		79		27-123	1		30
2,4-Dichlorophenol	84		85		30-130	1		30
2,4-Dimethylphenol	79		81		30-130	3		30
2-Nitrophenol	75		78		30-130	4		30
4-Nitrophenol	67		65		10-80	3		30
2,4-Dinitrophenol	51		46		20-130	10		30
4,6-Dinitro-o-cresol	79		80		20-164	1		30
Pentachlorophenol	64		67		9-103	5		30
Phenol	69		71		12-110	3		30
2-Methylphenol	78		79		30-130	1		30
3-Methylphenol/4-Methylphenol	82		86		30-130	5		30
2,4,5-Trichlorophenol	89		89		30-130	0		30
Benzoic Acid	62		60		10-164	3		30
Benzyl Alcohol	73		76		26-116	4		30
Carbazole	86		83		55-144	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

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

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1588617-2 WG1588617-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	74		76		21-120
Phenol-d6	71		71		10-120
Nitrobenzene-d5	82		85		23-120
2-Fluorobiphenyl	89		90		15-120
2,4,6-Tribromophenol	75		73		10-120
4-Terphenyl-d14	106		97		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 02 Batch: WG1588618-2 WG1588618-3								
Acenaphthene	94		89		40-140	5		40
2-Chloronaphthalene	98		91		40-140	7		40
Fluoranthene	104		99		40-140	5		40
Hexachlorobutadiene	89		82		40-140	8		40
Naphthalene	92		85		40-140	8		40
Benzo(a)anthracene	99		93		40-140	6		40
Benzo(a)pyrene	98		91		40-140	7		40
Benzo(b)fluoranthene	104		100		40-140	4		40
Benzo(k)fluoranthene	109		98		40-140	11		40
Chrysene	102		96		40-140	6		40
Acenaphthylene	101		95		40-140	6		40
Anthracene	103		97		40-140	6		40
Benzo(ghi)perylene	104		97		40-140	7		40
Fluorene	100		94		40-140	6		40
Phenanthrene	96		91		40-140	5		40
Dibenzo(a,h)anthracene	109		101		40-140	8		40
Indeno(1,2,3-cd)pyrene	111		103		40-140	7		40
Pyrene	105		98		40-140	7		40
2-Methylnaphthalene	94		86		40-140	9		40
Pentachlorophenol	84		73		40-140	14		40
Hexachlorobenzene	100		94		40-140	6		40
Hexachloroethane	87		79		40-140	10		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2170846

Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 02 Batch: WG1588618-2 WG1588618-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	76		69		21-120
Phenol-d6	65		60		10-120
Nitrobenzene-d5	99		91		23-120
2-Fluorobiphenyl	98		91		15-120
2,4,6-Tribromophenol	116		108		10-120
4-Terphenyl-d14	105		100		41-149

PCBS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-01
Client ID: SB-16 GW
Sample Location: BROOKLYN, NY

Date Collected: 12/23/21 10:30
Date Received: 12/23/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 01/05/22 23:08
Analyst: JM

Extraction Method: EPA 3510C
Extraction Date: 01/05/22 06:16
Cleanup Method: EPA 3665A
Cleanup Date: 01/05/22
Cleanup Method: EPA 3660B
Cleanup Date: 01/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-02
Client ID: SB-24 GW
Sample Location: BROOKLYN, NY

Date Collected: 12/23/21 11:40
Date Received: 12/23/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 01/05/22 23:17
Analyst: JM

Extraction Method: EPA 3510C
Extraction Date: 01/05/22 06:16
Cleanup Method: EPA 3665A
Cleanup Date: 01/05/22
Cleanup Method: EPA 3660B
Cleanup Date: 01/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 01/05/22 22:33
Analyst: JM

Extraction Method: EPA 3510C
Extraction Date: 01/05/22 06:16
Cleanup Method: EPA 3665A
Cleanup Date: 01/05/22
Cleanup Method: EPA 3660B
Cleanup Date: 01/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG1590707-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	88		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2170846

Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1590707-2 WG1590707-3									
Aroclor 1016	57		59		40-140	4		50	A
Aroclor 1260	61		62		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		62		30-150	A
Decachlorobiphenyl	72		71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		72		30-150	B
Decachlorobiphenyl	75		83		30-150	B

PESTICIDES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-01
Client ID: SB-16 GW
Sample Location: BROOKLYN, NY

Date Collected: 12/23/21 10:30
Date Received: 12/23/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 12/29/21 13:36
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 12/28/21 18:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-01
Client ID: SB-16 GW
Sample Location: BROOKLYN, NY
Date Collected: 12/23/21 10:30
Date Received: 12/23/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-02
Client ID: SB-24 GW
Sample Location: BROOKLYN, NY

Date Collected: 12/23/21 11:40
Date Received: 12/23/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 12/30/21 12:05
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 12/29/21 13:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-02
Client ID: SB-24 GW
Sample Location: BROOKLYN, NY
Date Collected: 12/23/21 11:40
Date Received: 12/23/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/29/21 12:08
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 12/28/21 08:33

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1588199-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/29/21 12:08
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 12/28/21 08:33

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1588199-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/30/21 11:33
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 12/29/21 13:25

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02 Batch: WG1588875-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/30/21 11:33
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 12/29/21 13:25

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02 Batch: WG1588875-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	74		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1588199-2 WG1588199-3									
Delta-BHC	42		48		30-150	13		20	A
Lindane	66		72		30-150	9		20	A
Alpha-BHC	59		71		30-150	18		20	A
Beta-BHC	80		91		30-150	13		20	A
Heptachlor	68		76		30-150	12		20	A
Aldrin	76		86		30-150	13		20	A
Heptachlor epoxide	67		76		30-150	12		20	A
Endrin	82		93		30-150	13		20	A
Endrin aldehyde	58		68		30-150	16		20	A
Endrin ketone	73		100		30-150	**31**	Q	20	A
Dieldrin	71		81		30-150	14		20	A
4,4'-DDE	69		82		30-150	16		20	A
4,4'-DDD	74		85		30-150	14		20	A
4,4'-DDT	67		76		30-150	13		20	A
Endosulfan I	64		72		30-150	13		20	A
Endosulfan II	69		83		30-150	18		20	A
Endosulfan sulfate	69		80		30-150	15		20	A
Methoxychlor	101		112		30-150	10		20	A
cis-Chlordane	67		81		30-150	18		20	A
trans-Chlordane	91		101		30-150	11		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2170846

Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1588199-2 WG1588199-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		86		30-150	A
Decachlorobiphenyl	73		86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		62		30-150	B
Decachlorobiphenyl	59		74		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02 Batch: WG1588875-2 WG1588875-3									
Delta-BHC	40		32		30-150	20		20	A
Lindane	66		52		30-150	**23**	Q	20	A
Alpha-BHC	56		48		30-150	17		20	A
Beta-BHC	67		52		30-150	**26**	Q	20	A
Heptachlor	68		57		30-150	18		20	A
Aldrin	60		51		30-150	16		20	A
Heptachlor epoxide	66		55		30-150	20		20	A
Endrin	68		57		30-150	17		20	A
Endrin aldehyde	60		54		30-150	11		20	A
Endrin ketone	77		66		30-150	17		20	A
Dieldrin	69		58		30-150	18		20	A
4,4'-DDE	67		56		30-150	18		20	A
4,4'-DDD	71		60		30-150	17		20	A
4,4'-DDT	71		59		30-150	18		20	A
Endosulfan I	62		52		30-150	18		20	A
Endosulfan II	70		60		30-150	16		20	A
Endosulfan sulfate	60		51		30-150	15		20	A
Methoxychlor	77		66		30-150	16		20	A
cis-Chlordane	56		48		30-150	16		20	A
trans-Chlordane	66		54		30-150	20		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2170846

Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02 Batch: WG1588875-2 WG1588875-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		48		30-150	A
Decachlorobiphenyl	86		74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		50		30-150	B
Decachlorobiphenyl	86		70		30-150	B

METALS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-01
Client ID: SB-16 GW
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 12/23/21 10:30
Date Received: 12/23/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0197		mg/l	0.0100	0.00327	1	01/05/22 18:10	01/06/22 23:44	EPA 3005A	1,6020B	SV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	01/05/22 18:10	01/06/22 23:44	EPA 3005A	1,6020B	SV
Arsenic, Total	0.00134		mg/l	0.00050	0.00016	1	01/05/22 18:10	01/06/22 23:44	EPA 3005A	1,6020B	SV
Barium, Total	0.01804		mg/l	0.00500	0.00173	10	01/05/22 18:10	01/07/22 22:39	EPA 3005A	1,6020B	WP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	01/05/22 18:10	01/06/22 23:44	EPA 3005A	1,6020B	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	01/05/22 18:10	01/06/22 23:44	EPA 3005A	1,6020B	SV
Calcium, Total	45.7		mg/l	0.100	0.0394	1	01/05/22 18:10	01/06/22 23:44	EPA 3005A	1,6020B	SV
Chromium, Total	0.00019	J	mg/l	0.00100	0.00017	1	01/05/22 18:10	01/06/22 23:44	EPA 3005A	1,6020B	SV
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	01/05/22 18:10	01/06/22 23:44	EPA 3005A	1,6020B	SV
Copper, Total	0.00203		mg/l	0.00100	0.00038	1	01/05/22 18:10	01/06/22 23:44	EPA 3005A	1,6020B	SV
Iron, Total	0.0503		mg/l	0.0500	0.0191	1	01/05/22 18:10	01/06/22 23:44	EPA 3005A	1,6020B	SV
Lead, Total	ND		mg/l	0.01000	0.00343	10	01/05/22 18:10	01/07/22 22:39	EPA 3005A	1,6020B	WP
Magnesium, Total	493.		mg/l	0.0700	0.0242	1	01/05/22 18:10	01/06/22 23:44	EPA 3005A	1,6020B	SV
Manganese, Total	0.00076	J	mg/l	0.00100	0.00044	1	01/05/22 18:10	01/06/22 23:44	EPA 3005A	1,6020B	SV
Mercury, Total	0.00010	J	mg/l	0.00020	0.00009	1	01/05/22 19:38	01/06/22 10:16	EPA 7470A	1,7470A	AC
Nickel, Total	0.00084	J	mg/l	0.00200	0.00055	1	01/05/22 18:10	01/06/22 23:44	EPA 3005A	1,6020B	SV
Potassium, Total	79.4		mg/l	0.100	0.0309	1	01/05/22 18:10	01/06/22 23:44	EPA 3005A	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	01/05/22 18:10	01/06/22 23:44	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	01/05/22 18:10	01/06/22 23:44	EPA 3005A	1,6020B	SV
Sodium, Total	4370		mg/l	2.00	0.586	20	01/05/22 18:10	01/07/22 22:44	EPA 3005A	1,6020B	WP
Thallium, Total	ND		mg/l	0.01000	0.00143	10	01/05/22 18:10	01/07/22 22:39	EPA 3005A	1,6020B	WP
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	01/05/22 18:10	01/06/22 23:44	EPA 3005A	1,6020B	SV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	01/05/22 18:10	01/06/22 23:44	EPA 3005A	1,6020B	SV
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0500	0.0164	5	01/09/22 12:26	01/14/22 17:02	EPA 3005A	1,6020B	WP
Antimony, Dissolved	ND		mg/l	0.02000	0.00214	5	01/09/22 12:26	01/14/22 17:02	EPA 3005A	1,6020B	WP
Arsenic, Dissolved	0.00156	J	mg/l	0.00250	0.00082	5	01/09/22 12:26	01/14/22 17:02	EPA 3005A	1,6020B	WP
Barium, Dissolved	0.01723		mg/l	0.00250	0.00086	5	01/09/22 12:26	01/14/22 17:02	EPA 3005A	1,6020B	WP
Beryllium, Dissolved	ND		mg/l	0.00250	0.00053	5	01/09/22 12:26	01/14/22 17:02	EPA 3005A	1,6020B	WP

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-01
Client ID: SB-16 GW
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 12/23/21 10:30
Date Received: 12/23/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00100	0.00029	5	01/09/22 12:26	01/14/22 17:02	EPA 3005A	1,6020B	WP
Calcium, Dissolved	164.		mg/l	0.500	0.197	5	01/09/22 12:26	01/14/22 17:02	EPA 3005A	1,6020B	WP
Chromium, Dissolved	ND		mg/l	0.00500	0.00089	5	01/09/22 12:26	01/14/22 17:02	EPA 3005A	1,6020B	WP
Cobalt, Dissolved	ND		mg/l	0.00250	0.00081	5	01/09/22 12:26	01/14/22 17:02	EPA 3005A	1,6020B	WP
Copper, Dissolved	ND		mg/l	0.00500	0.00192	5	01/09/22 12:26	01/14/22 17:02	EPA 3005A	1,6020B	WP
Iron, Dissolved	ND		mg/l	0.250	0.0955	5	01/09/22 12:26	01/14/22 17:02	EPA 3005A	1,6020B	WP
Lead, Dissolved	ND		mg/l	0.00500	0.00171	5	01/09/22 12:26	01/14/22 17:02	EPA 3005A	1,6020B	WP
Magnesium, Dissolved	490.		mg/l	0.350	0.121	5	01/09/22 12:26	01/14/22 17:02	EPA 3005A	1,6020B	WP
Manganese, Dissolved	0.00220	J	mg/l	0.00500	0.00220	5	01/09/22 12:26	01/14/22 17:02	EPA 3005A	1,6020B	WP
Mercury, Dissolved	ND		mg/l	0.00200	0.00091	1	01/12/22 16:34	01/12/22 21:07	EPA 7470A	1,7470A	ZK
Nickel, Dissolved	ND		mg/l	0.01000	0.00278	5	01/09/22 12:26	01/14/22 17:02	EPA 3005A	1,6020B	WP
Potassium, Dissolved	132.		mg/l	0.500	0.154	5	01/09/22 12:26	01/14/22 17:02	EPA 3005A	1,6020B	WP
Selenium, Dissolved	ND		mg/l	0.0250	0.00865	5	01/09/22 12:26	01/14/22 17:02	EPA 3005A	1,6020B	WP
Silver, Dissolved	ND		mg/l	0.00200	0.00081	5	01/09/22 12:26	01/14/22 17:02	EPA 3005A	1,6020B	WP
Sodium, Dissolved	4020		mg/l	1.00	0.293	10	01/09/22 12:26	01/14/22 18:31	EPA 3005A	1,6020B	WP
Thallium, Dissolved	ND		mg/l	0.00500	0.00071	5	01/09/22 12:26	01/14/22 17:02	EPA 3005A	1,6020B	WP
Vanadium, Dissolved	ND		mg/l	0.02500	0.00785	5	01/09/22 12:26	01/14/22 17:02	EPA 3005A	1,6020B	WP
Zinc, Dissolved	ND		mg/l	0.05000	0.01705	5	01/09/22 12:26	01/14/22 17:02	EPA 3005A	1,6020B	WP

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-02
Client ID: SB-24 GW
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 12/23/21 11:40
Date Received: 12/23/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0393		mg/l	0.0100	0.00327	1	01/05/22 18:10	01/06/22 23:48	EPA 3005A	1,6020B	SV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	01/05/22 18:10	01/06/22 23:48	EPA 3005A	1,6020B	SV
Arsenic, Total	0.00102		mg/l	0.00050	0.00016	1	01/05/22 18:10	01/06/22 23:48	EPA 3005A	1,6020B	SV
Barium, Total	0.00368		mg/l	0.00050	0.00017	1	01/05/22 18:10	01/06/22 23:48	EPA 3005A	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	01/05/22 18:10	01/06/22 23:48	EPA 3005A	1,6020B	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	01/05/22 18:10	01/06/22 23:48	EPA 3005A	1,6020B	SV
Calcium, Total	109.		mg/l	0.100	0.0394	1	01/05/22 18:10	01/06/22 23:48	EPA 3005A	1,6020B	SV
Chromium, Total	0.00064	J	mg/l	0.00100	0.00017	1	01/05/22 18:10	01/06/22 23:48	EPA 3005A	1,6020B	SV
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	01/05/22 18:10	01/06/22 23:48	EPA 3005A	1,6020B	SV
Copper, Total	ND		mg/l	0.00100	0.00038	1	01/05/22 18:10	01/06/22 23:48	EPA 3005A	1,6020B	SV
Iron, Total	0.234		mg/l	0.0500	0.0191	1	01/05/22 18:10	01/06/22 23:48	EPA 3005A	1,6020B	SV
Lead, Total	ND		mg/l	0.00100	0.00034	1	01/05/22 18:10	01/06/22 23:48	EPA 3005A	1,6020B	SV
Magnesium, Total	18.2		mg/l	0.0700	0.0242	1	01/05/22 18:10	01/06/22 23:48	EPA 3005A	1,6020B	SV
Manganese, Total	0.1255		mg/l	0.00100	0.00044	1	01/05/22 18:10	01/06/22 23:48	EPA 3005A	1,6020B	SV
Mercury, Total	0.00009	J	mg/l	0.00020	0.00009	1	01/05/22 19:38	01/06/22 10:19	EPA 7470A	1,7470A	AC
Nickel, Total	0.00176	J	mg/l	0.00200	0.00055	1	01/05/22 18:10	01/06/22 23:48	EPA 3005A	1,6020B	SV
Potassium, Total	17.2		mg/l	0.100	0.0309	1	01/05/22 18:10	01/06/22 23:48	EPA 3005A	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	01/05/22 18:10	01/06/22 23:48	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	01/05/22 18:10	01/06/22 23:48	EPA 3005A	1,6020B	SV
Sodium, Total	100.		mg/l	0.100	0.0293	1	01/05/22 18:10	01/06/22 23:48	EPA 3005A	1,6020B	SV
Thallium, Total	ND		mg/l	0.00100	0.00014	1	01/05/22 18:10	01/06/22 23:48	EPA 3005A	1,6020B	SV
Vanadium, Total	0.00242	J	mg/l	0.00500	0.00157	1	01/05/22 18:10	01/06/22 23:48	EPA 3005A	1,6020B	SV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	01/05/22 18:10	01/06/22 23:48	EPA 3005A	1,6020B	SV
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00437	J	mg/l	0.0100	0.00327	1	01/09/22 12:26	01/14/22 16:51	EPA 3005A	1,6020B	WP
Antimony, Dissolved	0.00105	J	mg/l	0.00400	0.00042	1	01/09/22 12:26	01/14/22 16:51	EPA 3005A	1,6020B	WP
Arsenic, Dissolved	0.00089		mg/l	0.00050	0.00016	1	01/09/22 12:26	01/14/22 16:51	EPA 3005A	1,6020B	WP
Barium, Dissolved	0.00337		mg/l	0.00050	0.00017	1	01/09/22 12:26	01/14/22 16:51	EPA 3005A	1,6020B	WP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	01/09/22 12:26	01/14/22 16:51	EPA 3005A	1,6020B	WP

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-02
Client ID: SB-24 GW
Sample Location: BROOKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 12/23/21 11:40
Date Received: 12/23/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	01/09/22 12:26	01/14/22 16:51	EPA 3005A	1,6020B	WP
Calcium, Dissolved	112.		mg/l	0.100	0.0394	1	01/09/22 12:26	01/14/22 16:51	EPA 3005A	1,6020B	WP
Chromium, Dissolved	0.00037	J	mg/l	0.00100	0.00017	1	01/09/22 12:26	01/14/22 16:51	EPA 3005A	1,6020B	WP
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	01/09/22 12:26	01/14/22 16:51	EPA 3005A	1,6020B	WP
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	01/09/22 12:26	01/14/22 16:51	EPA 3005A	1,6020B	WP
Iron, Dissolved	0.0550		mg/l	0.0500	0.0191	1	01/09/22 12:26	01/14/22 16:51	EPA 3005A	1,6020B	WP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	01/09/22 12:26	01/14/22 16:51	EPA 3005A	1,6020B	WP
Magnesium, Dissolved	18.0		mg/l	0.0700	0.0242	1	01/09/22 12:26	01/14/22 16:51	EPA 3005A	1,6020B	WP
Manganese, Dissolved	0.1190		mg/l	0.00100	0.00044	1	01/09/22 12:26	01/14/22 16:51	EPA 3005A	1,6020B	WP
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	01/14/22 18:48	01/15/22 14:17	EPA 7470A	1,7470A	NB
Nickel, Dissolved	0.00140	J	mg/l	0.00200	0.00055	1	01/09/22 12:26	01/14/22 16:51	EPA 3005A	1,6020B	WP
Potassium, Dissolved	16.6		mg/l	0.100	0.0309	1	01/09/22 12:26	01/14/22 16:51	EPA 3005A	1,6020B	WP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	01/09/22 12:26	01/14/22 16:51	EPA 3005A	1,6020B	WP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	01/09/22 12:26	01/14/22 16:51	EPA 3005A	1,6020B	WP
Sodium, Dissolved	108.		mg/l	0.100	0.0293	1	01/09/22 12:26	01/14/22 16:51	EPA 3005A	1,6020B	WP
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	01/09/22 12:26	01/14/22 16:51	EPA 3005A	1,6020B	WP
Vanadium, Dissolved	0.00245	J	mg/l	0.00500	0.00157	1	01/09/22 12:26	01/14/22 16:51	EPA 3005A	1,6020B	WP
Zinc, Dissolved	0.00432	JB	mg/l	0.01000	0.00341	1	01/09/22 12:26	01/14/22 16:51	EPA 3005A	1,6020B	WP

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1590445-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	01/05/22 18:10	01/06/22 22:21	1,6020B	SV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	01/05/22 18:10	01/06/22 22:21	1,6020B	SV
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	01/05/22 18:10	01/06/22 22:21	1,6020B	SV
Barium, Total	ND		mg/l	0.00050	0.00017	1	01/05/22 18:10	01/06/22 22:21	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	01/05/22 18:10	01/06/22 22:21	1,6020B	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	01/05/22 18:10	01/06/22 22:21	1,6020B	SV
Calcium, Total	ND		mg/l	0.100	0.0394	1	01/05/22 18:10	01/06/22 22:21	1,6020B	SV
Chromium, Total	ND		mg/l	0.00100	0.00017	1	01/05/22 18:10	01/06/22 22:21	1,6020B	SV
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	01/05/22 18:10	01/06/22 22:21	1,6020B	SV
Copper, Total	ND		mg/l	0.00100	0.00038	1	01/05/22 18:10	01/06/22 22:21	1,6020B	SV
Iron, Total	ND		mg/l	0.0500	0.0191	1	01/05/22 18:10	01/06/22 22:21	1,6020B	SV
Lead, Total	ND		mg/l	0.00100	0.00034	1	01/05/22 18:10	01/06/22 22:21	1,6020B	SV
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	01/05/22 18:10	01/06/22 22:21	1,6020B	SV
Manganese, Total	0.00047	J	mg/l	0.00100	0.00044	1	01/05/22 18:10	01/06/22 22:21	1,6020B	SV
Nickel, Total	ND		mg/l	0.00200	0.00055	1	01/05/22 18:10	01/06/22 22:21	1,6020B	SV
Potassium, Total	ND		mg/l	0.100	0.0309	1	01/05/22 18:10	01/06/22 22:21	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	01/05/22 18:10	01/06/22 22:21	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	01/05/22 18:10	01/06/22 22:21	1,6020B	SV
Sodium, Total	ND		mg/l	0.100	0.0293	1	01/05/22 18:10	01/06/22 22:21	1,6020B	SV
Thallium, Total	0.00023	J	mg/l	0.00100	0.00014	1	01/05/22 18:10	01/06/22 22:21	1,6020B	SV
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	01/05/22 18:10	01/06/22 22:21	1,6020B	SV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	01/05/22 18:10	01/06/22 22:21	1,6020B	SV

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): 01-02 Batch: WG1590449-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	01/05/22 19:38	01/06/22 09:38	1,7470A	AC

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1591327-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	01/09/22 12:26	01/14/22 16:11	1,6020B	WP
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	01/09/22 12:26	01/14/22 16:11	1,6020B	WP
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	01/09/22 12:26	01/14/22 16:11	1,6020B	WP
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	01/09/22 12:26	01/14/22 16:11	1,6020B	WP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	01/09/22 12:26	01/14/22 16:11	1,6020B	WP
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	01/09/22 12:26	01/14/22 16:11	1,6020B	WP
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	01/09/22 12:26	01/14/22 16:11	1,6020B	WP
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	01/09/22 12:26	01/14/22 16:11	1,6020B	WP
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	01/09/22 12:26	01/14/22 16:11	1,6020B	WP
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	01/09/22 12:26	01/14/22 16:11	1,6020B	WP
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	01/09/22 12:26	01/14/22 16:11	1,6020B	WP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	01/09/22 12:26	01/14/22 16:11	1,6020B	WP
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	01/09/22 12:26	01/14/22 16:11	1,6020B	WP
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	01/09/22 12:26	01/14/22 16:11	1,6020B	WP
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	01/09/22 12:26	01/14/22 16:11	1,6020B	WP
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	01/09/22 12:26	01/14/22 16:11	1,6020B	WP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	01/09/22 12:26	01/14/22 16:11	1,6020B	WP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	01/09/22 12:26	01/14/22 16:11	1,6020B	WP
Sodium, Dissolved	0.0318	J	mg/l	0.100	0.0293	1	01/09/22 12:26	01/14/22 16:11	1,6020B	WP
Thallium, Dissolved	0.00015	J	mg/l	0.00100	0.00014	1	01/09/22 12:26	01/14/22 16:11	1,6020B	WP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	01/09/22 12:26	01/14/22 16:11	1,6020B	WP
Zinc, Dissolved	0.01074		mg/l	0.01000	0.00341	1	01/09/22 12:26	01/14/22 16:11	1,6020B	WP

Prep Information

Digestion Method: EPA 3005A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01 Batch: WG1593290-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	01/12/22 16:34	01/12/22 21:01	1,7470A	ZK

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 02 Batch: WG1594201-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	01/14/22 18:48	01/15/22 14:10	1,7470A	NB

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2170846

Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1590445-2								
Aluminum, Total	103		-		80-120	-		
Antimony, Total	86		-		80-120	-		
Arsenic, Total	101		-		80-120	-		
Barium, Total	103		-		80-120	-		
Beryllium, Total	100		-		80-120	-		
Cadmium, Total	104		-		80-120	-		
Calcium, Total	90		-		80-120	-		
Chromium, Total	96		-		80-120	-		
Cobalt, Total	98		-		80-120	-		
Copper, Total	100		-		80-120	-		
Iron, Total	100		-		80-120	-		
Lead, Total	101		-		80-120	-		
Magnesium, Total	105		-		80-120	-		
Manganese, Total	98		-		80-120	-		
Nickel, Total	100		-		80-120	-		
Potassium, Total	101		-		80-120	-		
Selenium, Total	99		-		80-120	-		
Silver, Total	105		-		80-120	-		
Sodium, Total	107		-		80-120	-		
Thallium, Total	100		-		80-120	-		
Vanadium, Total	97		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2170846

Report Date: 01/17/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1590445-2					
Zinc, Total	98	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1590449-2					
Mercury, Total	99	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2170846

Report Date: 01/17/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1591327-2					
Aluminum, Dissolved	103	-	80-120	-	
Antimony, Dissolved	90	-	80-120	-	
Arsenic, Dissolved	102	-	80-120	-	
Barium, Dissolved	101	-	80-120	-	
Beryllium, Dissolved	105	-	80-120	-	
Cadmium, Dissolved	104	-	80-120	-	
Calcium, Dissolved	102	-	80-120	-	
Chromium, Dissolved	97	-	80-120	-	
Cobalt, Dissolved	96	-	80-120	-	
Copper, Dissolved	98	-	80-120	-	
Iron, Dissolved	102	-	80-120	-	
Lead, Dissolved	100	-	80-120	-	
Magnesium, Dissolved	106	-	80-120	-	
Manganese, Dissolved	99	-	80-120	-	
Nickel, Dissolved	99	-	80-120	-	
Potassium, Dissolved	102	-	80-120	-	
Selenium, Dissolved	97	-	80-120	-	
Silver, Dissolved	105	-	80-120	-	
Sodium, Dissolved	102	-	80-120	-	
Thallium, Dissolved	97	-	80-120	-	
Vanadium, Dissolved	97	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1591327-2					
Zinc, Dissolved	99	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1593290-2					
Mercury, Dissolved	95	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1594201-2					
Mercury, Dissolved	98	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1590445-3 QC Sample: L2170195-06 Client ID: MS Sample												
Aluminum, Total	5.60	2	8.01	120		-	-		75-125	-		20
Antimony, Total	0.00533	0.5	0.4265	84		-	-		75-125	-		20
Arsenic, Total	0.02200	0.12	0.1367	96		-	-		75-125	-		20
Barium, Total	1.988	2	3.893	95		-	-		75-125	-		20
Beryllium, Total	0.00045J	0.05	0.05097	102		-	-		75-125	-		20
Cadmium, Total	0.00647	0.053	0.06187	104		-	-		75-125	-		20
Calcium, Total	219.	10	226	**70**	Q	-	-		75-125	-		20
Chromium, Total	0.07998	0.2	0.2717	96		-	-		75-125	-		20
Cobalt, Total	0.01028	0.5	0.4801	94		-	-		75-125	-		20
Copper, Total	0.3824	0.25	0.6326	100		-	-		75-125	-		20
Iron, Total	89.9	1	90.4	**50**	Q	-	-		75-125	-		20
Lead, Total	1.421	0.53	1.890	88		-	-		75-125	-		20
Magnesium, Total	42.9	10	59.5	**166**	Q	-	-		75-125	-		20
Manganese, Total	0.6766	0.5	1.183	101		-	-		75-125	-		20
Nickel, Total	0.03565	0.5	0.5108	95		-	-		75-125	-		20
Potassium, Total	27.8	10	36.5	87		-	-		75-125	-		20
Selenium, Total	0.00186J	0.12	0.109	91		-	-		75-125	-		20
Silver, Total	0.00189	0.05	0.05304	102		-	-		75-125	-		20
Sodium, Total	67.9	10	85.0	**171**	Q	-	-		75-125	-		20
Thallium, Total	0.00054J	0.12	0.1124	94		-	-		75-125	-		20
Vanadium, Total	0.02932	0.5	0.5107	96		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

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): 01-02 QC Batch ID: WG1590445-3 QC Sample: L2170195-06 Client ID: MS Sample										
Zinc, Total	2.168	0.5	3.142	**195**	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1590449-3 QC Sample: L2170195-08 Client ID: MS Sample										
Mercury, Total	0.00009J	0.005	0.00476	95		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1591327-3 QC Sample: L2170846-01 Client ID: SB-16 GW										
Aluminum, Dissolved	ND	2	2.10	105		-	-	75-125	-	20
Antimony, Dissolved	ND	0.5	0.5840	117		-	-	75-125	-	20
Arsenic, Dissolved	0.00156J	0.12	0.1256	105		-	-	75-125	-	20
Barium, Dissolved	0.01723	2	2.088	104		-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.05008	100		-	-	75-125	-	20
Cadmium, Dissolved	ND	0.053	0.05272	99		-	-	75-125	-	20
Calcium, Dissolved	164.	10	171	**70**	Q	-	-	75-125	-	20
Chromium, Dissolved	ND	0.2	0.1905	95		-	-	75-125	-	20
Cobalt, Dissolved	ND	0.5	0.4843	97		-	-	75-125	-	20
Copper, Dissolved	ND	0.25	0.2382	95		-	-	75-125	-	20
Iron, Dissolved	ND	1	0.986	99		-	-	75-125	-	20
Lead, Dissolved	ND	0.53	0.5698	108		-	-	75-125	-	20
Magnesium, Dissolved	490.	10	494	**40**	Q	-	-	75-125	-	20
Manganese, Dissolved	0.00220J	0.5	0.4979	100		-	-	75-125	-	20
Nickel, Dissolved	ND	0.5	0.4759	95		-	-	75-125	-	20
Potassium, Dissolved	132.	10	142	100		-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.105	88		-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.05135	103		-	-	75-125	-	20
Sodium, Dissolved	4020	10	4290	**2700**	Q	-	-	75-125	-	20
Thallium, Dissolved	ND	0.12	0.1229	102		-	-	75-125	-	20
Vanadium, Dissolved	ND	0.5	0.4859	97		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1591327-3 QC Sample: L2170846-01 Client ID: SB-16 GW									
Zinc, Dissolved	ND	0.5	0.4323	86	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1593290-3 QC Sample: L2170846-01 Client ID: SB-16 GW									
Mercury, Dissolved	ND	0.05	0.04654	93	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1594201-3 QC Sample: L2170846-02 Client ID: SB-24 GW									
Mercury, Dissolved	ND	0.005	0.00471	94	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1590445-4 QC Sample: L2170195-06 Client ID: DUP Sample						
Aluminum, Total	5.60	5.40	mg/l	4		20
Antimony, Total	0.00533	0.00533	mg/l	0		20
Arsenic, Total	0.02200	0.02240	mg/l	2		20
Barium, Total	1.988	2.016	mg/l	1		20
Beryllium, Total	0.00045J	0.00043J	mg/l	NC		20
Cadmium, Total	0.00647	0.00648	mg/l	0		20
Calcium, Total	219.	215	mg/l	2		20
Chromium, Total	0.07998	0.08116	mg/l	1		20
Cobalt, Total	0.01028	0.01062	mg/l	3		20
Copper, Total	0.3824	0.3929	mg/l	3		20
Iron, Total	89.9	91.6	mg/l	2		20
Lead, Total	1.421	1.430	mg/l	1		20
Magnesium, Total	42.9	44.1	mg/l	3		20
Manganese, Total	0.6766	0.6788	mg/l	0		20
Nickel, Total	0.03565	0.03643	mg/l	2		20
Potassium, Total	27.8	28.5	mg/l	2		20
Selenium, Total	0.00186J	0.00194J	mg/l	NC		20
Silver, Total	0.00189	0.00178	mg/l	6		20
Sodium, Total	67.9	70.7	mg/l	4		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1590445-4 QC Sample: L2170195-06 Client ID: DUP Sample					
Thallium, Total	0.00054J	0.00106	mg/l	NC	20
Vanadium, Total	0.02932	0.02945	mg/l	0	20
Zinc, Total	2.168	2.194	mg/l	1	20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1590449-4 QC Sample: L2170195-08 Client ID: DUP Sample					
Mercury, Total	0.00009J	0.00013J	mg/l	NC	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1591327-4 QC Sample: L2170846-02 Client ID: SB-24 GW						
Aluminum, Dissolved	0.00437J	0.00336J	mg/l	NC		20
Antimony, Dissolved	0.00105J	0.00181J	mg/l	NC		20
Arsenic, Dissolved	0.00089	0.00098	mg/l	10		20
Barium, Dissolved	0.00337	0.00319	mg/l	6		20
Beryllium, Dissolved	ND	ND	mg/l	NC		20
Cadmium, Dissolved	ND	ND	mg/l	NC		20
Calcium, Dissolved	112.	97.4	mg/l	14		20
Chromium, Dissolved	0.00037J	0.00034J	mg/l	NC		20
Cobalt, Dissolved	ND	ND	mg/l	NC		20
Copper, Dissolved	ND	ND	mg/l	NC		20
Iron, Dissolved	0.0550	0.0689	mg/l	**22**	Q	20
Lead, Dissolved	ND	ND	mg/l	NC		20
Magnesium, Dissolved	18.0	16.4	mg/l	9		20
Manganese, Dissolved	0.1190	0.1120	mg/l	6		20
Nickel, Dissolved	0.00140J	0.00142J	mg/l	NC		20
Potassium, Dissolved	16.6	14.9	mg/l	11		20
Selenium, Dissolved	ND	ND	mg/l	NC		20
Silver, Dissolved	ND	ND	mg/l	NC		20
Sodium, Dissolved	108.	101	mg/l	7		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1591327-4 QC Sample: L2170846-02 Client ID: SB-24 GW					
Thallium, Dissolved	ND	0.00040J	mg/l	NC	20
Vanadium, Dissolved	0.00245J	0.00207J	mg/l	NC	20
Zinc, Dissolved	0.00432JB	0.00411J	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1593290-4 QC Sample: L2170846-01 Client ID: SB-16 GW					
Mercury, Dissolved	ND	ND	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1594201-4 QC Sample: L2170846-02 Client ID: SB-24 GW					
Mercury, Dissolved	ND	ND	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-01
Client ID: SB-16 GW
Sample Location: BROOKLYN, NY

Date Collected: 12/23/21 10:30
Date Received: 12/23/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	01/05/22 15:20	01/05/22 18:40	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/24/21 01:20	12/24/21 01:33	1,7196A	KA

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2170846-02
Client ID: SB-24 GW
Sample Location: BROOKLYN, NY

Date Collected: 12/23/21 11:40
Date Received: 12/23/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	01/05/22 15:20	01/05/22 18:45	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/24/21 01:20	12/24/21 01:33	1,7196A	KA

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2170846
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1587375-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/24/21 01:20	12/24/21 01:31	1,7196A	KA
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1590842-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	01/05/22 15:20	01/05/22 18:02	1,9010C/9012B	CS

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2170846

Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1587375-2								
Chromium, Hexavalent	105		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1590842-2 WG1590842-3								
Cyanide, Total	95		94		85-115	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1587375-4 QC Sample: L2170846-02 Client ID: SB-24 GW												
Chromium, Hexavalent	ND	0.1	0.107	107		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1590842-4 WG1590842-5 QC Sample: L2170846-01 Client ID: SB-16 GW												
Cyanide, Total	ND	0.2	0.171	86		0.172	86		80-120	1		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1587375-3 QC Sample: L2170846-01 Client ID: SB-16 GW						
Chromium, Hexavalent	ND	ND	mg/l	NC		20

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2170846-01A	Vial HCl preserved	A	NA		2.0	Y	Absent		NYTCL-8260(14)
L2170846-01B	Vial HCl preserved	A	NA		2.0	Y	Absent		NYTCL-8260(14)
L2170846-01C	Vial HCl preserved	A	NA		2.0	Y	Absent		NYTCL-8260(14)
L2170846-01D	Amber 120ml unpreserved	A	7	7	2.0	Y	Absent		NYTCL-8081(7)
L2170846-01E	Amber 120ml unpreserved	A	7	7	2.0	Y	Absent		NYTCL-8081(7)
L2170846-01F	Amber 120ml unpreserved	A	7	7	2.0	Y	Absent		NYTCL-8082-LVI(365)
L2170846-01G	Amber 120ml unpreserved	A	7	7	2.0	Y	Absent		NYTCL-8082-LVI(365)
L2170846-01H	Plastic 250ml NaOH preserved	A	>12	>12	2.0	Y	Absent		TCN-9010(14)
L2170846-01I	Plastic 250ml unpreserved	A	7	7	2.0	Y	Absent		HEXCR-7196(1)
L2170846-01J	Amber 250ml unpreserved	A	7	7	2.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2170846-01K	Amber 250ml unpreserved	A	7	7	2.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2170846-01L	Plastic 120ml unpreserved split	A	7	7	2.0	Y	Absent		-
L2170846-01M	Plastic 250ml HNO3 preserved	A	<2	<2	2.0	Y	Absent		FE-6020T(180),SE-6020T(180),BA-6020T(180),TL-6020T(180),CR-6020T(180),NI-6020T(180),CA-6020T(180),K-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),CD-6020T(180),HG-T(28),AL-6020T(180),AG-6020T(180),MG-6020T(180),CO-6020T(180)
L2170846-01X	Plastic 120ml HNO3 preserved Filtrates	A	NA	NA	2.0	Y	Absent		V-6020S(180),K-6020S(180),CU-6020S(180),SE-6020S(180),MN-6020S(180),ZN-6020S(180),CO-6020S(180),MG-6020S(180),BE-6020S(180),CR-6020S(180),CA-6020S(180),FE-6020S(180),NA-6020S(180),NI-6020S(180),TL-6020S(180),PB-6020S(180),BA-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),HG-S(28),AL-6020S(180),CD-6020S(180)

*Values in parentheses indicate holding time in days

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2170846
Report Date: 01/17/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2170846-02A	Vial HCl preserved	A	NA		2.0	Y	Absent		NYTCL-8260(14)
L2170846-02B	Vial HCl preserved	A	NA		2.0	Y	Absent		NYTCL-8260(14)
L2170846-02C	Vial HCl preserved	A	NA		2.0	Y	Absent		NYTCL-8260(14)
L2170846-02D	Amber 120ml unpreserved	A	7	7	2.0	Y	Absent		NYTCL-8081(7)
L2170846-02E	Amber 120ml unpreserved	A	7	7	2.0	Y	Absent		NYTCL-8081(7)
L2170846-02F	Amber 120ml unpreserved	A	7	7	2.0	Y	Absent		NYTCL-8082-LVI(365)
L2170846-02G	Amber 120ml unpreserved	A	7	7	2.0	Y	Absent		NYTCL-8082-LVI(365)
L2170846-02H	Plastic 250ml NaOH preserved	A	>12	>12	2.0	Y	Absent		TCN-9010(14)
L2170846-02I	Plastic 250ml unpreserved	A	7	7	2.0	Y	Absent		-
L2170846-02J	Amber 250ml unpreserved	A	7	7	2.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2170846-02K	Amber 250ml unpreserved	A	7	7	2.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2170846-02L	Plastic 120ml unpreserved split	A	7	7	2.0	Y	Absent		-
L2170846-02M	Plastic 250ml HNO3 preserved	A	<2	<2	2.0	Y	Absent		FE-6020T(180),BA-6020T(180),TL-6020T(180),SE-6020T(180),K-6020T(180),NI-6020T(180),CA-6020T(180),CR-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),HG-T(28),AG-6020T(180),MG-6020T(180),AL-6020T(180),CD-6020T(180),CO-6020T(180)
L2170846-02X	Plastic 120ml HNO3 preserved Filtrates	A	NA	NA	2.0	Y	Absent		CU-6020S(180),SE-6020S(180),K-6020S(180),V-6020S(180),MN-6020S(180),MG-6020S(180),BE-6020S(180),ZN-6020S(180),CO-6020S(180),FE-6020S(180),CR-6020S(180),CA-6020S(180),BA-6020S(180),TL-6020S(180),NA-6020S(180),PB-6020S(180),NI-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),CD-6020S(180),HG-S(28),AL-6020S(180)
L2170846-02X1	Plastic 120ml HNO3 preserved Filtrates	A	NA		2.0	Y	Absent		HG-S(28)
L2170846-03A	Vial HCl preserved	A	NA		2.0	Y	Absent		NYTCL-8260(14)
L2170846-03B	Vial HCl preserved	A	NA		2.0	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	BATTERY PARK	**Lab Number:**	L2170846
Project Number:	20-1152	**Report Date:**	01/17/22

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:	BATTERY PARK	**Lab Number:**	L2170846
Project Number:	20-1152	**Report Date:**	01/17/22

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. 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.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	BATTERY PARK	**Lab Number:**	L2170846
Project Number:	20-1152	**Report Date:**	01/17/22

Data Qualifiers

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.)

Project Name:	BATTERY PARK	**Lab Number:**	L2170846
Project Number:	20-1152	**Report Date:**	01/17/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 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 JERSEY CHAIN OF CUSTODY

ALPHA ANALYTICAL

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TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
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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 of

Date Rec'd in Lab: 12/23/21

ALPHA Job #: L2170846

Client Information
Client:
Address:
Phone:
Fax:
Email:

Project Information
Project Name:
Project Location:
Project #
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☐ Other

Billing Information
☐ Same as Client Info
PO #

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☐ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments:
Please specify Metals or TAL.
Lab filter groundwater samples

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	TCL/TAL 4130	Cyanide	Hexavalent Chromium	Dissolved metals	TCL Herbicides	Total Bottle	Sample Specific Comments
L2170846-01	SB-16 GW	12/23/21	1030	GW	E.W.	✓	✓	✓	✓	✓		Lab filter
-02	SB-24 GW	12/23/21	1140	GW	E.W.	✓	✓	✓	✓	✓		Lab filter
-03	TRIP Blank	12/22/21		-	ES	✓	✓	✓		✓		

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

Container Type											
Preservative											

Relinquished By:	Date/Time	Received By:	Date/Time
	12/23/21 1205		12/23/21 1214
	12/23/21 1615	AAL	12/23 1730
AAL	12/23		12/23
			12/23/21 2250

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: 01-14 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2210610
Client:	Matrix New World Engineering, Inc. 333 West 39th Street, Second Floor New York City, NY 10018
ATTN:	Brian Crespi
Phone:	(212) 324-4251
Project Name:	BPCA
Project Number:	20-1152
Report Date:	03/17/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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

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

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2210610-01	SB22 (0-2)	SOIL	BATTERY PARK	03/01/22 09:15	03/01/22
L2210610-02	SB22 COMP (0-5)	SOIL	BATTERY PARK	03/01/22 11:20	03/01/22

Project Name:	BPCA	**Lab Number:**	L2210610
Project Number:	20-1152	**Report Date:**	03/17/22

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: BPCA
Project Number: 20-1152
Lab Number: L2210610
Report Date: 03/17/22

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.

TCLP Semivolatiles

The WG1614990-2/-3 LCS/LCSD recoveries, associated with L2210610-02, are below the acceptance criteria for pyridine (9%/5%); however, it has been identified as a "difficult" analyte. The results of the associated sample are reported.

Total Metals

L2210610-01: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

Cyanide, Total

The WG1611641-2/-3 LCS/LCSD recoveries for cyanide, total (70%/70%), associated with L2210610-01, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 03/17/22

ORGANICS

VOLATILES

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2210610
Report Date: 03/17/22

SAMPLE RESULTS

Lab ID: L2210610-01
Client ID: SB22 (0-2)
Sample Location: BATTERY PARK

Date Collected: 03/01/22 09:15
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/09/22 21:49
Analyst: AJK
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.0	1.4	1
1,1-Dichloroethane	ND		ug/kg	0.61	0.09	1
Chloroform	ND		ug/kg	0.91	0.09	1
Carbon tetrachloride	ND		ug/kg	0.61	0.14	1
1,2-Dichloropropane	ND		ug/kg	0.61	0.08	1
Dibromochloromethane	ND		ug/kg	0.61	0.09	1
1,1,2-Trichloroethane	ND		ug/kg	0.61	0.16	1
Tetrachloroethene	0.32		ug/kg	0.30	0.12	1
Chlorobenzene	ND		ug/kg	0.30	0.08	1
Trichlorofluoromethane	ND		ug/kg	2.4	0.42	1
1,2-Dichloroethane	ND		ug/kg	0.61	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	0.30	0.10	1
Bromodichloromethane	ND		ug/kg	0.30	0.07	1
trans-1,3-Dichloropropene	ND		ug/kg	0.61	0.16	1
cis-1,3-Dichloropropene	ND		ug/kg	0.30	0.10	1
1,3-Dichloropropene, Total	ND		ug/kg	0.30	0.10	1
1,1-Dichloropropene	ND		ug/kg	0.30	0.10	1
Bromoform	ND		ug/kg	2.4	0.15	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.30	0.10	1
Benzene	ND		ug/kg	0.30	0.10	1
Toluene	ND		ug/kg	0.61	0.33	1
Ethylbenzene	ND		ug/kg	0.61	0.09	1
Chloromethane	ND		ug/kg	2.4	0.56	1
Bromomethane	ND		ug/kg	1.2	0.35	1
Vinyl chloride	ND		ug/kg	0.61	0.20	1
Chloroethane	ND		ug/kg	1.2	0.27	1
1,1-Dichloroethene	ND		ug/kg	0.61	0.14	1
trans-1,2-Dichloroethene	ND		ug/kg	0.91	0.08	1

Project Name: BPCA **Lab Number:** L2210610

Project Number: 20-1152 **Report Date:** 03/17/22

SAMPLE RESULTS

Lab ID: L2210610-01 Date Collected: 03/01/22 09:15

Client ID: SB22 (0-2) Date Received: 03/01/22

Sample Location: BATTERY PARK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.30	0.08	1
1,2-Dichlorobenzene	ND		ug/kg	1.2	0.09	1
1,3-Dichlorobenzene	ND		ug/kg	1.2	0.09	1
1,4-Dichlorobenzene	ND		ug/kg	1.2	0.10	1
Methyl tert butyl ether	ND		ug/kg	1.2	0.12	1
p/m-Xylene	ND		ug/kg	1.2	0.34	1
o-Xylene	ND		ug/kg	0.61	0.18	1
Xylenes, Total	ND		ug/kg	0.61	0.18	1
cis-1,2-Dichloroethene	ND		ug/kg	0.61	0.11	1
1,2-Dichloroethene, Total	ND		ug/kg	0.61	0.08	1
Dibromomethane	ND		ug/kg	1.2	0.14	1
Styrene	ND		ug/kg	0.61	0.12	1
Dichlorodifluoromethane	ND		ug/kg	6.1	0.55	1
Acetone	ND		ug/kg	6.1	2.9	1
Carbon disulfide	ND		ug/kg	6.1	2.8	1
2-Butanone	ND		ug/kg	6.1	1.3	1
Vinyl acetate	ND		ug/kg	6.1	1.3	1
4-Methyl-2-pentanone	ND		ug/kg	6.1	0.78	1
1,2,3-Trichloropropane	ND		ug/kg	1.2	0.08	1
2-Hexanone	ND		ug/kg	6.1	0.72	1
Bromochloromethane	ND		ug/kg	1.2	0.12	1
2,2-Dichloropropane	ND		ug/kg	1.2	0.12	1
1,2-Dibromoethane	ND		ug/kg	0.61	0.17	1
1,3-Dichloropropane	ND		ug/kg	1.2	0.10	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.30	0.08	1
Bromobenzene	ND		ug/kg	1.2	0.09	1
n-Butylbenzene	ND		ug/kg	0.61	0.10	1
sec-Butylbenzene	ND		ug/kg	0.61	0.09	1
tert-Butylbenzene	ND		ug/kg	1.2	0.07	1
o-Chlorotoluene	ND		ug/kg	1.2	0.12	1
p-Chlorotoluene	ND		ug/kg	1.2	0.07	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.8	0.60	1
Hexachlorobutadiene	ND		ug/kg	2.4	0.10	1
Isopropylbenzene	ND		ug/kg	0.61	0.07	1
p-Isopropyltoluene	ND		ug/kg	0.61	0.07	1
Naphthalene	ND		ug/kg	2.4	0.39	1
Acrylonitrile	ND		ug/kg	2.4	0.70	1

Project Name: BPCA **Lab Number:** L2210610

Project Number: 20-1152 **Report Date:** 03/17/22

SAMPLE RESULTS

Lab ID: L2210610-01 Date Collected: 03/01/22 09:15

Client ID: SB22 (0-2) Date Received: 03/01/22

Sample Location: BATTERY PARK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.61	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.2	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.2	0.16	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.2	0.12	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.2	0.20	1
1,4-Dioxane	ND		ug/kg	48	21.	1
p-Diethylbenzene	ND		ug/kg	1.2	0.11	1
p-Ethyltoluene	ND		ug/kg	1.2	0.23	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.2	0.12	1
Ethyl ether	ND		ug/kg	1.2	0.21	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	3.0	0.86	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	130		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	115		70-130

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2210610
Report Date: 03/17/22

SAMPLE RESULTS

Lab ID: L2210610-02
Client ID: SB22 COMP (0-5)
Sample Location: BATTERY PARK

Date Collected: 03/01/22 11:20
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/13/22 19:01
Analyst: MM

TCLP/SPLP Ext. Date: 03/10/22 18:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	98		70-130
dibromofluoromethane	101		70-130

Project Name: BPCA **Lab Number:** L2210610

Project Number: 20-1152 **Report Date:** 03/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/09/22 17:43
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1614183-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: BPCA **Lab Number:** L2210610

Project Number: 20-1152 **Report Date:** 03/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/09/22 17:43
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1614183-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: BPCA **Lab Number:** L2210610

Project Number: 20-1152 **Report Date:** 03/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/09/22 17:43
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1614183-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	106		70-130

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/13/22 16:18
Analyst: MM
TCLP/SPLP Extraction Date: 03/10/22 18:32

Extraction Date: 03/10/22 18:32

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 02 Batch: WG1615143-5					
Chloroform	ND		ug/l	7.5	2.2
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	96		70-130
dibromofluoromethane	100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1614183-3 WG1614183-4								
Methylene chloride	118		116		70-130	2		30
1,1-Dichloroethane	100		99		70-130	1		30
Chloroform	100		100		70-130	0		30
Carbon tetrachloride	100		99		70-130	1		30
1,2-Dichloropropane	106		106		70-130	0		30
Dibromochloromethane	97		101		70-130	4		30
1,1,2-Trichloroethane	115		117		70-130	2		30
Tetrachloroethene	112		113		70-130	1		30
Chlorobenzene	111		110		70-130	1		30
Trichlorofluoromethane	110		108		70-139	2		30
1,2-Dichloroethane	105		106		70-130	1		30
1,1,1-Trichloroethane	104		102		70-130	2		30
Bromodichloromethane	99		100		70-130	1		30
trans-1,3-Dichloropropene	98		98		70-130	0		30
cis-1,3-Dichloropropene	109		110		70-130	1		30
1,1-Dichloropropene	109		108		70-130	1		30
Bromoform	87		92		70-130	6		30
1,1,2,2-Tetrachloroethane	102		108		70-130	6		30
Benzene	108		107		70-130	1		30
Toluene	104		103		70-130	1		30
Ethylbenzene	109		109		70-130	0		30
Chloromethane	88		82		52-130	7		30
Bromomethane	114		104		57-147	9		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1614183-3 WG1614183-4								
Vinyl chloride	102		97		67-130	5		30
Chloroethane	109		104		50-151	5		30
1,1-Dichloroethene	111		107		65-135	4		30
trans-1,2-Dichloroethene	100		99		70-130	1		30
Trichloroethene	111		109		70-130	2		30
1,2-Dichlorobenzene	112		113		70-130	1		30
1,3-Dichlorobenzene	111		112		70-130	1		30
1,4-Dichlorobenzene	113		113		70-130	0		30
Methyl tert butyl ether	112		116		66-130	4		30
p/m-Xylene	109		108		70-130	1		30
o-Xylene	109		109		70-130	0		30
cis-1,2-Dichloroethene	102		102		70-130	0		30
Dibromomethane	101		104		70-130	3		30
Styrene	110		111		70-130	1		30
Dichlorodifluoromethane	94		90		30-146	4		30
Acetone	97		98		54-140	1		30
Carbon disulfide	100		97		59-130	3		30
2-Butanone	83		87		70-130	5		30
Vinyl acetate	87		92		70-130	6		30
4-Methyl-2-pentanone	98		105		70-130	7		30
1,2,3-Trichloropropane	102		106		68-130	4		30
2-Hexanone	91		93		70-130	2		30
Bromochloromethane	105		106		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1614183-3 WG1614183-4								
2,2-Dichloropropane	96		93		70-130	3		30
1,2-Dibromoethane	118		122		70-130	3		30
1,3-Dichloropropane	114		118		69-130	3		30
1,1,1,2-Tetrachloroethane	97		98		70-130	1		30
Bromobenzene	112		112		70-130	0		30
n-Butylbenzene	117		115		70-130	2		30
sec-Butylbenzene	112		110		70-130	2		30
tert-Butylbenzene	110		108		70-130	2		30
o-Chlorotoluene	125		124		70-130	1		30
p-Chlorotoluene	108		109		70-130	1		30
1,2-Dibromo-3-chloropropane	96		101		68-130	5		30
Hexachlorobutadiene	118		114		67-130	3		30
Isopropylbenzene	110		108		70-130	2		30
p-Isopropyltoluene	114		111		70-130	3		30
Naphthalene	109		113		70-130	4		30
Acrylonitrile	85		89		70-130	5		30
n-Propylbenzene	110		109		70-130	1		30
1,2,3-Trichlorobenzene	118		120		70-130	2		30
1,2,4-Trichlorobenzene	122		123		70-130	1		30
1,3,5-Trimethylbenzene	111		110		70-130	1		30
1,2,4-Trimethylbenzene	111		110		70-130	1		30
1,4-Dioxane	95		103		65-136	8		30
p-Diethylbenzene	115		114		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1614183-3 WG1614183-4								
p-Ethyltoluene	111		110		70-130	1		30
1,2,4,5-Tetramethylbenzene	120		117		70-130	3		30
Ethyl ether	105		107		67-130	2		30
trans-1,4-Dichloro-2-butene	86		89		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		95		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	95		93		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 02 Batch: WG1615143-3 WG1615143-4								
Chloroform	82		89		70-130	8		20
Carbon tetrachloride	81		85		63-132	5		20
Tetrachloroethene	85		89		70-130	5		20
Chlorobenzene	84		90		75-130	7		25
1,2-Dichloroethane	87		89		70-130	2		20
Benzene	87		93		70-130	7		25
Vinyl chloride	77		83		55-140	8		20
1,1-Dichloroethene	84		92		61-145	9		25
Trichloroethene	82		88		70-130	7		25
1,4-Dichlorobenzene	85		88		70-130	3		20
2-Butanone	100		100		63-138	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		96		70-130
Toluene-d8	101		103		70-130
4-Bromofluorobenzene	97		97		70-130
dibromofluoromethane	93		94		70-130

SEMIVOLATILES

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2210610
Report Date: 03/17/22

SAMPLE RESULTS

Lab ID: L2210610-01
Client ID: SB22 (0-2)
Sample Location: BATTERY PARK

Date Collected: 03/01/22 09:15
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/15/22 11:14
Analyst: SZ
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 03/14/22 04:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	210	20.	1
1,2-Dichlorobenzene	ND		ug/kg	210	37.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	55.	1
2,4-Dinitrotoluene	ND		ug/kg	210	41.	1
2,6-Dinitrotoluene	ND		ug/kg	210	35.	1
Fluoranthene	360		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	190	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	27.	1
Naphthalene	ND		ug/kg	210	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	71.	1
Butyl benzyl phthalate	ND		ug/kg	210	52.	1
Di-n-butylphthalate	ND		ug/kg	210	39.	1
Di-n-octylphthalate	ND		ug/kg	210	70.	1

Project Name: BPCA **Lab Number:** L2210610

Project Number: 20-1152 **Report Date:** 03/17/22

SAMPLE RESULTS

Lab ID: L2210610-01 Date Collected: 03/01/22 09:15

Client ID: SB22 (0-2) Date Received: 03/01/22

Sample Location: BATTERY PARK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	43.	1
Benzo(a)anthracene	140		ug/kg	120	23.	1
Benzo(a)pyrene	140	J	ug/kg	160	50.	1
Benzo(b)fluoranthene	200		ug/kg	120	35.	1
Benzo(k)fluoranthene	52	J	ug/kg	120	33.	1
Chrysene	150		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	89	J	ug/kg	160	24.	1
Fluorene	22	J	ug/kg	210	20.	1
Phenanthrene	290		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	110	J	ug/kg	160	29.	1
Pyrene	280		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	27.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	86.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	210	68.	1
2-Nitrophenol	ND		ug/kg	450	78.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	990	96.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	99.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: BPCA **Lab Number:** L2210610

Project Number: 20-1152 **Report Date:** 03/17/22

SAMPLE RESULTS

Lab ID: L2210610-01 Date Collected: 03/01/22 09:15

Client ID: SB22 (0-2) Date Received: 03/01/22

Sample Location: BATTERY PARK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	210	63.	1
Carbazole	26	J	ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	31	9.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	60		18-120

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

SAMPLE RESULTS

Lab ID: L2210610-02
Client ID: SB22 COMP (0-5)
Sample Location: BATTERY PARK

Date Collected: 03/01/22 11:20
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/16/22 11:42
Analyst: SLR

Extraction Method: EPA 3510C
Extraction Date: 03/12/22 20:48

TCLP/SPLP Ext. Date: 03/07/22 21:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		21-120
Phenol-d6	75		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	75		10-120
4-Terphenyl-d14	77		33-120

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/16/22 03:23
Analyst: SLR
TCLP/SPLP Extraction Date: 03/07/22 03:30

Extraction Method: EPA 3510C
Extraction Date: 03/12/22 20:45

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 02 Batch: WG1614990-1					
Hexachlorobenzene	ND		ug/l	10	3.4
2,4-Dinitrotoluene	ND		ug/l	25	1.9
Hexachlorobutadiene	ND		ug/l	10	3.0
Hexachloroethane	ND		ug/l	10	2.2
Nitrobenzene	ND		ug/l	10	3.3
2,4,6-Trichlorophenol	ND		ug/l	25	2.5
Pentachlorophenol	ND		ug/l	50	9.8
2-Methylphenol	ND		ug/l	25	5.5
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8
2,4,5-Trichlorophenol	ND		ug/l	25	1.9
Pyridine	ND		ug/l	18	4.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		21-120
Phenol-d6	69		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	59		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	70		33-120

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/15/22 04:30
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 03/13/22 09:55

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1615039-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	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.

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/15/22 04:30
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 03/13/22 09:55

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1615039-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
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	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	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.

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/15/22 04:30
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 03/13/22 09:55

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1615039-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	76.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	89		30-120
2,4,6-Tribromophenol	111		10-136
4-Terphenyl-d14	89		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 02 Batch: WG1614990-2 WG1614990-3								
Hexachlorobenzene	72		72		40-140	0		30
2,4-Dinitrotoluene	92		93		40-132	1		30
Hexachlorobutadiene	53		60		28-111	12		30
Hexachloroethane	70		76		21-105	8		30
Nitrobenzene	100		104		40-140	4		30
2,4,6-Trichlorophenol	77		80		30-130	4		30
Pentachlorophenol	78		78		9-103	0		30
2-Methylphenol	79		82		30-130	4		30
3-Methylphenol/4-Methylphenol	86		88		30-130	2		30
2,4,5-Trichlorophenol	80		81		30-130	1		30
Pyridine	**9**	Q	**5**	Q	10-66	**60**	Q	30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	77		82		21-120
Phenol-d6	82		87		10-120
Nitrobenzene-d5	105		108		23-120
2-Fluorobiphenyl	68		70		15-120
2,4,6-Tribromophenol	85		84		10-120
4-Terphenyl-d14	78		76		33-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1615039-2 WG1615039-3								
Acenaphthene	67		74		31-137	10		50
1,2,4-Trichlorobenzene	69		72		38-107	4		50
Hexachlorobenzene	75		81		40-140	8		50
Bis(2-chloroethyl)ether	60		66		40-140	10		50
2-Chloronaphthalene	70		72		40-140	3		50
1,2-Dichlorobenzene	66		69		40-140	4		50
1,3-Dichlorobenzene	67		72		40-140	7		50
1,4-Dichlorobenzene	64		69		28-104	8		50
3,3'-Dichlorobenzidine	51		60		40-140	16		50
2,4-Dinitrotoluene	71		76		40-132	7		50
2,6-Dinitrotoluene	71		73		40-140	3		50
Fluoranthene	67		75		40-140	11		50
4-Chlorophenyl phenyl ether	67		74		40-140	10		50
4-Bromophenyl phenyl ether	73		78		40-140	7		50
Bis(2-chloroisopropyl)ether	52		55		40-140	6		50
Bis(2-chloroethoxy)methane	64		68		40-117	6		50
Hexachlorobutadiene	83		87		40-140	5		50
Hexachlorocyclopentadiene	62		62		40-140	0		50
Hexachloroethane	70		74		40-140	6		50
Isophorone	64		67		40-140	5		50
Naphthalene	67		71		40-140	6		50
Nitrobenzene	69		74		40-140	7		50
NDPA/DPA	68		75		36-157	10		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1615039-2 WG1615039-3								
n-Nitrosodi-n-propylamine	67		70		32-121	4		50
Bis(2-ethylhexyl)phthalate	80		89		40-140	11		50
Butyl benzyl phthalate	72		81		40-140	12		50
Di-n-butylphthalate	74		84		40-140	13		50
Di-n-octylphthalate	78		86		40-140	10		50
Diethyl phthalate	73		82		40-140	12		50
Dimethyl phthalate	71		73		40-140	3		50
Benzo(a)anthracene	66		77		40-140	15		50
Benzo(a)pyrene	72		84		40-140	15		50
Benzo(b)fluoranthene	70		74		40-140	6		50
Benzo(k)fluoranthene	64		77		40-140	18		50
Chrysene	66		70		40-140	6		50
Acenaphthylene	72		76		40-140	5		50
Anthracene	65		74		40-140	13		50
Benzo(ghi)perylene	64		72		40-140	12		50
Fluorene	66		75		40-140	13		50
Phenanthrene	64		73		40-140	13		50
Dibenzo(a,h)anthracene	65		72		40-140	10		50
Indeno(1,2,3-cd)pyrene	70		80		40-140	13		50
Pyrene	65		74		35-142	13		50
Biphenyl	67		69		37-127	3		50
4-Chloroaniline	60		69		40-140	14		50
2-Nitroaniline	71		69		47-134	3		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1615039-2 WG1615039-3								
3-Nitroaniline	48		60		26-129	22		50
4-Nitroaniline	64		73		41-125	13		50
Dibenzofuran	67		76		40-140	13		50
2-Methylnaphthalene	67		72		40-140	7		50
1,2,4,5-Tetrachlorobenzene	74		75		40-117	1		50
Acetophenone	67		72		14-144	7		50
2,4,6-Trichlorophenol	73		77		30-130	5		50
p-Chloro-m-cresol	78		79		26-103	1		50
2-Chlorophenol	69		72		25-102	4		50
2,4-Dichlorophenol	71		73		30-130	3		50
2,4-Dimethylphenol	72		74		30-130	3		50
2-Nitrophenol	68		69		30-130	1		50
4-Nitrophenol	72		79		11-114	9		50
2,4-Dinitrophenol	67		67		4-130	0		50
4,6-Dinitro-o-cresol	66		69		10-130	4		50
Pentachlorophenol	69		77		17-109	11		50
Phenol	69		72		26-90	4		50
2-Methylphenol	67		70		30-130.	4		50
3-Methylphenol/4-Methylphenol	73		77		30-130	5		50
2,4,5-Trichlorophenol	77		78		30-130	1		50
Benzoic Acid	65		67		10-110	3		50
Benzyl Alcohol	75		79		40-140	5		50
Carbazole	65		73		54-128	12		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1615039-2 WG1615039-3								
1,4-Dioxane	48		54		40-140	12		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	69		74		25-120
Phenol-d6	72		75		10-120
Nitrobenzene-d5	70		72		23-120
2-Fluorobiphenyl	70		73		30-120
2,4,6-Tribromophenol	83		94		10-136
4-Terphenyl-d14	66		73		18-120

PCBS

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2210610
Report Date: 03/17/22

SAMPLE RESULTS

Lab ID: L2210610-01
Client ID: SB22 (0-2)
Sample Location: BATTERY PARK

Date Collected: 03/01/22 09:15
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/15/22 21:52
Analyst: JM
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 03/15/22 01:41
Cleanup Method: EPA 3665A
Cleanup Date: 03/15/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/15/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.6	3.61	1	A
Aroclor 1221	ND		ug/kg	40.6	4.07	1	A
Aroclor 1232	ND		ug/kg	40.6	8.61	1	A
Aroclor 1242	ND		ug/kg	40.6	5.48	1	A
Aroclor 1248	ND		ug/kg	40.6	6.09	1	A
Aroclor 1254	ND		ug/kg	40.6	4.44	1	A
Aroclor 1260	ND		ug/kg	40.6	7.51	1	B
Aroclor 1262	ND		ug/kg	40.6	5.16	1	A
Aroclor 1268	ND		ug/kg	40.6	4.21	1	A
PCBs, Total	ND		ug/kg	40.6	3.61	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/15/22 14:19
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 03/15/22 01:41
Cleanup Method: EPA 3665A
Cleanup Date: 03/15/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/15/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1615608-1						
Aroclor 1016	ND		ug/kg	31.9	2.83	A
Aroclor 1221	ND		ug/kg	31.9	3.19	A
Aroclor 1232	ND		ug/kg	31.9	6.76	A
Aroclor 1242	ND		ug/kg	31.9	4.30	A
Aroclor 1248	ND		ug/kg	31.9	4.78	A
Aroclor 1254	ND		ug/kg	31.9	3.49	A
Aroclor 1260	ND		ug/kg	31.9	5.89	A
Aroclor 1262	ND		ug/kg	31.9	4.05	A
Aroclor 1268	ND		ug/kg	31.9	3.30	A
PCBs, Total	ND		ug/kg	31.9	2.83	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	86		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1615608-2 WG1615608-3									
Aroclor 1016	70		76		40-140	8		50	A
Aroclor 1260	75		80		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		68		30-150	A
Decachlorobiphenyl	73		79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		74		30-150	B
Decachlorobiphenyl	79		81		30-150	B

PESTICIDES

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2210610
Report Date: 03/17/22

SAMPLE RESULTS

Lab ID: L2210610-01
Client ID: SB22 (0-2)
Sample Location: BATTERY PARK

Date Collected: 03/01/22 09:15
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/15/22 11:40
Analyst: AR
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 03/14/22 13:36
Cleanup Method: EPA 3620B
Cleanup Date: 03/15/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.92	0.376	1	A
Lindane	ND		ug/kg	0.799	0.357	1	A
Alpha-BHC	ND		ug/kg	0.799	0.227	1	A
Beta-BHC	ND		ug/kg	1.92	0.727	1	A
Heptachlor	ND		ug/kg	0.959	0.430	1	A
Aldrin	ND		ug/kg	1.92	0.675	1	A
Heptachlor epoxide	ND		ug/kg	3.60	1.08	1	A
Endrin	ND		ug/kg	0.799	0.328	1	A
Endrin aldehyde	ND		ug/kg	2.40	0.839	1	A
Endrin ketone	ND		ug/kg	1.92	0.494	1	A
Dieldrin	2.79		ug/kg	1.20	0.599	1	B
4,4'-DDE	5.37		ug/kg	1.92	0.444	1	B
4,4'-DDD	0.726	J	ug/kg	1.92	0.684	1	A
4,4'-DDT	2.78	JP	ug/kg	3.60	1.54	1	B
Endosulfan I	ND		ug/kg	1.92	0.453	1	A
Endosulfan II	ND		ug/kg	1.92	0.641	1	A
Endosulfan sulfate	ND		ug/kg	0.799	0.380	1	A
Methoxychlor	ND		ug/kg	3.60	1.12	1	A
Toxaphene	ND		ug/kg	36.0	10.1	1	A
cis-Chlordane	7.10	IP	ug/kg	2.40	0.668	1	B
trans-Chlordane	3.34		ug/kg	2.40	0.633	1	B
Chlordane	ND		ug/kg	16.0	6.35	1	A

Project Name: BPCA **Lab Number:** L2210610

Project Number: 20-1152 **Report Date:** 03/17/22

SAMPLE RESULTS

Lab ID: L2210610-01 Date Collected: 03/01/22 09:15

Client ID: SB22 (0-2) Date Received: 03/01/22

Sample Location: BATTERY PARK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	92		30-150	B

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

SAMPLE RESULTS

Lab ID: L2210610-02
Client ID: SB22 COMP (0-5)
Sample Location: BATTERY PARK

Date Collected: 03/01/22 11:20
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/13/22 17:13
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 03/12/22 23:07

TCLP/SPLP Ext. Date: 03/07/22 21:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Pesticides by EPA 1311 - Westborough Lab							
Lindane	ND		ug/l	0.100	0.022	1	A
Heptachlor	ND		ug/l	0.100	0.016	1	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	1	A
Endrin	ND		ug/l	0.200	0.021	1	A
Methoxychlor	ND		ug/l	1.00	0.034	1	A
Toxaphene	ND		ug/l	1.00	0.314	1	A
Chlordane	ND		ug/l	1.00	0.232	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

SAMPLE RESULTS

Lab ID: L2210610-02
Client ID: SB22 COMP (0-5)
Sample Location: BATTERY PARK

Date Collected: 03/01/22 11:20
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/14/22 16:07
Analyst: AKM

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 07:25

TCLP/SPLP Ext. Date: 03/07/22 21:56
Methylation Date: 03/13/22 11:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Herbicides by EPA 1311 - Westborough Lab							
2,4-D	ND		mg/l	0.025	0.001	1	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	54		30-150	A
DCAA	52		30-150	B

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 03/14/22 13:39
Analyst: EJL
TCLP/SPLP Extraction Date: 03/07/22 03:30
Methylation Date: 03/13/22 11:38

Extraction Method: EPA 8151A
Extraction Date: 03/12/22 07:25

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Herbicides by EPA 1311 - Westborough Lab for sample(s): 02 Batch: WG1614860-1						
2,4-D	ND		mg/l	0.025	0.001	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	55		30-150	A
DCAA	52		30-150	B

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/13/22 14:12
Analyst: JAW
TCLP/SPLP Extraction Date: 03/07/22 03:30

Extraction Method: EPA 3510C
Extraction Date: 03/12/22 23:06

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Pesticides by EPA 1311 - Westborough Lab for sample(s): 02 Batch: WG1614994-1						
Lindane	ND		ug/l	0.100	0.022	A
Heptachlor	ND		ug/l	0.100	0.016	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	A
Endrin	ND		ug/l	0.200	0.021	A
Methoxychlor	ND		ug/l	1.00	0.034	A
Toxaphene	ND		ug/l	1.00	0.314	A
Chlordane	ND		ug/l	1.00	0.232	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/15/22 11:07
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 03/14/22 13:36
Cleanup Method: EPA 3620B
Cleanup Date: 03/15/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1615420-1						
Delta-BHC	ND		ug/kg	1.56	0.305	A
Lindane	ND		ug/kg	0.650	0.290	A
Alpha-BHC	ND		ug/kg	0.650	0.184	A
Beta-BHC	ND		ug/kg	1.56	0.591	A
Heptachlor	ND		ug/kg	0.780	0.350	A
Aldrin	ND		ug/kg	1.56	0.549	A
Heptachlor epoxide	ND		ug/kg	2.92	0.877	A
Endrin	ND		ug/kg	0.650	0.266	A
Endrin aldehyde	ND		ug/kg	1.95	0.682	A
Endrin ketone	ND		ug/kg	1.56	0.402	A
Dieldrin	ND		ug/kg	0.975	0.487	A
4,4'-DDE	ND		ug/kg	1.56	0.361	A
4,4'-DDD	ND		ug/kg	1.56	0.556	A
4,4'-DDT	ND		ug/kg	2.92	1.25	A
Endosulfan I	ND		ug/kg	1.56	0.368	A
Endosulfan II	ND		ug/kg	1.56	0.521	A
Endosulfan sulfate	ND		ug/kg	0.650	0.309	A
Methoxychlor	ND		ug/kg	2.92	0.910	A
Toxaphene	ND		ug/kg	29.2	8.19	A
cis-Chlordane	ND		ug/kg	1.95	0.543	A
trans-Chlordane	ND		ug/kg	1.95	0.515	A
Chlordane	ND		ug/kg	13.0	5.16	A

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/15/22 11:07
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 03/14/22 13:36
Cleanup Method: EPA 3620B
Cleanup Date: 03/15/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1615420-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	101		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Herbicides by EPA 1311 - Westborough Lab Associated sample(s): 02 Batch: WG1614860-2 WG1614860-3									
2,4-D	102		105		30-150	3		25	A
2,4,5-TP (Silvex)	57		59		30-150	3		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	70		81		30-150	A
DCAA	86		96		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Pesticides by EPA 1311 - Westborough Lab Associated sample(s): 02 Batch: WG1614994-2 WG1614994-3									
Lindane	80		70		30-150	13		20	A
Heptachlor	85		74		30-150	13		20	A
Heptachlor epoxide	86		76		30-150	12		20	A
Endrin	88		77		30-150	13		20	A
Methoxychlor	91		82		30-150	10		20	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		70		30-150	A
Decachlorobiphenyl	67		68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	97		80		30-150	B
Decachlorobiphenyl	85		76		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BPCA

Project Number: 20-1152

Lab Number: L2210610

Report Date: 03/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1615420-2 WG1615420-3									
Delta-BHC	50		52		30-150	4		30	A
Lindane	82		86		30-150	5		30	A
Alpha-BHC	79		84		30-150	6		30	A
Beta-BHC	74		79		30-150	7		30	A
Heptachlor	86		93		30-150	8		30	A
Aldrin	80		85		30-150	6		30	A
Heptachlor epoxide	67		73		30-150	9		30	A
Endrin	82		87		30-150	6		30	A
Endrin aldehyde	46		47		30-150	2		30	A
Endrin ketone	67		66		30-150	2		30	A
Dieldrin	85		89		30-150	5		30	A
4,4'-DDE	77		81		30-150	5		30	A
4,4'-DDD	84		90		30-150	7		30	A
4,4'-DDT	87		90		30-150	3		30	A
Endosulfan I	77		81		30-150	5		30	A
Endosulfan II	78		80		30-150	3		30	A
Endosulfan sulfate	42		43		30-150	2		30	A
Methoxychlor	84		87		30-150	4		30	A
cis-Chlordane	69		73		30-150	6		30	A
trans-Chlordane	81		86		30-150	6		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

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

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1615420-2 WG1615420-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		66		30-150	A
Decachlorobiphenyl	85		90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		70		30-150	B
Decachlorobiphenyl	97		102		30-150	B

METALS

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2210610
Report Date: 03/17/22

SAMPLE RESULTS

Lab ID: L2210610-01
Client ID: SB22 (0-2)
Sample Location: BATTERY PARK
Date Collected: 03/01/22 09:15
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3420		mg/kg	9.92	2.68	2	03/11/22 06:20	03/14/22 19:46	EPA 3050B	1,6010D	EW
Antimony, Total	ND		mg/kg	4.96	0.377	2	03/11/22 06:20	03/14/22 19:46	EPA 3050B	1,6010D	EW
Arsenic, Total	2.36		mg/kg	0.992	0.206	2	03/11/22 06:20	03/14/22 19:46	EPA 3050B	1,6010D	EW
Barium, Total	24.0		mg/kg	0.992	0.173	2	03/11/22 06:20	03/14/22 19:46	EPA 3050B	1,6010D	EW
Beryllium, Total	0.079	J	mg/kg	0.496	0.033	2	03/11/22 06:20	03/14/22 19:46	EPA 3050B	1,6010D	EW
Cadmium, Total	0.159	J	mg/kg	0.992	0.097	2	03/11/22 06:20	03/14/22 19:46	EPA 3050B	1,6010D	EW
Calcium, Total	5600		mg/kg	9.92	3.47	2	03/11/22 06:20	03/14/22 19:46	EPA 3050B	1,6010D	EW
Chromium, Total	6.49		mg/kg	0.992	0.095	2	03/11/22 06:20	03/14/22 19:46	EPA 3050B	1,6010D	EW
Cobalt, Total	2.31		mg/kg	1.98	0.165	2	03/11/22 06:20	03/14/22 19:46	EPA 3050B	1,6010D	EW
Copper, Total	10.2		mg/kg	0.992	0.256	2	03/11/22 06:20	03/14/22 19:46	EPA 3050B	1,6010D	EW
Iron, Total	5060		mg/kg	4.96	0.896	2	03/11/22 06:20	03/14/22 19:46	EPA 3050B	1,6010D	EW
Lead, Total	18.4		mg/kg	4.96	0.266	2	03/11/22 06:20	03/14/22 19:46	EPA 3050B	1,6010D	EW
Magnesium, Total	1840		mg/kg	9.92	1.53	2	03/11/22 06:20	03/14/22 19:46	EPA 3050B	1,6010D	EW
Manganese, Total	122		mg/kg	0.992	0.158	2	03/11/22 06:20	03/14/22 19:46	EPA 3050B	1,6010D	EW
Mercury, Total	ND		mg/kg	0.081	0.053	1	03/11/22 08:45	03/14/22 14:23	EPA 7471B	1,7471B	ZK
Nickel, Total	4.65		mg/kg	2.48	0.240	2	03/11/22 06:20	03/14/22 19:46	EPA 3050B	1,6010D	EW
Potassium, Total	280		mg/kg	248	14.3	2	03/11/22 06:20	03/14/22 19:46	EPA 3050B	1,6010D	EW
Selenium, Total	ND		mg/kg	1.98	0.256	2	03/11/22 06:20	03/14/22 19:46	EPA 3050B	1,6010D	EW
Silver, Total	ND		mg/kg	0.992	0.281	2	03/11/22 06:20	03/14/22 19:46	EPA 3050B	1,6010D	EW
Sodium, Total	21.0	J	mg/kg	198	3.12	2	03/11/22 06:20	03/14/22 19:46	EPA 3050B	1,6010D	EW
Thallium, Total	ND		mg/kg	1.98	0.312	2	03/11/22 06:20	03/14/22 19:46	EPA 3050B	1,6010D	EW
Vanadium, Total	8.52		mg/kg	0.992	0.201	2	03/11/22 06:20	03/14/22 19:46	EPA 3050B	1,6010D	EW
Zinc, Total	33.8		mg/kg	4.96	0.291	2	03/11/22 06:20	03/14/22 19:46	EPA 3050B	1,6010D	EW

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2210610
Report Date: 03/17/22

SAMPLE RESULTS

Lab ID: L2210610-02
Client ID: SB22 COMP (0-5)
Sample Location: BATTERY PARK
Sample Depth:
Matrix: Soil

Date Collected: 03/01/22 11:20
Date Received: 03/01/22
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 03/07/22 21:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	03/11/22 09:58	03/16/22 21:55	EPA 3015	1,6010D	MC
Barium, TCLP	0.391	J	mg/l	0.500	0.021	1	03/11/22 09:58	03/16/22 21:55	EPA 3015	1,6010D	MC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	03/11/22 09:58	03/16/22 21:55	EPA 3015	1,6010D	MC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	03/11/22 09:58	03/16/22 21:55	EPA 3015	1,6010D	MC
Lead, TCLP	ND		mg/l	0.500	0.027	1	03/11/22 09:58	03/16/22 21:55	EPA 3015	1,6010D	MC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	03/11/22 08:50	03/14/22 17:04	EPA 7470A	1,7470A	ZK
Selenium, TCLP	ND		mg/l	0.500	0.035	1	03/11/22 09:58	03/16/22 21:55	EPA 3015	1,6010D	MC
Silver, TCLP	ND		mg/l	0.100	0.028	1	03/11/22 09:58	03/16/22 21:55	EPA 3015	1,6010D	MC

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2210610
Report Date: 03/17/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1614165-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	03/11/22 06:20	03/14/22 12:29	1,6010D	EW
Antimony, Total	ND		mg/kg	2.00	0.152	1	03/11/22 06:20	03/14/22 12:29	1,6010D	EW
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/11/22 06:20	03/14/22 12:29	1,6010D	EW
Barium, Total	ND		mg/kg	0.400	0.070	1	03/11/22 06:20	03/14/22 12:29	1,6010D	EW
Beryllium, Total	ND		mg/kg	0.200	0.013	1	03/11/22 06:20	03/14/22 12:29	1,6010D	EW
Cadmium, Total	ND		mg/kg	0.400	0.039	1	03/11/22 06:20	03/14/22 12:29	1,6010D	EW
Calcium, Total	ND		mg/kg	4.00	1.40	1	03/11/22 06:20	03/14/22 12:29	1,6010D	EW
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/11/22 06:20	03/14/22 12:29	1,6010D	EW
Cobalt, Total	ND		mg/kg	0.800	0.066	1	03/11/22 06:20	03/14/22 12:29	1,6010D	EW
Copper, Total	ND		mg/kg	0.400	0.103	1	03/11/22 06:20	03/14/22 12:29	1,6010D	EW
Iron, Total	ND		mg/kg	2.00	0.361	1	03/11/22 06:20	03/14/22 12:29	1,6010D	EW
Lead, Total	ND		mg/kg	2.00	0.107	1	03/11/22 06:20	03/14/22 12:29	1,6010D	EW
Magnesium, Total	ND		mg/kg	4.00	0.616	1	03/11/22 06:20	03/14/22 12:29	1,6010D	EW
Manganese, Total	ND		mg/kg	0.400	0.064	1	03/11/22 06:20	03/14/22 12:29	1,6010D	EW
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/11/22 06:20	03/14/22 12:29	1,6010D	EW
Potassium, Total	ND		mg/kg	100	5.76	1	03/11/22 06:20	03/14/22 12:29	1,6010D	EW
Selenium, Total	ND		mg/kg	0.800	0.103	1	03/11/22 06:20	03/14/22 12:29	1,6010D	EW
Silver, Total	ND		mg/kg	0.400	0.113	1	03/11/22 06:20	03/14/22 12:29	1,6010D	EW
Sodium, Total	ND		mg/kg	80.0	1.26	1	03/11/22 06:20	03/14/22 12:29	1,6010D	EW
Thallium, Total	ND		mg/kg	0.800	0.126	1	03/11/22 06:20	03/14/22 12:29	1,6010D	EW
Vanadium, Total	ND		mg/kg	0.400	0.081	1	03/11/22 06:20	03/14/22 12:29	1,6010D	EW
Zinc, Total	ND		mg/kg	2.00	0.117	1	03/11/22 06:20	03/14/22 12:29	1,6010D	EW

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1614169-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	03/11/22 08:45	03/14/22 13:30	1,7471B	ZK

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2210610
Report Date: 03/17/22

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 02 Batch: WG1614180-1										
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	03/11/22 09:58	03/16/22 21:35	1,6010D	MC
Barium, TCLP	0.032	J	mg/l	0.500	0.021	1	03/11/22 09:58	03/16/22 21:35	1,6010D	MC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	03/11/22 09:58	03/16/22 21:35	1,6010D	MC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	03/11/22 09:58	03/16/22 21:35	1,6010D	MC
Lead, TCLP	ND		mg/l	0.500	0.027	1	03/11/22 09:58	03/16/22 21:35	1,6010D	MC
Selenium, TCLP	ND		mg/l	0.500	0.035	1	03/11/22 09:58	03/16/22 21:35	1,6010D	MC
Silver, TCLP	ND		mg/l	0.100	0.028	1	03/11/22 09:58	03/16/22 21:35	1,6010D	MC

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 03/07/22 03:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 02 Batch: WG1614181-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	03/11/22 08:50	03/14/22 16:23	1,7470A	ZK

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 03/07/22 03:30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BPCA

Project Number: 20-1152

Lab Number: L2210610

Report Date: 03/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1614165-2 SRM Lot Number: D113-540								
Aluminum, Total	83		-		51-149	-		
Antimony, Total	142		-		20-250	-		
Arsenic, Total	104		-		70-130	-		
Barium, Total	98		-		75-125	-		
Beryllium, Total	96		-		75-125	-		
Cadmium, Total	98		-		75-125	-		
Calcium, Total	98		-		73-128	-		
Chromium, Total	100		-		70-130	-		
Cobalt, Total	102		-		75-125	-		
Copper, Total	103		-		75-125	-		
Iron, Total	112		-		36-164	-		
Lead, Total	101		-		72-128	-		
Magnesium, Total	90		-		63-138	-		
Manganese, Total	97		-		77-123	-		
Nickel, Total	99		-		70-130	-		
Potassium, Total	88		-		59-141	-		
Selenium, Total	104		-		66-134	-		
Silver, Total	104		-		70-131	-		
Sodium, Total	86		-		35-164	-		
Thallium, Total	98		-		70-130	-		
Vanadium, Total	101		-		74-126	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1614165-2 SRM Lot Number: D113-540					
Zinc, Total	100	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1614169-2 SRM Lot Number: D113-540					
Mercury, Total	92	-	60-140	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 Batch: WG1614180-2					
Arsenic, TCLP	105	-	75-125	-	20
Barium, TCLP	101	-	75-125	-	20
Cadmium, TCLP	101	-	75-125	-	20
Chromium, TCLP	100	-	75-125	-	20
Lead, TCLP	100	-	75-125	-	20
Selenium, TCLP	103	-	75-125	-	20
Silver, TCLP	102	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 Batch: WG1614181-2					
Mercury, TCLP	97	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1614165-3 QC Sample: L2210261-12 Client ID: MS Sample												
Aluminum, Total	13600	156	13600	**0**	Q	-	-		75-125	-		20
Antimony, Total	ND	38.9	15.8	**40**	Q	-	-		75-125	-		20
Arsenic, Total	0.586J	9.34	6.91	**74**	Q	-	-		75-125	-		20
Barium, Total	118	156	228	**71**	Q	-	-		75-125	-		20
Beryllium, Total	1.26	3.89	3.36	**54**	Q	-	-		75-125	-		20
Cadmium, Total	ND	4.13	2.21	**54**	Q	-	-		75-125	-		20
Calcium, Total	138000	778	128000	**0**	Q	-	-		75-125	-		20
Chromium, Total	8.81	15.6	17.8	**58**	Q	-	-		75-125	-		20
Cobalt, Total	1.88	38.9	21.2	**50**	Q	-	-		75-125	-		20
Copper, Total	3.20	19.5	15.9	**65**	Q	-	-		75-125	-		20
Iron, Total	2750	77.8	2960	**270**	Q	-	-		75-125	-		20
Lead, Total	5.59	41.3	32.9	**66**	Q	-	-		75-125	-		20
Magnesium, Total	9980	778	10400	**54**	Q	-	-		75-125	-		20
Manganese, Total	344	38.9	366	**56**	Q	-	-		75-125	-		20
Nickel, Total	2.03	38.9	21.4	**50**	Q	-	-		75-125	-		20
Potassium, Total	1620	778	2110	**63**	Q	-	-		75-125	-		20
Selenium, Total	0.677J	9.34	6.64	**71**	Q	-	-		75-125	-		20
Silver, Total	0.259J	23.4	17.0	**73**	Q	-	-		75-125	-		20
Sodium, Total	1250	778	1720	**60**	Q	-	-		75-125	-		20
Thallium, Total	ND	9.34	4.94	**53**	Q	-	-		75-125	-		20
Vanadium, Total	5.53	38.9	26.7	**54**	Q	-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1614165-3 QC Sample: L2210261-12 Client ID: MS Sample										
Zinc, Total	42.4	38.9	37.6	**0**	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1614169-3 QC Sample: L2210261-12 Client ID: MS Sample										
Mercury, Total	0.174	0.128	0.362	**146**	Q	-	-	80-120	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1614180-3 QC Sample: L2210211-01 Client ID: MS Sample										
Arsenic, TCLP	ND	1.2	1.25	104		-	-	75-125	-	20
Barium, TCLP	1.26	20	21.4	101		-	-	75-125	-	20
Cadmium, TCLP	ND	0.53	0.518	98		-	-	75-125	-	20
Chromium, TCLP	ND	2	1.99	100		-	-	75-125	-	20
Lead, TCLP	ND	5.3	5.17	98		-	-	75-125	-	20
Selenium, TCLP	ND	1.2	1.21	101		-	-	75-125	-	20
Silver, TCLP	ND	0.5	0.514	103		-	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1614181-3 QC Sample: L2210211-01 Client ID: MS Sample										
Mercury, TCLP	ND	0.025	0.0238	95		-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1614165-4 QC Sample: L2210261-12 Client ID: DUP Sample						
Aluminum, Total	13600	12800	mg/kg	6		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	0.586J	0.697J	mg/kg	NC		20
Barium, Total	118	121	mg/kg	3		20
Beryllium, Total	1.26	1.21	mg/kg	4		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Chromium, Total	8.81	8.08	mg/kg	9		20
Cobalt, Total	1.88	1.78	mg/kg	5		20
Copper, Total	3.20	3.20	mg/kg	0		20
Iron, Total	2750	2650	mg/kg	4		20
Lead, Total	5.59	5.91	mg/kg	6		20
Magnesium, Total	9980	9450	mg/kg	5		20
Manganese, Total	344	319	mg/kg	8		20
Nickel, Total	2.03	1.78J	mg/kg	NC		20
Selenium, Total	0.677J	0.635J	mg/kg	NC		20
Silver, Total	0.259J	0.276J	mg/kg	NC		20
Sodium, Total	1250	1130	mg/kg	10		20
Thallium, Total	ND	ND	mg/kg	NC		20
Vanadium, Total	5.53	4.97	mg/kg	11		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1614165-4 QC Sample: L2210261-12 Client ID: DUP Sample						
Zinc, Total	42.4	39.1	mg/kg	8		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1614165-4 QC Sample: L2210261-12 Client ID: DUP Sample						
Potassium, Total	1620	1460	mg/kg	10		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1614165-4 QC Sample: L2210261-12 Client ID: DUP Sample						
Calcium, Total	138000	104000	mg/kg	**28**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1614169-4 QC Sample: L2210261-12 Client ID: DUP Sample						
Mercury, Total	0.174	0.200	mg/kg	14		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1614180-4 QC Sample: L2210211-01 Client ID: DUP Sample						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Barium, TCLP	1.26	1.27	mg/l	1		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	ND	ND	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1614181-4 QC Sample: L2210211-01 Client ID: DUP Sample						
Mercury, TCLP	ND	ND	mg/l	NC		20

Project Name: BPCA
Project Number: 20-1152

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2210610
Report Date: 03/17/22

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1614165-6 QC Sample: L2210261-12 Client ID: DUP Sample						
Aluminum, Total	13600	20200	mg/kg	**49**	Q	20
Barium, Total	118	180	mg/kg	**53**	Q	20
Iron, Total	2750	4270	mg/kg	**55**	Q	20
Magnesium, Total	9980	15400	mg/kg	**54**	Q	20
Manganese, Total	344	536	mg/kg	**56**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1614165-6 QC Sample: L2210261-12 Client ID: DUP Sample						
Calcium, Total	138000	236000	mg/kg	**71**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

SAMPLE RESULTS

Lab ID: L2210610-02
Client ID: SB22 COMP (0-5)
Sample Location: BATTERY PARK

Date Collected: 03/01/22 11:20
Date Received: 03/01/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Sand
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	03/11/22 14:45	1,1030	MD

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

SAMPLE RESULTS

Lab ID: L2210610-01
Client ID: SB22 (0-2)
Sample Location: BATTERY PARK

Date Collected: 03/01/22 09:15
Date Received: 03/01/22
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	79.0		%	0.100	NA	1	-	03/02/22 12:24	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	03/04/22 11:40	03/04/22 14:45	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	1.01	0.202	1	03/11/22 14:30	03/15/22 15:17	1,7196A	NL

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

SAMPLE RESULTS

Lab ID: L2210610-02
Client ID: SB22 COMP (0-5)
Sample Location: BATTERY PARK

Date Collected: 03/01/22 11:20
Date Received: 03/01/22
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										
pH (H)	8.4		SU	-	NA	1	-	03/12/22 06:39	1,9045D	DT
Cyanide, Reactive	ND		mg/kg	10	10.	1	03/14/22 15:20	03/14/22 17:28	125,7.3	MJ
Sulfide, Reactive	ND		mg/kg	10	10.	1	03/14/22 15:20	03/14/22 16:58	125,7.3	MJ

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2210610
Report Date: 03/17/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1611641-1										
Cyanide, Total	ND		mg/kg	0.94	0.20	1	03/04/22 11:40	03/04/22 14:18	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1614710-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	03/11/22 14:30	03/15/22 15:17	1,7196A	NL
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1615413-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	03/14/22 15:20	03/14/22 16:56	125,7.3	MJ
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1615419-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	03/14/22 15:20	03/14/22 17:26	125,7.3	MJ

Lab Control Sample Analysis

Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1611641-2 WG1611641-3								
Cyanide, Total	**70**	Q	**70**	Q	80-120	6		35
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1614710-2								
Chromium, Hexavalent	111		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1614841-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1615413-2								
Sulfide, Reactive	84		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1615419-2								
Cyanide, Reactive	75		-		30-125	-		40

Matrix Spike Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1611641-4 WG1611641-5 QC Sample: L2210943-01 Client ID: MS Sample												
Cyanide, Total	ND	11	9.3	86		9.1	83		75-125	2		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1614710-4 QC Sample: L2210610-01 Client ID: SB22 (0-2)												
Chromium, Hexavalent	ND	1080	975	90		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1610618-1 QC Sample: L2210550-05 Client ID: DUP Sample						
Solids, Total	82.3	81.5	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1614710-6 QC Sample: L2210610-01 Client ID: SB22 (0-2)						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1614841-2 QC Sample: L2212106-01 Client ID: DUP Sample						
pH	6.9	6.9	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1615413-3 QC Sample: L2210610-02 Client ID: SB22 COMP (0-5)						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1615419-3 QC Sample: L2210610-02 Client ID: SB22 COMP (0-5)						
Cyanide, Reactive	ND	ND	mg/kg	NC		40

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2210610
Report Date: 03/17/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2210610-01A	Vial MeOH preserved	A	NA		2.0	Y	Absent		NYTCL-8260HLW(14)
L2210610-01B	Vial water preserved	A	NA		2.0	Y	Absent	02-MAR-22 01:12	NYTCL-8260HLW(14)
L2210610-01C	Vial water preserved	A	NA		2.0	Y	Absent	02-MAR-22 01:12	NYTCL-8260HLW(14)
L2210610-01D	Plastic 2oz unpreserved for TS	A	NA		2.0	Y	Absent		TS(7)
L2210610-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.0	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),CU-TI(180),SE-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),FE-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2210610-01F	Glass 120ml/4oz unpreserved	A	NA		2.0	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210610-01G	Glass 250ml/8oz unpreserved	A	NA		2.0	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2210610-02A	Vial Large Septa unpreserved (4oz)	A	NA		2.0	Y	Absent		TCLP-EXT-ZHE(14)
L2210610-02B	Glass 500ml/16oz unpreserved	A	NA		2.0	Y	Absent		IGNIT-1030(14),REACTS(14),PH-9045(1),REACTCN(14)
L2210610-02W	Amber 1000ml unpreserved Extracts	A	NA		2.0	Y	Absent		TCLP-8270(14),PEST-TCLP*(14),HERB-TCLP*(14)
L2210610-02X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.0	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2210610-02X9	Tumble Vessel	A	NA		2.0	Y	Absent		-
L2210610-02Y	Vial unpreserved Extracts	A	NA		2.0	Y	Absent		TCLP-VOA(14)
L2210610-02Z	Vial unpreserved Extracts	A	NA		2.0	Y	Absent		TCLP-VOA(14)

*Values in parentheses indicate holding time in days

Project Name:	BPCA	**Lab Number:**	L2210610
Project Number:	20-1152	**Report Date:**	03/17/22

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:	BPCA	**Lab Number:**	L2210610
Project Number:	20-1152	**Report Date:**	03/17/22

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. 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.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	BPCA	**Lab Number:**	L2210610
Project Number:	20-1152	**Report Date:**	03/17/22

Data Qualifiers

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:	BPCA	**Lab Number:**	L2210610
Project Number:	20-1152	**Report Date:**	03/17/22

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.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

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

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TEL: 508-898-9220
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Mansfield, MA 02048
320 Forbes Blvd
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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 of

Date Rec'd in Lab: 3/1/22

ALPHA Job #: L2210610

Client Information
Client: Matrix New World
Address: 333 W 34th St Suite 202
New York, NY 10018
Phone: 914-584-6648
Fax:
Email: bcrespi@mnwe.com

Project Information
Project Name: BPCA
Project Location: Battery Park
Project #: 20-1152
(Use Project name as Project #)
Project Manager: Brain Crespi
ALPHAQuote #:

Turn-Around Time
Standard [X] 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 [X] NY Part 375
[ ] AWQ Standards [ ] NY CP-51
[ ] NY Restricted Use [ ] Other
[X] 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

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	Full TAL	HEXCR	Full TCLP	RCRA characteristics	Total Bottle	Sample Specific Comments
10610-01	SB22 (0-2)	3/1/22	9:15	soil	JT	✓	✓				
-02	SB22 (COMP) (0-5)	3/1/22	11:20	soil	JT			✓	✓		

Container Type: 6V | 6V | 6 | 6
Preservative:

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
Jason Toth	12:11 3/1/22	MSMA (via)	3/1/22 12:11
MSMA (via)	3/1/22 18:57	Paul Mazzella	3/1/22 19:10
Paul Mazzella	3/1/22 23:40		3/1/22 23:40

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)

ANALYTICAL REPORT

Lab Number:	L2213796
Client:	Matrix New World Engineering, Inc. 333 West 39th Street, Second Floor New York City, NY 10018
ATTN:	Brian Crespi
Phone:	(212) 324-4251
Project Name:	BPCA
Project Number:	20-1152
Report Date:	04/11/22

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508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2213796-01	BH-08 (8-10)	SOIL	BATTERY PARK	03/16/22 14:07	03/16/22

Project Name:	BPCA	**Lab Number:**	L2213796
Project Number:	20-1152	**Report Date:**	04/11/22

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:	BPCA	**Lab Number:**	L2213796
Project Number:	20-1152	**Report Date:**	04/11/22

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

L2213796-01: At the client's request, the analysis of Petroleum Hydrocarbon Identification by GC-FID was performed.

Volatile Organics

L2213796-01: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (46%) was below the acceptance criteria; however, re-analysis achieved the following results:1,4-dichlorobenzene-d4 (48%). The results of both analyses are reported.

The WG1617944-5 Method Blank, associated with L2213796-01, has a concentration above the reporting limit for toluene. Since the associated sample concentrations are either greater than 10x the blank concentration or non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".

Petroleum Hydrocarbon Identification by GC-FID

L2213796-01: The sample was extracted and then analyzed using a gas chromatograph equipped with a flame ionization detector (GC/FID). The temperature program and associated experimental conditions were optimized to obtain maximum resolution in an eighty minute chromatographic run representative of hydrocarbons in the n-Octane (C8) to n-Tetracontane (C40) range. Qualitative evaluation of the sample was conducted by reviewing the sample chromatogram in conjunction with a chromatogram of a normal alkane series generated with the same chromatographic conditions. Chromatograms of hydrocarbon reference materials obtained from our library of 82 reference standards were also utilized to provide the best possible sample match. Quantitative determination of the sample's hydrocarbon concentration was performed in accordance with EPA Method 8015M. The sample's total hydrocarbon concentration and all associated quality control data are included in the

Project Name: BPCA **Lab Number:** L2213796
Project Number: 20-1152 **Report Date:** 04/11/22

Case Narrative (continued)

report.

The following qualitative information is based on a tentative interpretation of chromatographic pattern recognition and boiling point ranges:

Total Petroleum Hydrocarbon Identification

L2213796-01 contains hydrocarbons eluting in the range of n-Decane (C10) to after the elution of n-Tetracontane (C40).

Based on the data generated, L2213796-01 contains a mixture of materials eluting in the low to heavy weight ranges of the chromatogram. The first material is similar to coal tar/creosote. The second material present is similar to weathered Fuel Oil #6.

In an analysis of an undegraded product the n-alkanes are typically the dominant constituents, as seen in the petroleum reference chromatogram. As the product deteriorates, the n-alkanes are preferentially degraded, leaving behind other constituents such as isoprenoids. The analytical testing of the sample identified a pattern of isoprenoids. The level of alkanes and their ratios to the isoprenoids present indicates that the fuel oil has undergone degradation.

Pesticides

L2213796-01D: The sample has elevated detection limits due to the dilution required by the sample matrix.

L2213796-01D: The internal standard (IS) response for 1-bromo-2-nitrobenzene (361%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences.The surrogate recoveries are outside the method acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (0%) and decachlorobiphenyl (0%) due to interference with the Internal Standard.

Total Metals

L2213796-01: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2213796
Report Date: 04/11/22

Case Narrative (continued)

Cyanide, Total

The WG1620945-2 LCS recovery for cyanide, total (52%), associated with L2213796-01, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported. The LCS/LCSD RPD is above the acceptance criteria for cyanide, total (43%).

Hexavalent Chromium

The WG1621596-4 Insoluble MS recovery for chromium, hexavalent (34%), performed on L2213796-01, is outside the acceptance criteria. The Soluble MS recovery for chromium, hexavalent (28%) was also outside criteria. This has been attributed to matrix interference. A post-spike was performed with a recovery of 91%.

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: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 04/11/22

ORGANICS

VOLATILES

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2213796
Report Date: 04/11/22

SAMPLE RESULTS

Lab ID: L2213796-01
Client ID: BH-08 (8-10)
Sample Location: BATTERY PARK
Date Collected: 03/16/22 14:07
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/18/22 19:40
Analyst: MKS
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.2	1.9	1
1,1-Dichloroethane	ND		ug/kg	0.84	0.12	1
Chloroform	0.91	J	ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.84	0.19	1
1,2-Dichloropropane	ND		ug/kg	0.84	0.10	1
Dibromochloromethane	ND		ug/kg	0.84	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.84	0.22	1
Tetrachloroethene	ND		ug/kg	0.42	0.16	1
Chlorobenzene	ND		ug/kg	0.42	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.4	0.59	1
1,2-Dichloroethane	ND		ug/kg	0.84	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.42	0.14	1
Bromodichloromethane	ND		ug/kg	0.42	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.84	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	0.42	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	0.42	0.13	1
1,1-Dichloropropene	ND		ug/kg	0.42	0.13	1
Bromoform	ND		ug/kg	3.4	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.42	0.14	1
Benzene	0.17	J	ug/kg	0.42	0.14	1
Toluene	ND		ug/kg	0.84	0.46	1
Ethylbenzene	ND		ug/kg	0.84	0.12	1
Chloromethane	ND		ug/kg	3.4	0.79	1
Bromomethane	ND		ug/kg	1.7	0.49	1
Vinyl chloride	ND		ug/kg	0.84	0.28	1
Chloroethane	ND		ug/kg	1.7	0.38	1
1,1-Dichloroethene	ND		ug/kg	0.84	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1

Project Name: BPCA **Lab Number:** L2213796

Project Number: 20-1152 **Report Date:** 04/11/22

SAMPLE RESULTS

Lab ID: L2213796-01 Date Collected: 03/16/22 14:07

Client ID: BH-08 (8-10) Date Received: 03/16/22

Sample Location: BATTERY PARK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.42	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.17	1
p/m-Xylene	ND		ug/kg	1.7	0.47	1
o-Xylene	ND		ug/kg	0.84	0.24	1
Xylenes, Total	ND		ug/kg	0.84	0.24	1
cis-1,2-Dichloroethene	ND		ug/kg	0.84	0.15	1
1,2-Dichloroethene, Total	ND		ug/kg	0.84	0.12	1
Dibromomethane	ND		ug/kg	1.7	0.20	1
Styrene	ND		ug/kg	0.84	0.16	1
Dichlorodifluoromethane	ND		ug/kg	8.4	0.77	1
Acetone	26		ug/kg	8.4	4.1	1
Carbon disulfide	9.6		ug/kg	8.4	3.8	1
2-Butanone	2.9	J	ug/kg	8.4	1.9	1
Vinyl acetate	ND		ug/kg	8.4	1.8	1
4-Methyl-2-pentanone	ND		ug/kg	8.4	1.1	1
1,2,3-Trichloropropane	ND		ug/kg	1.7	0.11	1
2-Hexanone	ND		ug/kg	8.4	1.0	1
Bromochloromethane	ND		ug/kg	1.7	0.17	1
2,2-Dichloropropane	ND		ug/kg	1.7	0.17	1
1,2-Dibromoethane	ND		ug/kg	0.84	0.24	1
1,3-Dichloropropane	ND		ug/kg	1.7	0.14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.42	0.11	1
Bromobenzene	ND		ug/kg	1.7	0.12	1
n-Butylbenzene	ND		ug/kg	0.84	0.14	1
sec-Butylbenzene	0.48	J	ug/kg	0.84	0.12	1
tert-Butylbenzene	ND		ug/kg	1.7	0.10	1
o-Chlorotoluene	ND		ug/kg	1.7	0.16	1
p-Chlorotoluene	ND		ug/kg	1.7	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5	0.84	1
Hexachlorobutadiene	ND		ug/kg	3.4	0.14	1
Isopropylbenzene	ND		ug/kg	0.84	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.84	0.09	1
Naphthalene	2.2	J	ug/kg	3.4	0.55	1
Acrylonitrile	ND		ug/kg	3.4	0.97	1

Project Name: BPCA **Lab Number:** L2213796

Project Number: 20-1152 **Report Date:** 04/11/22

SAMPLE RESULTS

Lab ID: L2213796-01 Date Collected: 03/16/22 14:07

Client ID: BH-08 (8-10) Date Received: 03/16/22

Sample Location: BATTERY PARK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.84	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	0.28	1
1,4-Dioxane	ND		ug/kg	68	30.	1
p-Diethylbenzene	ND		ug/kg	1.7	0.15	1
p-Ethyltoluene	ND		ug/kg	1.7	0.32	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.7	0.16	1
Ethyl ether	ND		ug/kg	1.7	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.2	1.2	1
Tentatively Identified Compounds						
Total TIC Compounds	40.3	J	ug/kg			1
Unknown	4.84	J	ug/kg			1
Unknown	5.07	J	ug/kg			1
Butane	25.3	NJ	ug/kg			1
Propane	2.67	NJ	ug/kg			1
Cyclotrisiloxane, Hexamethyl-	2.37	NJ	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	113		70-130

Project Name: BPCA **Lab Number:** L2213796

Project Number: 20-1152 **Report Date:** 04/11/22

SAMPLE RESULTS

Lab ID: L2213796-01 R
Client ID: BH-08 (8-10)
Sample Location: BATTERY PARK

Date Collected: 03/16/22 14:07
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/21/22 09:45
Analyst: AJK
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.0	1.4	1
1,1-Dichloroethane	ND		ug/kg	0.60	0.09	1
Chloroform	0.57	J	ug/kg	0.91	0.09	1
Carbon tetrachloride	ND		ug/kg	0.60	0.14	1
1,2-Dichloropropane	ND		ug/kg	0.60	0.08	1
Dibromochloromethane	ND		ug/kg	0.60	0.09	1
1,1,2-Trichloroethane	ND		ug/kg	0.60	0.16	1
Tetrachloroethene	ND		ug/kg	0.30	0.12	1
Chlorobenzene	ND		ug/kg	0.30	0.08	1
Trichlorofluoromethane	ND		ug/kg	2.4	0.42	1
1,2-Dichloroethane	ND		ug/kg	0.60	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	0.30	0.10	1
Bromodichloromethane	ND		ug/kg	0.30	0.07	1
trans-1,3-Dichloropropene	ND		ug/kg	0.60	0.16	1
cis-1,3-Dichloropropene	ND		ug/kg	0.30	0.10	1
1,3-Dichloropropene, Total	ND		ug/kg	0.30	0.10	1
1,1-Dichloropropene	ND		ug/kg	0.30	0.10	1
Bromoform	ND		ug/kg	2.4	0.15	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.30	0.10	1
Benzene	0.20	J	ug/kg	0.30	0.10	1
Toluene	ND		ug/kg	0.60	0.33	1
Ethylbenzene	0.19	J	ug/kg	0.60	0.09	1
Chloromethane	ND		ug/kg	2.4	0.56	1
Bromomethane	ND		ug/kg	1.2	0.35	1
Vinyl chloride	ND		ug/kg	0.60	0.20	1
Chloroethane	ND		ug/kg	1.2	0.27	1
1,1-Dichloroethene	ND		ug/kg	0.60	0.14	1
trans-1,2-Dichloroethene	ND		ug/kg	0.91	0.08	1

Project Name: BPCA **Lab Number:** L2213796

Project Number: 20-1152 **Report Date:** 04/11/22

SAMPLE RESULTS

Lab ID: L2213796-01 R Date Collected: 03/16/22 14:07
Client ID: BH-08 (8-10) Date Received: 03/16/22
Sample Location: BATTERY PARK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.30	0.08	1
1,2-Dichlorobenzene	ND		ug/kg	1.2	0.09	1
1,3-Dichlorobenzene	ND		ug/kg	1.2	0.09	1
1,4-Dichlorobenzene	ND		ug/kg	1.2	0.10	1
Methyl tert butyl ether	ND		ug/kg	1.2	0.12	1
p/m-Xylene	ND		ug/kg	1.2	0.34	1
o-Xylene	ND		ug/kg	0.60	0.18	1
Xylenes, Total	ND		ug/kg	0.60	0.18	1
cis-1,2-Dichloroethene	ND		ug/kg	0.60	0.10	1
1,2-Dichloroethene, Total	ND		ug/kg	0.60	0.08	1
Dibromomethane	ND		ug/kg	1.2	0.14	1
Styrene	0.38	J	ug/kg	0.60	0.12	1
Dichlorodifluoromethane	ND		ug/kg	6.0	0.55	1
Acetone	21		ug/kg	6.0	2.9	1
Carbon disulfide	4.0	J	ug/kg	6.0	2.8	1
2-Butanone	6.1		ug/kg	6.0	1.3	1
Vinyl acetate	ND		ug/kg	6.0	1.3	1
4-Methyl-2-pentanone	ND		ug/kg	6.0	0.78	1
1,2,3-Trichloropropane	ND		ug/kg	1.2	0.08	1
2-Hexanone	ND		ug/kg	6.0	0.71	1
Bromochloromethane	ND		ug/kg	1.2	0.12	1
2,2-Dichloropropane	ND		ug/kg	1.2	0.12	1
1,2-Dibromoethane	ND		ug/kg	0.60	0.17	1
1,3-Dichloropropane	ND		ug/kg	1.2	0.10	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.30	0.08	1
Bromobenzene	ND		ug/kg	1.2	0.09	1
n-Butylbenzene	ND		ug/kg	0.60	0.10	1
sec-Butylbenzene	0.58	J	ug/kg	0.60	0.09	1
tert-Butylbenzene	ND		ug/kg	1.2	0.07	1
o-Chlorotoluene	ND		ug/kg	1.2	0.12	1
p-Chlorotoluene	ND		ug/kg	1.2	0.07	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.8	0.60	1
Hexachlorobutadiene	ND		ug/kg	2.4	0.10	1
Isopropylbenzene	0.17	J	ug/kg	0.60	0.07	1
p-Isopropyltoluene	0.43	J	ug/kg	0.60	0.07	1
Naphthalene	2.6		ug/kg	2.4	0.39	1
Acrylonitrile	ND		ug/kg	2.4	0.70	1

Project Name: BPCA **Lab Number:** L2213796

Project Number: 20-1152 **Report Date:** 04/11/22

SAMPLE RESULTS

Lab ID: L2213796-01 R Date Collected: 03/16/22 14:07
Client ID: BH-08 (8-10) Date Received: 03/16/22
Sample Location: BATTERY PARK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	0.20	J	ug/kg	0.60	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.2	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.2	0.16	1
1,3,5-Trimethylbenzene	0.12	J	ug/kg	1.2	0.12	1
1,2,4-Trimethylbenzene	0.27	J	ug/kg	1.2	0.20	1
1,4-Dioxane	ND		ug/kg	48	21.	1
p-Diethylbenzene	0.24	J	ug/kg	1.2	0.11	1
p-Ethyltoluene	0.25	J	ug/kg	1.2	0.23	1
1,2,4,5-Tetramethylbenzene	0.61	J	ug/kg	1.2	0.12	1
Ethyl ether	ND		ug/kg	1.2	0.21	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	3.0	0.86	1
Tentatively Identified Compounds						
Total TIC Compounds	68.0	J	ug/kg			1
Cyclopentane, Methyl-	1.66	NJ	ug/kg			1
Unknown	2.23	J	ug/kg			1
n-Hexane	8.39	NJ	ug/kg			1
Pentane	16.1	NJ	ug/kg			1
Pentane, 2-methyl-	8.74	NJ	ug/kg			1
Unknown	2.57	J	ug/kg			1
Hexane, 3-methyl-	2.58	NJ	ug/kg			1
Butane	19.4	NJ	ug/kg			1
Acenaphthene	3.23	NJ	ug/kg			1
Unknown	3.10	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	124		70-130
Dibromofluoromethane	105		70-130

Project Name: BPCA **Lab Number:** L2213796

Project Number: 20-1152 **Report Date:** 04/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/18/22 12:17
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1617944-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	1.4		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: BPCA **Lab Number:** L2213796

Project Number: 20-1152 **Report Date:** 04/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/18/22 12:17
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1617944-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	0.66	J	ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: BPCA **Lab Number:** L2213796

Project Number: 20-1152 **Report Date:** 04/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/18/22 12:17
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1617944-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	2.2	J	ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Tentatively Identified Compounds			
Total TIC Compounds	4.83	J	ug/kg
Unknown	4.83	J	ug/kg

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2213796
Report Date: 04/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/18/22 12:17
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1617944-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	106		70-130

Project Name: BPCA **Lab Number:** L2213796

Project Number: 20-1152 **Report Date:** 04/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/21/22 09:18
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1618494-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: BPCA **Lab Number:** L2213796

Project Number: 20-1152 **Report Date:** 04/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/21/22 09:18
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1618494-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: BPCA **Lab Number:** L2213796

Project Number: 20-1152 **Report Date:** 04/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/21/22 09:18
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1618494-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	2.2	J	ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Tentatively Identified Compounds			
Total TIC Compounds	3.71	J	ug/kg
Unknown	3.71	J	ug/kg

Project Name: BPCA **Lab Number:** L2213796

Project Number: 20-1152 **Report Date:** 04/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/21/22 09:18
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1618494-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	107		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BPCA

Project Number: 20-1152

Lab Number: L2213796

Report Date: 04/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1617944-3 WG1617944-4								
Methylene chloride	96		105		70-130	9		30
1,1-Dichloroethane	99		100		70-130	1		30
Chloroform	96		99		70-130	3		30
Carbon tetrachloride	93		94		70-130	1		30
1,2-Dichloropropane	100		101		70-130	1		30
Dibromochloromethane	107		107		70-130	0		30
1,1,2-Trichloroethane	110		110		70-130	0		30
Tetrachloroethene	105		108		70-130	3		30
Chlorobenzene	103		105		70-130	2		30
Trichlorofluoromethane	91		93		70-139	2		30
1,2-Dichloroethane	100		99		70-130	1		30
1,1,1-Trichloroethane	96		99		70-130	3		30
Bromodichloromethane	98		100		70-130	2		30
trans-1,3-Dichloropropene	112		112		70-130	0		30
cis-1,3-Dichloropropene	105		105		70-130	0		30
1,1-Dichloropropene	97		100		70-130	3		30
Bromoform	107		109		70-130	2		30
1,1,2,2-Tetrachloroethane	110		110		70-130	0		30
Benzene	99		101		70-130	2		30
Toluene	106		108		70-130	2		30
Ethylbenzene	106		108		70-130	2		30
Chloromethane	102		102		52-130	0		30
Bromomethane	88		92		57-147	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1617944-3 WG1617944-4								
Vinyl chloride	100		100		67-130	0		30
Chloroethane	102		106		50-151	4		30
1,1-Dichloroethene	95		96		65-135	1		30
trans-1,2-Dichloroethene	95		102		70-130	7		30
Trichloroethene	94		97		70-130	3		30
1,2-Dichlorobenzene	107		106		70-130	1		30
1,3-Dichlorobenzene	108		106		70-130	2		30
1,4-Dichlorobenzene	105		104		70-130	1		30
Methyl tert butyl ether	101		102		66-130	1		30
p/m-Xylene	113		115		70-130	2		30
o-Xylene	113		114		70-130	1		30
cis-1,2-Dichloroethene	96		98		70-130	2		30
Dibromomethane	102		101		70-130	1		30
Styrene	105		106		70-130	1		30
Dichlorodifluoromethane	76		79		30-146	4		30
Acetone	114		132		54-140	15		30
Carbon disulfide	96		98		59-130	2		30
2-Butanone	112		110		70-130	2		30
Vinyl acetate	112		115		70-130	3		30
4-Methyl-2-pentanone	104		103		70-130	1		30
1,2,3-Trichloropropane	107		111		68-130	4		30
2-Hexanone	113		116		70-130	3		30
Bromochloromethane	98		98		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BPCA

Project Number: 20-1152

Lab Number: L2213796

Report Date: 04/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1617944-3 WG1617944-4								
2,2-Dichloropropane	94		97		70-130	3		30
1,2-Dibromoethane	111		109		70-130	2		30
1,3-Dichloropropane	109		109		69-130	0		30
1,1,1,2-Tetrachloroethane	107		108		70-130	1		30
Bromobenzene	101		102		70-130	1		30
n-Butylbenzene	114		115		70-130	1		30
sec-Butylbenzene	98		100		70-130	2		30
tert-Butylbenzene	107		110		70-130	3		30
o-Chlorotoluene	106		108		70-130	2		30
p-Chlorotoluene	107		108		70-130	1		30
1,2-Dibromo-3-chloropropane	118		114		68-130	3		30
Hexachlorobutadiene	106		107		67-130	1		30
Isopropylbenzene	105		108		70-130	3		30
p-Isopropyltoluene	98		100		70-130	2		30
Naphthalene	105		104		70-130	1		30
Acrylonitrile	107		111		70-130	4		30
n-Propylbenzene	105		109		70-130	4		30
1,2,3-Trichlorobenzene	112		109		70-130	3		30
1,2,4-Trichlorobenzene	111		107		70-130	4		30
1,3,5-Trimethylbenzene	110		111		70-130	1		30
1,2,4-Trimethylbenzene	112		114		70-130	2		30
1,4-Dioxane	78		79		65-136	1		30
p-Diethylbenzene	110		110		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1617944-3 WG1617944-4								
p-Ethyltoluene	108		111		70-130	3		30
1,2,4,5-Tetramethylbenzene	106		106		70-130	0		30
Ethyl ether	103		100		67-130	3		30
trans-1,4-Dichloro-2-butene	111		109		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		103		70-130
Toluene-d8	104		103		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	98		97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1618494-3 WG1618494-4								
Methylene chloride	104		106		70-130	2		30
1,1-Dichloroethane	98		98		70-130	0		30
Chloroform	98		97		70-130	1		30
Carbon tetrachloride	97		96		70-130	1		30
1,2-Dichloropropane	97		98		70-130	1		30
Dibromochloromethane	110		109		70-130	1		30
1,1,2-Trichloroethane	109		107		70-130	2		30
Tetrachloroethene	114		111		70-130	3		30
Chlorobenzene	108		106		70-130	2		30
Trichlorofluoromethane	95		92		70-139	3		30
1,2-Dichloroethane	96		96		70-130	0		30
1,1,1-Trichloroethane	99		97		70-130	2		30
Bromodichloromethane	99		98		70-130	1		30
trans-1,3-Dichloropropene	114		115		70-130	1		30
cis-1,3-Dichloropropene	107		106		70-130	1		30
1,1-Dichloropropene	102		100		70-130	2		30
Bromoform	115		112		70-130	3		30
1,1,2,2-Tetrachloroethane	112		108		70-130	4		30
Benzene	101		100		70-130	1		30
Toluene	110		108		70-130	2		30
Ethylbenzene	110		108		70-130	2		30
Chloromethane	85		83		52-130	2		30
Bromomethane	89		91		57-147	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1618494-3 WG1618494-4								
Vinyl chloride	92		88		67-130	4		30
Chloroethane	96		95		50-151	1		30
1,1-Dichloroethene	98		98		65-135	0		30
trans-1,2-Dichloroethene	104		102		70-130	2		30
Trichloroethene	99		97		70-130	2		30
1,2-Dichlorobenzene	110		108		70-130	2		30
1,3-Dichlorobenzene	113		112		70-130	1		30
1,4-Dichlorobenzene	110		107		70-130	3		30
Methyl tert butyl ether	104		105		66-130	1		30
p/m-Xylene	117		115		70-130	2		30
o-Xylene	116		114		70-130	2		30
cis-1,2-Dichloroethene	100		99		70-130	1		30
Dibromomethane	100		98		70-130	2		30
Styrene	108		105		70-130	3		30
Dichlorodifluoromethane	74		72		30-146	3		30
Acetone	107		123		54-140	14		30
Carbon disulfide	97		94		59-130	3		30
2-Butanone	97		99		70-130	2		30
Vinyl acetate	103		100		70-130	3		30
4-Methyl-2-pentanone	98		99		70-130	1		30
1,2,3-Trichloropropane	107		106		68-130	1		30
2-Hexanone	105		106		70-130	1		30
Bromochloromethane	103		101		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1618494-3 WG1618494-4								
2,2-Dichloropropane	102		100		70-130	2		30
1,2-Dibromoethane	113		113		70-130	0		30
1,3-Dichloropropane	108		108		69-130	0		30
1,1,1,2-Tetrachloroethane	110		108		70-130	2		30
Bromobenzene	111		108		70-130	3		30
n-Butylbenzene	120		116		70-130	3		30
sec-Butylbenzene	105		103		70-130	2		30
tert-Butylbenzene	117		114		70-130	3		30
o-Chlorotoluene	115		114		70-130	1		30
p-Chlorotoluene	116		114		70-130	2		30
1,2-Dibromo-3-chloropropane	116		111		68-130	4		30
Hexachlorobutadiene	114		110		67-130	4		30
Isopropylbenzene	116		113		70-130	3		30
p-Isopropyltoluene	106		103		70-130	3		30
Naphthalene	104		101		70-130	3		30
Acrylonitrile	101		101		70-130	0		30
n-Propylbenzene	115		113		70-130	2		30
1,2,3-Trichlorobenzene	113		110		70-130	3		30
1,2,4-Trichlorobenzene	117		113		70-130	3		30
1,3,5-Trimethylbenzene	118		116		70-130	2		30
1,2,4-Trimethylbenzene	119		117		70-130	2		30
1,4-Dioxane	79		84		65-136	6		30
p-Diethylbenzene	117		115		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1618494-3 WG1618494-4								
p-Ethyltoluene	119		116		70-130	3		30
1,2,4,5-Tetramethylbenzene	113		109		70-130	4		30
Ethyl ether	102		99		67-130	3		30
trans-1,4-Dichloro-2-butene	111		111		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		98		70-130
Toluene-d8	104		105		70-130
4-Bromofluorobenzene	104		103		70-130
Dibromofluoromethane	96		97		70-130

SEMIVOLATILES

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2213796
Report Date: 04/11/22

SAMPLE RESULTS

Lab ID: L2213796-01
Client ID: BH-08 (8-10)
Sample Location: BATTERY PARK

Date Collected: 03/16/22 14:07
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/31/22 08:48
Analyst: IM
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 03/27/22 00:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	44	J	ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	210	20.	1
1,2-Dichlorobenzene	ND		ug/kg	210	37.	1
1,3-Dichlorobenzene	ND		ug/kg	210	35.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	55.	1
2,4-Dinitrotoluene	ND		ug/kg	210	41.	1
2,6-Dinitrotoluene	ND		ug/kg	210	35.	1
Fluoranthene	320		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	190	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	27.	1
Naphthalene	38	J	ug/kg	210	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	71.	1
Butyl benzyl phthalate	ND		ug/kg	210	52.	1
Di-n-butylphthalate	ND		ug/kg	210	39.	1
Di-n-octylphthalate	ND		ug/kg	210	70.	1

Project Name: BPCA **Lab Number:** L2213796

Project Number: 20-1152 **Report Date:** 04/11/22

SAMPLE RESULTS

Lab ID: L2213796-01 Date Collected: 03/16/22 14:07

Client ID: BH-08 (8-10) Date Received: 03/16/22

Sample Location: BATTERY PARK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	43.	1
Benzo(a)anthracene	160		ug/kg	120	23.	1
Benzo(a)pyrene	190		ug/kg	160	50.	1
Benzo(b)fluoranthene	200		ug/kg	120	35.	1
Benzo(k)fluoranthene	65	J	ug/kg	120	33.	1
Chrysene	180		ug/kg	120	21.	1
Acenaphthylene	53	J	ug/kg	160	32.	1
Anthracene	72	J	ug/kg	120	40.	1
Benzo(ghi)perylene	110	J	ug/kg	160	24.	1
Fluorene	28	J	ug/kg	210	20.	1
Phenanthrene	220		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	25	J	ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	120	J	ug/kg	160	29.	1
Pyrene	320		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	27.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	85.	1
Dibenzofuran	24	J	ug/kg	210	19.	1
2-Methylnaphthalene	ND		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	210	68.	1
2-Nitrophenol	ND		ug/kg	440	78.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	990	96.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	99.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: BPCA **Lab Number:** L2213796

Project Number: 20-1152 **Report Date:** 04/11/22

SAMPLE RESULTS

Lab ID: L2213796-01 Date Collected: 03/16/22 14:07

Client ID: BH-08 (8-10) Date Received: 03/16/22

Sample Location: BATTERY PARK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	39.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	210	63.	1
Carbazole	20	J	ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	31	9.5	1
Tentatively Identified Compounds						
Total TIC Compounds	1050	J	ug/kg			1
Unknown	185	J	ug/kg			1
Unknown	253	J	ug/kg			1
Unknown	615	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	99		30-120
2,4,6-Tribromophenol	117		10-136
4-Terphenyl-d14	100		18-120

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/28/22 13:22
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 03/26/22 23:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1620163-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/28/22 13:22
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 03/26/22 23:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1620163-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	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	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/28/22 13:22
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 03/26/22 23:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1620163-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	102		25-120
Phenol-d6	104		10-120
Nitrobenzene-d5	105		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	95		10-136
4-Terphenyl-d14	85		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1620163-2 WG1620163-3								
Acenaphthene	77		86		31-137	11		50
1,2,4-Trichlorobenzene	72		81		38-107	12		50
Hexachlorobenzene	70		78		40-140	11		50
Bis(2-chloroethyl)ether	81		93		40-140	14		50
2-Chloronaphthalene	75		83		40-140	10		50
1,2-Dichlorobenzene	75		85		40-140	13		50
1,3-Dichlorobenzene	75		84		40-140	11		50
1,4-Dichlorobenzene	74		84		28-104	13		50
3,3'-Dichlorobenzidine	70		70		40-140	0		50
2,4-Dinitrotoluene	89		98		40-132	10		50
2,6-Dinitrotoluene	91		99		40-140	8		50
Fluoranthene	79		88		40-140	11		50
4-Chlorophenyl phenyl ether	73		80		40-140	9		50
4-Bromophenyl phenyl ether	70		78		40-140	11		50
Bis(2-chloroisopropyl)ether	104		117		40-140	12		50
Bis(2-chloroethoxy)methane	88		99		40-117	12		50
Hexachlorobutadiene	62		68		40-140	9		50
Hexachlorocyclopentadiene	53		60		40-140	12		50
Hexachloroethane	74		85		40-140	14		50
Isophorone	86		95		40-140	10		50
Naphthalene	78		87		40-140	11		50
Nitrobenzene	93		101		40-140	8		50
NDPA/DPA	77		86		36-157	11		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1620163-2 WG1620163-3								
n-Nitrosodi-n-propylamine	85		94		32-121	10		50
Bis(2-ethylhexyl)phthalate	91		102		40-140	11		50
Butyl benzyl phthalate	86		98		40-140	13		50
Di-n-butylphthalate	89		100		40-140	12		50
Di-n-octylphthalate	94		103		40-140	9		50
Diethyl phthalate	78		88		40-140	12		50
Dimethyl phthalate	77		85		40-140	10		50
Benzo(a)anthracene	77		86		40-140	11		50
Benzo(a)pyrene	79		88		40-140	11		50
Benzo(b)fluoranthene	78		85		40-140	9		50
Benzo(k)fluoranthene	81		92		40-140	13		50
Chrysene	79		88		40-140	11		50
Acenaphthylene	79		88		40-140	11		50
Anthracene	81		90		40-140	11		50
Benzo(ghi)perylene	78		87		40-140	11		50
Fluorene	78		86		40-140	10		50
Phenanthrene	80		90		40-140	12		50
Dibenzo(a,h)anthracene	82		91		40-140	10		50
Indeno(1,2,3-cd)pyrene	85		94		40-140	10		50
Pyrene	78		87		35-142	11		50
Biphenyl	80		88		37-127	10		50
4-Chloroaniline	70		47		40-140	39		50
2-Nitroaniline	97		108		47-134	11		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1620163-2 WG1620163-3								
3-Nitroaniline	79		78		26-129	1		50
4-Nitroaniline	87		93		41-125	7		50
Dibenzofuran	78		86		40-140	10		50
2-Methylnaphthalene	80		88		40-140	10		50
1,2,4,5-Tetrachlorobenzene	67		75		40-117	11		50
Acetophenone	84		93		14-144	10		50
2,4,6-Trichlorophenol	79		87		30-130	10		50
p-Chloro-m-cresol	86		93		26-103	8		50
2-Chlorophenol	86		97		25-102	12		50
2,4-Dichlorophenol	87		97		30-130	11		50
2,4-Dimethylphenol	88		98		30-130	11		50
2-Nitrophenol	108		122		30-130	12		50
4-Nitrophenol	102		**115**	Q	11-114	12		50
2,4-Dinitrophenol	101		110		4-130	9		50
4,6-Dinitro-o-cresol	100		110		10-130	10		50
Pentachlorophenol	72		80		17-109	11		50
Phenol	**97**	Q	**108**	Q	26-90	11		50
2-Methylphenol	88		98		30-130.	11		50
3-Methylphenol/4-Methylphenol	93		103		30-130	10		50
2,4,5-Trichlorophenol	78		87		30-130	11		50
Benzoic Acid	84		90		10-110	7		50
Benzyl Alcohol	89		100		40-140	12		50
Carbazole	82		92		54-128	11		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1620163-2 WG1620163-3								
1,4-Dioxane	55		61		40-140	10		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	90		101		25-120
Phenol-d6	94		104		10-120
Nitrobenzene-d5	95		106		23-120
2-Fluorobiphenyl	73		81		30-120
2,4,6-Tribromophenol	87		96		10-136
4-Terphenyl-d14	76		85		18-120

PETROLEUM HYDROCARBONS

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

SAMPLE RESULTS

Lab ID: L2213796-01
Client ID: BH-08 (8-10)
Sample Location: BATTERY PARK

Date Collected: 03/16/22 14:07
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 03/26/22 02:59
Analyst: WR
Percent Solids: 79%

Extraction Method: ALPHA OP-013
Extraction Date: 03/23/22 15:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	537		mg/kg	6.83	3.41	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	94		50-130
d50-Tetracosane	93		50-130

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 03/25/22 16:38
Analyst: WR

Extraction Method: ALPHA OP-013
Extraction Date: 03/23/22 15:05

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab for sample(s): 01 Batch: WG1618972-1					
Total Petroleum Hydrocarbons (C9-C44)	ND		mg/kg	2.20	1.10

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	105		50-130
d50-Tetracosane	103		50-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab Associated sample(s): 01 Batch: WG1618972-2 WG1618972-3								
Nonane (C9)	84		83		50-130	1		30
Decane (C10)	92		87		50-130	6		30
Dodecane (C12)	95		88		50-130	8		30
Tetradecane (C14)	93		92		50-130	1		30
Hexadecane (C16)	100		100		50-130	0		30
Octadecane (C18)	107		107		50-130	0		30
Nonadecane (C19)	98		98		50-130	0		30
Eicosane (C20)	96		97		50-130	1		30
Docosane (C22)	98		99		50-130	1		30
Tetracosane (C24)	100		102		50-130	2		30
Hexacosane (C26)	98		100		50-130	2		30
Octacosane (C28)	97		99		50-130	2		30
Triacontane (C30)	98		99		50-130	1		30
Hexatriacontane (C36)	89		89		50-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	107		104		50-130
d50-Tetracosane	105		107		50-130

PCBS

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2213796
Report Date: 04/11/22

SAMPLE RESULTS

Lab ID: L2213796-01
Client ID: BH-08 (8-10)
Sample Location: BATTERY PARK

Date Collected: 03/16/22 14:07
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/30/22 03:11
Analyst: AWS
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 03/29/22 01:15
Cleanup Method: EPA 3665A
Cleanup Date: 03/29/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/29/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.6	3.60	1	A
Aroclor 1221	ND		ug/kg	40.6	4.07	1	A
Aroclor 1232	ND		ug/kg	40.6	8.61	1	A
Aroclor 1242	36.1	J	ug/kg	40.6	5.47	1	B
Aroclor 1248	ND		ug/kg	40.6	6.09	1	A
Aroclor 1254	31.6	J	ug/kg	40.6	4.44	1	B
Aroclor 1260	12.9	J	ug/kg	40.6	7.50	1	B
Aroclor 1262	ND		ug/kg	40.6	5.16	1	A
Aroclor 1268	ND		ug/kg	40.6	4.21	1	A
PCBs, Total	80.6	J	ug/kg	40.6	3.60	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	99		30-150	B
Decachlorobiphenyl	93		30-150	B

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/30/22 02:08
Analyst: AWS

Extraction Method: EPA 3546
Extraction Date: 03/29/22 01:15
Cleanup Method: EPA 3665A
Cleanup Date: 03/29/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/29/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1620778-1						
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	6.86	A
Aroclor 1242	ND		ug/kg	32.3	4.36	A
Aroclor 1248	ND		ug/kg	32.3	4.85	A
Aroclor 1254	ND		ug/kg	32.3	3.54	A
Aroclor 1260	ND		ug/kg	32.3	5.98	A
Aroclor 1262	ND		ug/kg	32.3	4.11	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	91		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	95		30-150	B
Decachlorobiphenyl	92		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BPCA

Project Number: 20-1152

Lab Number: L2213796

Report Date: 04/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1620778-2 WG1620778-3									
Aroclor 1016	86		82		40-140	5		50	A
Aroclor 1260	86		82		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		92		30-150	A
Decachlorobiphenyl	95		92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	97		94		30-150	B
Decachlorobiphenyl	94		93		30-150	B

PESTICIDES

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2213796
Report Date: 04/11/22

SAMPLE RESULTS

Lab ID: L2213796-01 D
Client ID: BH-08 (8-10)
Sample Location: BATTERY PARK

Date Collected: 03/16/22 14:07
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/30/22 19:10
Analyst: EJL
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 03/27/22 00:33
Cleanup Method: EPA 3620B
Cleanup Date: 03/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	99.6	19.5	50	B
Lindane	ND		ug/kg	41.5	18.6	50	B
Alpha-BHC	ND		ug/kg	41.5	11.8	50	B
Beta-BHC	ND		ug/kg	99.6	37.8	50	B
Heptachlor	ND		ug/kg	49.8	22.3	50	B
Aldrin	ND		ug/kg	99.6	35.1	50	B
Heptachlor epoxide	ND		ug/kg	187	56.0	50	B
Endrin	ND		ug/kg	41.5	17.0	50	B
Endrin aldehyde	ND		ug/kg	124	43.6	50	B
Endrin ketone	ND		ug/kg	99.6	25.6	50	B
Dieldrin	ND		ug/kg	62.3	31.1	50	B
4,4'-DDE	ND		ug/kg	99.6	23.0	50	B
4,4'-DDD	ND		ug/kg	99.6	35.5	50	B
4,4'-DDT	ND		ug/kg	187	80.1	50	B
Endosulfan I	ND		ug/kg	99.6	23.5	50	B
Endosulfan II	ND		ug/kg	99.6	33.3	50	B
Endosulfan sulfate	ND		ug/kg	41.5	19.8	50	B
Methoxychlor	ND		ug/kg	187	58.1	50	B
Toxaphene	ND		ug/kg	1870	523.	50	B
cis-Chlordane	ND		ug/kg	124	34.7	50	B
trans-Chlordane	ND		ug/kg	124	32.9	50	B
Chlordane	ND		ug/kg	830	330.	50	B

Project Name: BPCA **Lab Number:** L2213796

Project Number: 20-1152 **Report Date:** 04/11/22

SAMPLE RESULTS

Lab ID: L2213796-01 D
Client ID: BH-08 (8-10)
Sample Location: BATTERY PARK

Date Collected: 03/16/22 14:07
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	A
Decachlorobiphenyl	**0**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	B
Decachlorobiphenyl	**0**	Q	30-150	B

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/29/22 16:12
Analyst: EJL

Extraction Method: EPA 3546
Extraction Date: 03/27/22 00:33
Cleanup Method: EPA 3620B
Cleanup Date: 03/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1620168-1						
Delta-BHC	ND		ug/kg	1.58	0.309	A
Lindane	ND		ug/kg	0.657	0.294	A
Alpha-BHC	ND		ug/kg	0.657	0.186	A
Beta-BHC	ND		ug/kg	1.58	0.598	A
Heptachlor	ND		ug/kg	0.788	0.353	A
Aldrin	ND		ug/kg	1.58	0.555	A
Heptachlor epoxide	ND		ug/kg	2.96	0.887	A
Endrin	ND		ug/kg	0.657	0.269	A
Endrin aldehyde	ND		ug/kg	1.97	0.690	A
Endrin ketone	ND		ug/kg	1.58	0.406	A
Dieldrin	ND		ug/kg	0.986	0.493	A
4,4'-DDE	ND		ug/kg	1.58	0.365	A
4,4'-DDD	ND		ug/kg	1.58	0.562	A
4,4'-DDT	ND		ug/kg	2.96	1.27	A
Endosulfan I	ND		ug/kg	1.58	0.372	A
Endosulfan II	ND		ug/kg	1.58	0.527	A
Endosulfan sulfate	ND		ug/kg	0.657	0.313	A
Methoxychlor	ND		ug/kg	2.96	0.920	A
Toxaphene	ND		ug/kg	29.6	8.28	A
cis-Chlordane	ND		ug/kg	1.97	0.549	A
trans-Chlordane	ND		ug/kg	1.97	0.520	A
Chlordane	ND		ug/kg	13.1	5.22	A

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/29/22 16:12
Analyst: EJL

Extraction Method: EPA 3546
Extraction Date: 03/27/22 00:33
Cleanup Method: EPA 3620B
Cleanup Date: 03/28/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1620168-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	97		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1620168-2 WG1620168-3									
Delta-BHC	51		52		30-150	2		30	A
Lindane	76		79		30-150	4		30	A
Alpha-BHC	74		77		30-150	4		30	A
Beta-BHC	74		75		30-150	1		30	A
Heptachlor	79		82		30-150	4		30	A
Aldrin	72		76		30-150	5		30	A
Heptachlor epoxide	64		66		30-150	3		30	A
Endrin	77		78		30-150	1		30	A
Endrin aldehyde	52		50		30-150	4		30	A
Endrin ketone	83		78		30-150	6		30	A
Dieldrin	80		80		30-150	0		30	A
4,4'-DDE	71		74		30-150	4		30	A
4,4'-DDD	81		81		30-150	0		30	A
4,4'-DDT	82		82		30-150	0		30	A
Endosulfan I	72		74		30-150	3		30	A
Endosulfan II	77		76		30-150	1		30	A
Endosulfan sulfate	61		57		30-150	7		30	A
Methoxychlor	82		81		30-150	1		30	A
cis-Chlordane	63		67		30-150	6		30	A
trans-Chlordane	76		77		30-150	1		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1620168-2 WG1620168-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		73		30-150	A
Decachlorobiphenyl	95		107		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		75		30-150	B
Decachlorobiphenyl	103		109		30-150	B

METALS

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2213796
Report Date: 04/11/22

SAMPLE RESULTS

Lab ID: L2213796-01
Client ID: BH-08 (8-10)
Sample Location: BATTERY PARK
Date Collected: 03/16/22 14:07
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8940		mg/kg	9.84	2.66	2	03/29/22 07:00	04/11/22 13:48	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.92	0.374	2	03/29/22 07:00	04/11/22 13:48	EPA 3050B	1,6010D	SV
Arsenic, Total	2.18		mg/kg	0.984	0.205	2	03/29/22 07:00	04/11/22 13:48	EPA 3050B	1,6010D	SV
Barium, Total	107		mg/kg	0.984	0.171	2	03/29/22 07:00	04/11/22 13:48	EPA 3050B	1,6010D	SV
Beryllium, Total	0.394	J	mg/kg	0.492	0.033	2	03/29/22 07:00	04/11/22 13:48	EPA 3050B	1,6010D	SV
Cadmium, Total	1.11		mg/kg	0.984	0.096	2	03/29/22 07:00	04/11/22 13:48	EPA 3050B	1,6010D	SV
Calcium, Total	10900		mg/kg	9.84	3.44	2	03/29/22 07:00	04/11/22 13:48	EPA 3050B	1,6010D	SV
Chromium, Total	32.8		mg/kg	0.984	0.094	2	03/29/22 07:00	04/11/22 13:48	EPA 3050B	1,6010D	SV
Cobalt, Total	11.8		mg/kg	1.97	0.163	2	03/29/22 07:00	04/11/22 13:48	EPA 3050B	1,6010D	SV
Copper, Total	69.8		mg/kg	0.984	0.254	2	03/29/22 07:00	04/11/22 13:48	EPA 3050B	1,6010D	SV
Iron, Total	19200		mg/kg	4.92	0.888	2	03/29/22 07:00	04/11/22 13:48	EPA 3050B	1,6010D	SV
Lead, Total	69.5		mg/kg	4.92	0.264	2	03/29/22 07:00	04/11/22 13:48	EPA 3050B	1,6010D	SV
Magnesium, Total	8510		mg/kg	9.84	1.52	2	03/29/22 07:00	04/11/22 13:48	EPA 3050B	1,6010D	SV
Manganese, Total	254		mg/kg	0.984	0.156	2	03/29/22 07:00	04/11/22 13:48	EPA 3050B	1,6010D	SV
Mercury, Total	0.268		mg/kg	0.079	0.051	1	03/29/22 11:00	04/05/22 13:54	EPA 7471B	1,7471B	DMB
Nickel, Total	32.3		mg/kg	2.46	0.238	2	03/29/22 07:00	04/11/22 13:48	EPA 3050B	1,6010D	SV
Potassium, Total	3140		mg/kg	246	14.2	2	03/29/22 07:00	04/11/22 13:48	EPA 3050B	1,6010D	SV
Selenium, Total	0.305	J	mg/kg	1.97	0.254	2	03/29/22 07:00	04/11/22 13:48	EPA 3050B	1,6010D	SV
Silver, Total	1.20		mg/kg	0.984	0.278	2	03/29/22 07:00	04/11/22 13:48	EPA 3050B	1,6010D	SV
Sodium, Total	234		mg/kg	197	3.10	2	03/29/22 07:00	04/11/22 13:48	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.97	0.310	2	03/29/22 07:00	04/11/22 13:48	EPA 3050B	1,6010D	SV
Vanadium, Total	40.7		mg/kg	0.984	0.200	2	03/29/22 07:00	04/11/22 13:48	EPA 3050B	1,6010D	SV
Zinc, Total	91.4		mg/kg	4.92	0.288	2	03/29/22 07:00	04/11/22 13:48	EPA 3050B	1,6010D	SV

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2213796
Report Date: 04/11/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1620540-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	03/29/22 07:00	04/11/22 11:51	1,6010D	SV
Antimony, Total	ND		mg/kg	2.00	0.152	1	03/29/22 07:00	04/11/22 11:51	1,6010D	SV
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/29/22 07:00	04/11/22 11:51	1,6010D	SV
Barium, Total	ND		mg/kg	0.400	0.070	1	03/29/22 07:00	04/11/22 11:51	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.200	0.013	1	03/29/22 07:00	04/11/22 11:51	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.400	0.039	1	03/29/22 07:00	04/11/22 11:51	1,6010D	SV
Calcium, Total	3.06	J	mg/kg	4.00	1.40	1	03/29/22 07:00	04/11/22 11:51	1,6010D	SV
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/29/22 07:00	04/11/22 11:51	1,6010D	SV
Cobalt, Total	ND		mg/kg	0.800	0.066	1	03/29/22 07:00	04/11/22 11:51	1,6010D	SV
Copper, Total	ND		mg/kg	0.400	0.103	1	03/29/22 07:00	04/11/22 11:51	1,6010D	SV
Iron, Total	1.64	J	mg/kg	2.00	0.361	1	03/29/22 07:00	04/11/22 11:51	1,6010D	SV
Lead, Total	ND		mg/kg	2.00	0.107	1	03/29/22 07:00	04/11/22 11:51	1,6010D	SV
Magnesium, Total	0.776	J	mg/kg	4.00	0.616	1	03/29/22 07:00	04/11/22 11:51	1,6010D	SV
Manganese, Total	0.080	J	mg/kg	0.400	0.064	1	03/29/22 07:00	04/11/22 11:51	1,6010D	SV
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/29/22 07:00	04/11/22 11:51	1,6010D	SV
Potassium, Total	ND		mg/kg	100	5.76	1	03/29/22 07:00	04/11/22 11:51	1,6010D	SV
Selenium, Total	ND		mg/kg	0.800	0.103	1	03/29/22 07:00	04/11/22 11:51	1,6010D	SV
Silver, Total	ND		mg/kg	0.400	0.113	1	03/29/22 07:00	04/11/22 11:51	1,6010D	SV
Sodium, Total	ND		mg/kg	80.0	1.26	1	03/29/22 07:00	04/11/22 11:51	1,6010D	SV
Thallium, Total	ND		mg/kg	0.800	0.126	1	03/29/22 07:00	04/11/22 11:51	1,6010D	SV
Vanadium, Total	ND		mg/kg	0.400	0.081	1	03/29/22 07:00	04/11/22 11:51	1,6010D	SV
Zinc, Total	ND		mg/kg	2.00	0.117	1	03/29/22 07:00	04/11/22 11:51	1,6010D	SV

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1620542-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	03/29/22 11:00	04/05/22 13:04	1,7471B	DMB

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BPCA

Project Number: 20-1152

Lab Number: L2213796

Report Date: 04/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1620540-2 SRM Lot Number: D113-540								
Aluminum, Total	68		-		51-149	-		
Antimony, Total	111		-		20-250	-		
Arsenic, Total	83		-		70-130	-		
Barium, Total	87		-		75-125	-		
Beryllium, Total	96		-		75-125	-		
Cadmium, Total	86		-		75-125	-		
Calcium, Total	86		-		73-128	-		
Chromium, Total	85		-		70-130	-		
Cobalt, Total	86		-		75-125	-		
Copper, Total	86		-		75-125	-		
Iron, Total	78		-		36-164	-		
Lead, Total	80		-		72-128	-		
Magnesium, Total	85		-		63-138	-		
Manganese, Total	84		-		77-123	-		
Nickel, Total	84		-		70-130	-		
Potassium, Total	79		-		59-141	-		
Selenium, Total	84		-		66-134	-		
Silver, Total	82		-		70-131	-		
Sodium, Total	91		-		35-164	-		
Thallium, Total	90		-		70-130	-		
Vanadium, Total	86		-		74-126	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BPCA

Project Number: 20-1152

Lab Number: L2213796

Report Date: 04/11/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1620540-2 SRM Lot Number: D113-540					
Zinc, Total	82	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1620542-2 SRM Lot Number: D113-540					
Mercury, Total	98	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1620540-3 QC Sample: L2213771-41 Client ID: MS Sample												
Aluminum, Total	4940	182	4880	**0**	Q	-	-		75-125	-		20
Antimony, Total	ND	45.4	24.6	**54**	Q	-	-		75-125	-		20
Arsenic, Total	ND	10.9	8.49	78		-	-		75-125	-		20
Barium, Total	34.2	182	167	**73**	Q	-	-		75-125	-		20
Beryllium, Total	0.055J	4.54	3.54	78		-	-		75-125	-		20
Cadmium, Total	0.469	4.81	3.81	**69**	Q	-	-		75-125	-		20
Calcium, Total	4940	908	6580	**180**	Q	-	-		75-125	-		20
Chromium, Total	63.1	18.2	49.8	**0**	Q	-	-		75-125	-		20
Cobalt, Total	19.4	45.4	44.7	**56**	Q	-	-		75-125	-		20
Copper, Total	59.2	22.7	62.2	**13**	Q	-	-		75-125	-		20
Iron, Total	13600	90.8	11400	**0**	Q	-	-		75-125	-		20
Lead, Total	4.27	48.1	37.0	**68**	Q	-	-		75-125	-		20
Magnesium, Total	4070	908	4350	**31**	Q	-	-		75-125	-		20
Manganese, Total	174	45.4	216	92		-	-		75-125	-		20
Nickel, Total	9.29	45.4	38.0	**63**	Q	-	-		75-125	-		20
Potassium, Total	948	908	1470	**57**	Q	-	-		75-125	-		20
Selenium, Total	0.146J	10.9	8.12	**74**	Q	-	-		75-125	-		20
Silver, Total	ND	27.2	20.8	76		-	-		75-125	-		20
Sodium, Total	392	908	1160	84		-	-		75-125	-		20
Thallium, Total	ND	10.9	7.54	**69**	Q	-	-		75-125	-		20
Vanadium, Total	48.4	45.4	68.3	**44**	Q	-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1620540-3 QC Sample: L2213771-41 Client ID: MS Sample										
Zinc, Total	29.3	45.4	56.2	**59**	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1620542-3 QC Sample: L2213771-41 Client ID: MS Sample										
Mercury, Total	ND	0.148	0.153	103		-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1620540-4 QC Sample: L2213771-41 Client ID: DUP Sample						
Arsenic, Total	ND	ND	mg/kg	NC		20
Barium, Total	34.2	37.8	mg/kg	10		20
Cadmium, Total	0.469	0.482	mg/kg	3		20
Chromium, Total	63.1	38.8	mg/kg	**48**	Q	20
Lead, Total	4.27	3.98	mg/kg	7		20
Selenium, Total	0.146J	0.173J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1620542-4 QC Sample: L2213771-41 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20

Project Name: BPCA
Project Number: 20-1152

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2213796
Report Date: 04/11/22

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1620540-6 QC Sample: L2213771-41 Client ID: DUP Sample						
Barium, Total	34.2	43.3	mg/kg	**27**	Q	20
Chromium, Total	63.1	83.0	mg/kg	**32**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

SAMPLE RESULTS

Lab ID: L2213796-01
Client ID: BH-08 (8-10)
Sample Location: BATTERY PARK

Date Collected: 03/16/22 14:07
Date Received: 03/16/22
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	79.4		%	0.100	NA	1	-	03/17/22 09:16	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	03/29/22 12:05	03/29/22 15:07	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	1.01	0.202	1	04/03/22 13:05	04/06/22 16:27	1,7196A	NL

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2213796
Report Date: 04/11/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1620945-1										
Cyanide, Total	ND		mg/kg	0.86	0.18	1	03/29/22 12:05	03/29/22 14:55	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1621596-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	04/03/22 13:05	04/06/22 16:27	1,7196A	NL

Lab Control Sample Analysis

Batch Quality Control

Project Name: BPCA

Project Number: 20-1152

Lab Number: L2213796

Report Date: 04/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1620945-2 WG1620945-3								
Cyanide, Total	**52**	Q	81		80-120	**43**	Q	35
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1621596-2								
Chromium, Hexavalent	88		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1620945-4 WG1620945-5 QC Sample: L2213695-16 Client ID: MS Sample												
Cyanide, Total	ND	10	12	120		10	98		75-125	18		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1621596-4 QC Sample: L2213796-01 Client ID: BH-08 (8-10)												
Chromium, Hexavalent	ND	1440	494	**34**	Q	-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1616628-1 QC Sample: L2213384-03 Client ID: DUP Sample						
Solids, Total	89.5	89.6	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1621596-6 QC Sample: L2213796-01 Client ID: BH-08 (8-10)						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2213796
Report Date: 04/11/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2213796-01A	Vial MeOH preserved	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2213796-01B	Vial water preserved	A	NA		3.5	Y	Absent	17-MAR-22 06:47	NYTCL-8260HLW(14)
L2213796-01C	Vial water preserved	A	NA		3.5	Y	Absent	17-MAR-22 06:47	NYTCL-8260HLW(14)
L2213796-01D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2213796-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	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),ZN-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),SB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)
L2213796-01F	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		A2-PHI(14)
L2213796-01G	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name:	BPCA	**Lab Number:**	L2213796
Project Number:	20-1152	**Report Date:**	04/11/22

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:	BPCA	**Lab Number:**	L2213796
Project Number:	20-1152	**Report Date:**	04/11/22

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. 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.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	BPCA	**Lab Number:**	L2213796
Project Number:	20-1152	**Report Date:**	04/11/22

Data Qualifiers

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:	BPCA	**Lab Number:**	L2213796
Project Number:	20-1152	**Report Date:**	04/11/22

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: 508-822-9288

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 of

Date Rec'd in Lab: 3/16/22

ALPHA Job #: L2213796

Client Information

Client: Matrix New World
Address: 333 W 39th St Suite 202
New York NY 10018
Phone: 914-584-6648
Fax:
Email: bcrespi@mnwe.com

Project Information

Project Name: DPCA
Project Location: Battery Park
Project # 20-1152
(Use Project name as Project #) ☐
Project Manager: Brain Crespi
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	Full TCL + TAL	HEXCR							Sample Specific Comments	Total Bottle
13796-01	BH-08 (8-10)	3/16/22	14:07	Soil	JT	✓	✓								

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
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type						GV	GV							
Preservative														

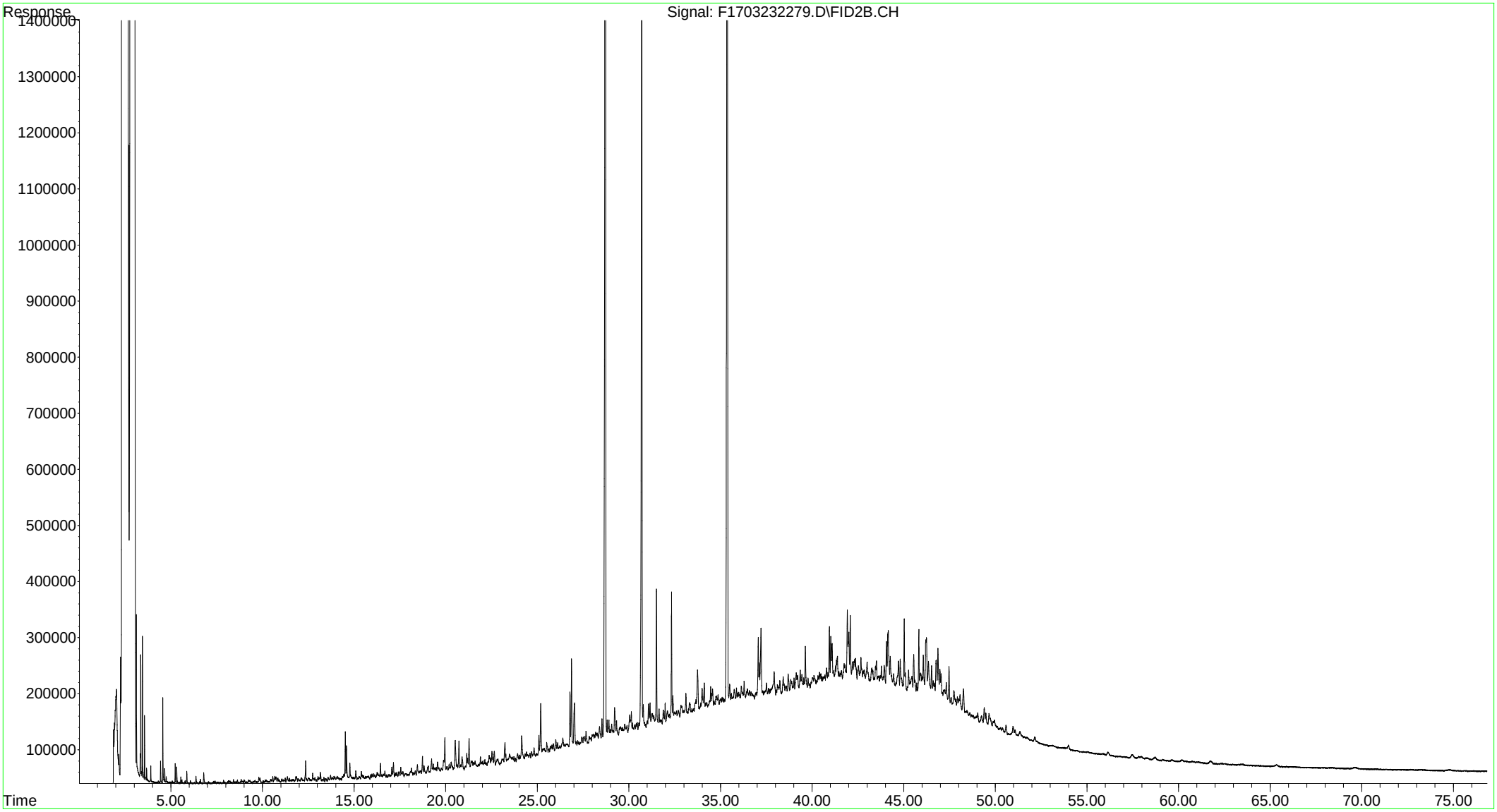
Relinquished By:	Date/Time	Received By:	Date/Time
Jason Toth	3/16/22 16:35	[illegible]	3/16/22 16:36
[illegible]	3/16/22 17:48	[illegible]	3/16 1930
[illegible]	3/16	DAN QUARELL	3/16 2050
DAN QUARELL	3/16 2300		3/16/22 2300

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.)

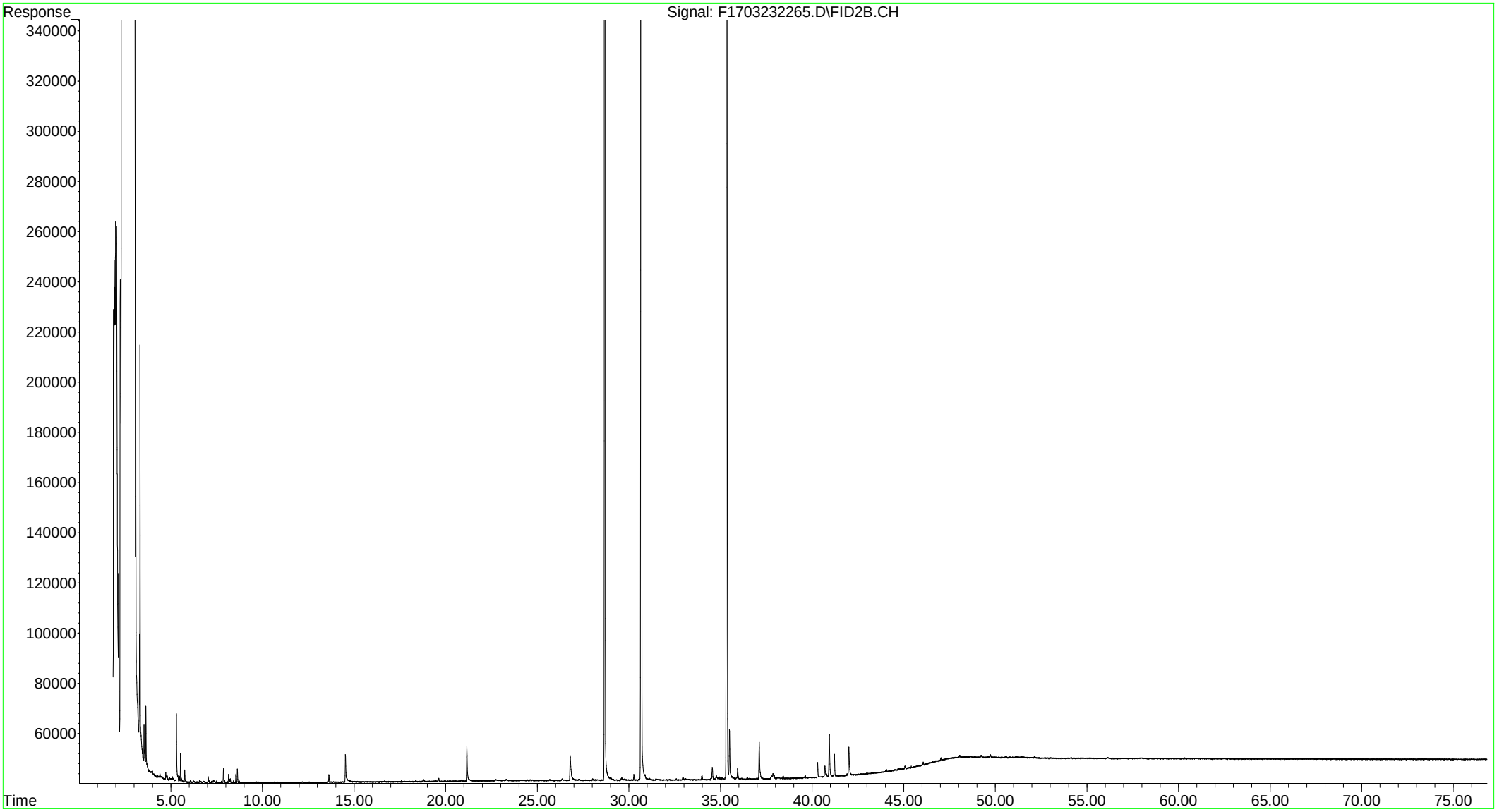
Form No: 01-25 HC (rev. 30-Sept-2013)

GC-FID Chromatogram

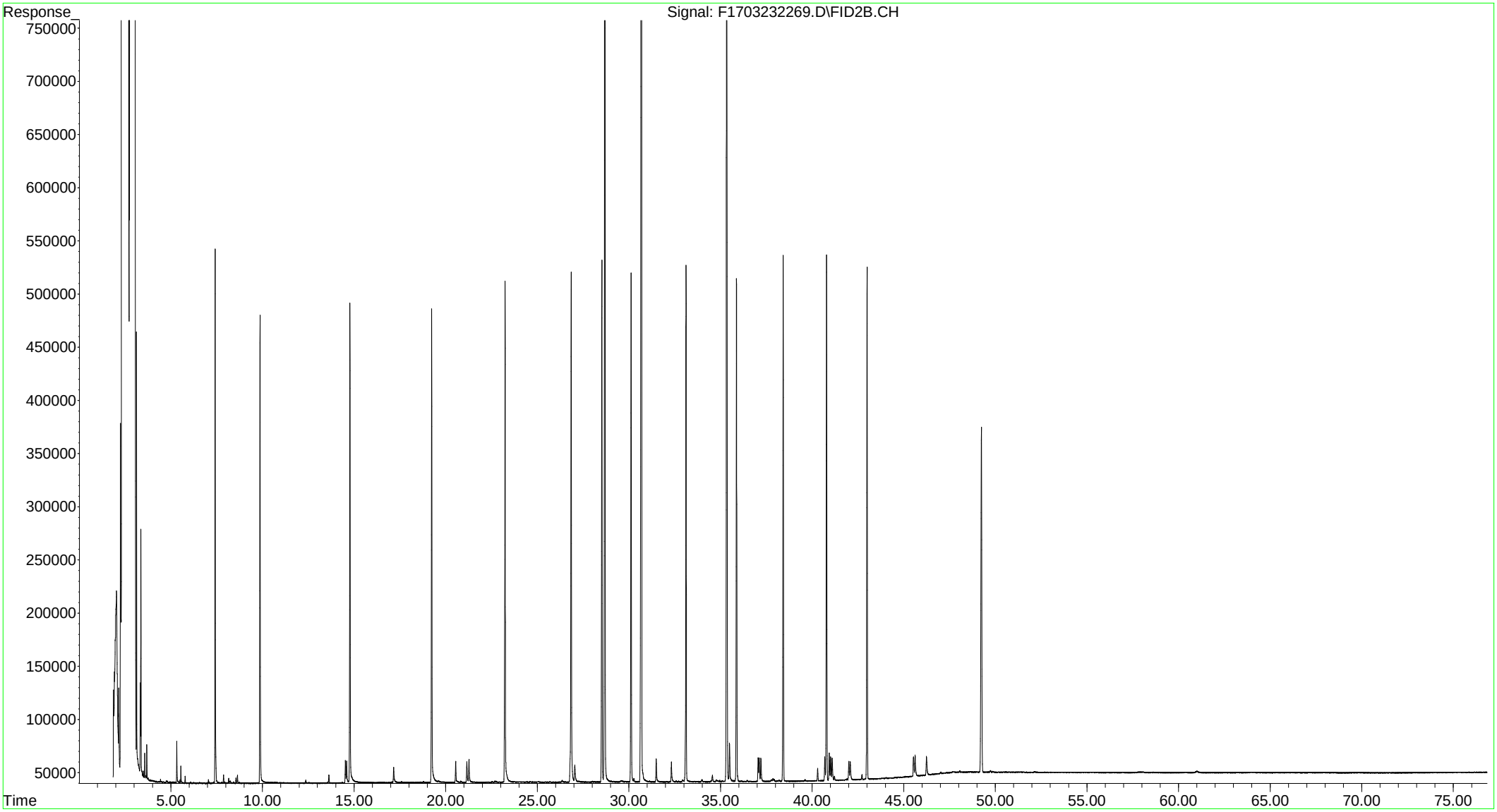
File :O:\Forensics\Data\FID17\2022\MAR\MAR23.SEC\F1703232279.D
Operator : FID17:WR
Acquired : 26 Mar 2022 2:59 am using AcqMethod FID17A.M
Instrument : FID17
Sample Name: L2213796-01,42,,,PRI
Misc Info : WG1619019,WG1618972,ICAL18568
Vial Number: 90



File :O:\Forensics\Data\FID17\2022\MAR\MAR23.SEC\F1703232265.D
Operator : FID17:WR
Acquired : 25 Mar 2022 4:38 pm using AcqMethod FID17A.M
Instrument : FID17
Sample Name: WG1618972-1,42,,
Misc Info : WG1619019,WG1618972,ICAL18568
Vial Number: 83

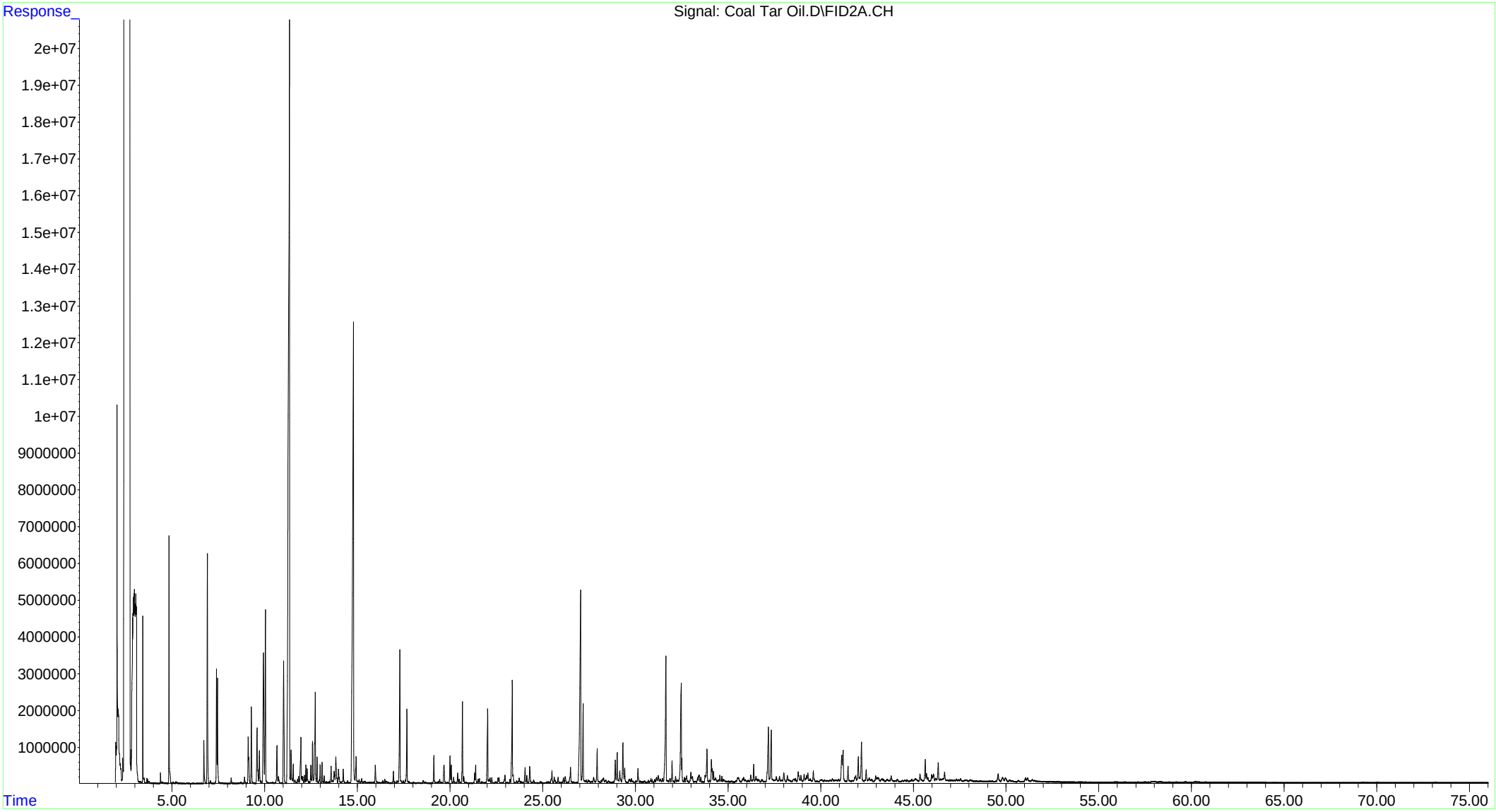


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Operator : FID17:WR
Acquired : 25 Mar 2022 7:35 pm using AcqMethod FID17A.M
Instrument : FID17
Sample Name: WG1618972-2,42,,
Misc Info : WG1619019,WG1618972,ICAL18568
Vial Number: 85

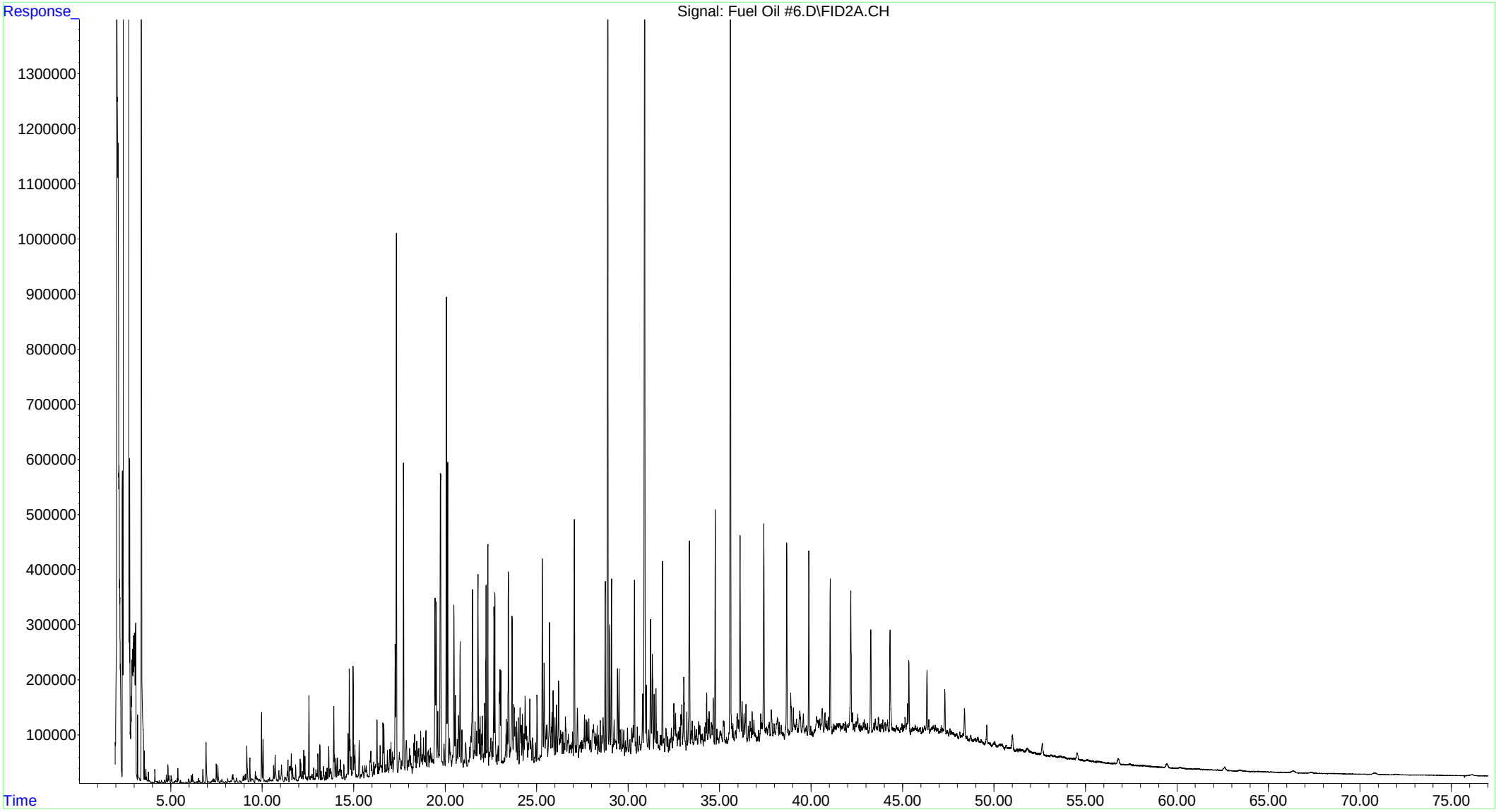


Petroleum Reference Standards

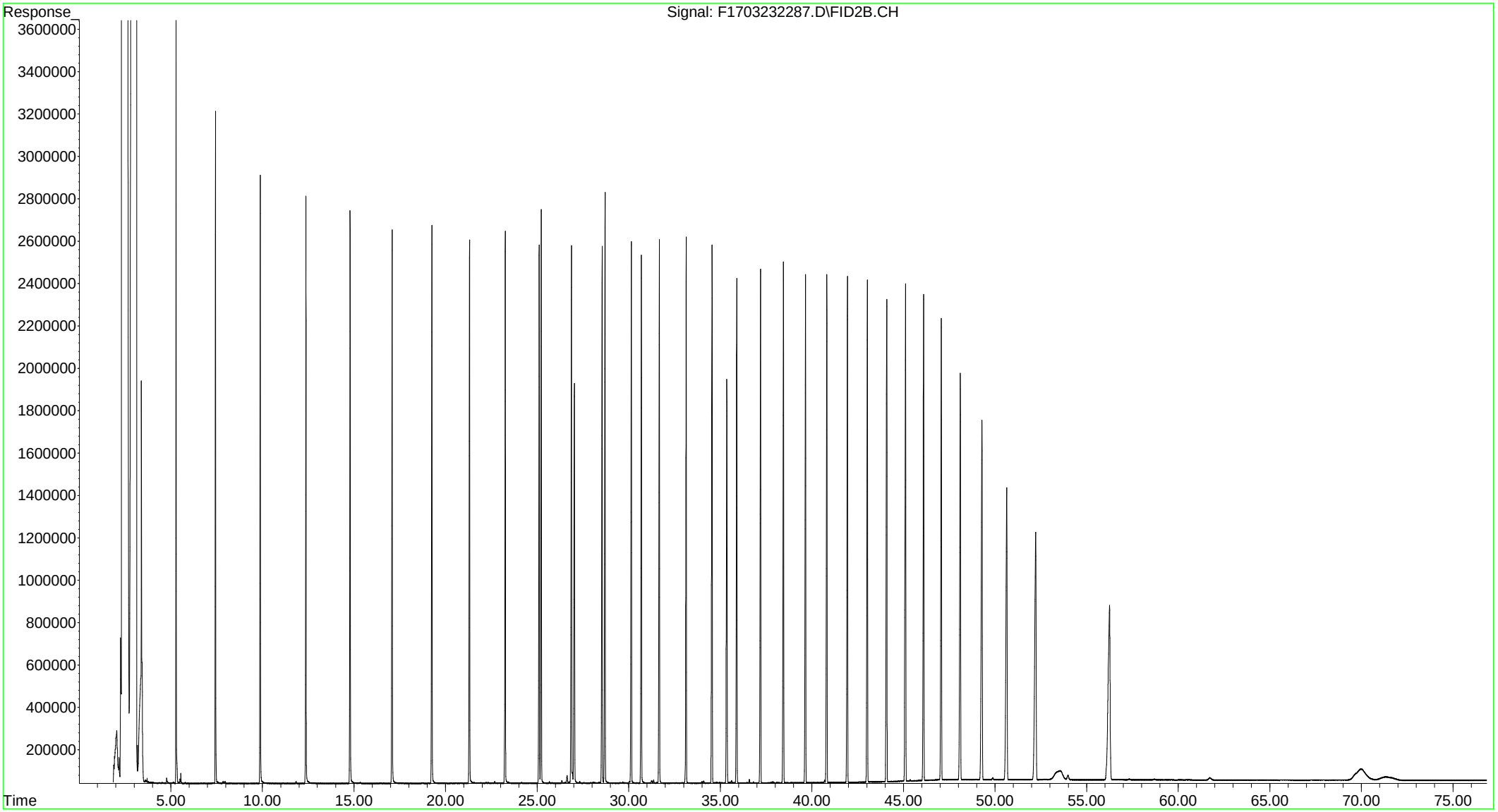
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File       :O:\Forensics\Data\LIBRARY\Hydrocarbon Reference Standards\Co
...         al Tar Oil.D
Operator  : DMP
Instrument :   PAH2
Acquired  : 08 Aug 2013   6:49 pm using AcqMethod FRNC2A.M
Sample    : Coal Tar Oil
Misc Info : Chem Service Pz-123 (F031908K)
```



File :O:\Forensics\LIBRARY\Hydrocarbon Reference Standards\Fuel Oi
... l #6.D
Operator : PAH2:AC
Instrument : PAH 2
Acquired : 22 Nov 2011 7:50 am using AcqMethod FRNC2AF.M
Sample : FUEL OIL #6
Misc Info : 1X F042710F



File :O:\Forensics\Data\FID17\2022\MAR\MAR23.SEC\F1703232287.D
Operator : FID17:WR
Acquired : 26 Mar 2022 8:55 am using AcqMethod FID17A.M
Instrument : FID17
Sample Name: WG1619019-5
Misc Info : WG1619019,FRBE45,ICAL18568
Vial Number: 94



ANALYTICAL REPORT

Lab Number:	L2216294
Client:	Matrix New World Engineering, Inc. 333 West 39th Street, Second Floor New York City, NY 10018
ATTN:	Brian Crespi
Phone:	(212) 324-4251
Project Name:	BPCA
Project Number:	20-1152
Report Date:	04/20/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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

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

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2216294-01	SB-05A(8-10)	SOIL	BATTERY PARK	03/30/22 10:00	03/30/22
L2216294-02	COMP SB-05A	SOIL	BATTERY PARK	03/30/22 10:30	03/30/22

Project Name:	BPCA	**Lab Number:**	L2216294
Project Number:	20-1152	**Report Date:**	04/20/22

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:	BPCA	**Lab Number:**	L2216294
Project Number:	20-1152	**Report Date:**	04/20/22

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

At the client's request, the analysis of Petroleum Hydrocarbon Identification by GC-FID was performed on L2216294-01.

L2216294-02: The Client ID was specified by the client.

Semivolatile Organics

L2216294-01D: The surrogate recoveries are below the acceptance criteria for 2-fluorophenol (0%), phenol-d6 (0%), nitrobenzene-d5 (0%), 2-fluorobiphenyl (0%), 2,4,6-tribromophenol (0%) and 4-terphenyl-d14 (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

Petroleum Hydrocarbon Identification by GC-FID

L2216294-01: The sample was extracted and then analyzed using a gas chromatograph equipped with a flame ionization detector (GC/FID). The temperature program and associated experimental conditions were optimized to obtain maximum resolution in an eighty minute chromatographic run representative of hydrocarbons in the n-Octane (C8) to n-Tetracontane (C40) range. Qualitative evaluation of the sample was conducted by reviewing the sample chromatogram in conjunction with a chromatogram of a normal alkane series generated with the same chromatographic conditions. Chromatograms of hydrocarbon reference materials obtained from our library of 82 reference standards were also utilized to provide the best possible sample match. Quantitative determination of the sample's hydrocarbon concentration was performed in accordance with EPA Method 8015M. The sample's total hydrocarbon concentration and all associated quality control data are included in the report.

The following qualitative information is based on a tentative interpretation of chromatographic pattern

Project Name: BPCA **Lab Number:** L2216294
Project Number: 20-1152 **Report Date:** 04/20/22

Case Narrative (continued)

recognition and boiling point ranges:

Total Petroleum Hydrocarbon Identification

L2216294-01 contains hydrocarbons eluting in the range of n-Nonane (C9) to after the elution of n-Octatriacontane (C38).

Based on the data generated, L2216294-01 contains material eluting in the low to heavy weight ranges of the chromatogram which is similar to coal tar/creosote.

Total Metals

L2216294-01: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

Cyanide, Total

The WG1626613-2 LCS recovery for cyanide, total (71%), associated with L2216294-01, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported. The LCS/LCSD RPD is above the acceptance criteria for cyanide, total (43%).

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: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 04/20/22

ORGANICS

VOLATILES

Project Name: BPCA **Lab Number:** L2216294

Project Number: 20-1152 **Report Date:** 04/20/22

SAMPLE RESULTS

Lab ID: L2216294-01 D2 Date Collected: 03/30/22 10:00
Client ID: SB-05A(8-10) Date Received: 03/30/22
Sample Location: BATTERY PARK Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/08/22 20:07
Analyst: LAC
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	6200	2800	20
1,1-Dichloroethane	ND		ug/kg	1200	180	20
Chloroform	ND		ug/kg	1900	170	20
Carbon tetrachloride	ND		ug/kg	1200	290	20
1,2-Dichloropropane	ND		ug/kg	1200	160	20
Dibromochloromethane	ND		ug/kg	1200	170	20
1,1,2-Trichloroethane	ND		ug/kg	1200	330	20
Tetrachloroethene	ND		ug/kg	620	240	20
Chlorobenzene	ND		ug/kg	620	160	20
Trichlorofluoromethane	ND		ug/kg	5000	860	20
1,2-Dichloroethane	ND		ug/kg	1200	320	20
1,1,1-Trichloroethane	ND		ug/kg	620	210	20
Bromodichloromethane	ND		ug/kg	620	140	20
trans-1,3-Dichloropropene	ND		ug/kg	1200	340	20
cis-1,3-Dichloropropene	ND		ug/kg	620	200	20
1,3-Dichloropropene, Total	ND		ug/kg	620	200	20
1,1-Dichloropropene	ND		ug/kg	620	200	20
Bromoform	ND		ug/kg	5000	310	20
1,1,2,2-Tetrachloroethane	ND		ug/kg	620	210	20
Benzene	ND		ug/kg	620	210	20
Toluene	ND		ug/kg	1200	680	20
Ethylbenzene	350	J	ug/kg	1200	180	20
Chloromethane	ND		ug/kg	5000	1200	20
Bromomethane	ND		ug/kg	2500	720	20
Vinyl chloride	ND		ug/kg	1200	420	20
Chloroethane	ND		ug/kg	2500	560	20
1,1-Dichloroethene	ND		ug/kg	1200	300	20
trans-1,2-Dichloroethene	ND		ug/kg	1900	170	20

Project Name: BPCA **Lab Number:** L2216294

Project Number: 20-1152 **Report Date:** 04/20/22

SAMPLE RESULTS

Lab ID: L2216294-01 D2 Date Collected: 03/30/22 10:00
Client ID: SB-05A(8-10) Date Received: 03/30/22
Sample Location: BATTERY PARK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	620	170	20
1,2-Dichlorobenzene	ND		ug/kg	2500	180	20
1,3-Dichlorobenzene	ND		ug/kg	2500	180	20
1,4-Dichlorobenzene	ND		ug/kg	2500	210	20
Methyl tert butyl ether	ND		ug/kg	2500	250	20
p/m-Xylene	ND		ug/kg	2500	700	20
o-Xylene	ND		ug/kg	1200	360	20
Xylenes, Total	ND		ug/kg	1200	360	20
cis-1,2-Dichloroethene	ND		ug/kg	1200	220	20
1,2-Dichloroethene, Total	ND		ug/kg	1200	170	20
Dibromomethane	ND		ug/kg	2500	300	20
Styrene	ND		ug/kg	1200	240	20
Dichlorodifluoromethane	ND		ug/kg	12000	1100	20
Acetone	ND		ug/kg	12000	6000	20
Carbon disulfide	ND		ug/kg	12000	5700	20
2-Butanone	ND		ug/kg	12000	2800	20
Vinyl acetate	ND		ug/kg	12000	2700	20
4-Methyl-2-pentanone	ND		ug/kg	12000	1600	20
1,2,3-Trichloropropane	ND		ug/kg	2500	160	20
2-Hexanone	ND		ug/kg	12000	1500	20
Bromochloromethane	ND		ug/kg	2500	260	20
2,2-Dichloropropane	ND		ug/kg	2500	250	20
1,2-Dibromoethane	ND		ug/kg	1200	350	20
1,3-Dichloropropane	ND		ug/kg	2500	210	20
1,1,1,2-Tetrachloroethane	ND		ug/kg	620	160	20
Bromobenzene	ND		ug/kg	2500	180	20
n-Butylbenzene	ND		ug/kg	1200	210	20
sec-Butylbenzene	ND		ug/kg	1200	180	20
tert-Butylbenzene	ND		ug/kg	2500	150	20
o-Chlorotoluene	ND		ug/kg	2500	240	20
p-Chlorotoluene	ND		ug/kg	2500	130	20
1,2-Dibromo-3-chloropropane	ND		ug/kg	3700	1200	20
Hexachlorobutadiene	ND		ug/kg	5000	210	20
Isopropylbenzene	ND		ug/kg	1200	140	20
p-Isopropyltoluene	ND		ug/kg	1200	140	20
Naphthalene	610000	E	ug/kg	5000	810	20
Acrylonitrile	ND		ug/kg	5000	1400	20

Project Name: BPCA **Lab Number:** L2216294

Project Number: 20-1152 **Report Date:** 04/20/22

SAMPLE RESULTS

Lab ID: L2216294-01 D2 Date Collected: 03/30/22 10:00
Client ID: SB-05A(8-10) Date Received: 03/30/22
Sample Location: BATTERY PARK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1200	210	20
1,2,3-Trichlorobenzene	ND		ug/kg	2500	400	20
1,2,4-Trichlorobenzene	ND		ug/kg	2500	340	20
1,3,5-Trimethylbenzene	480	J	ug/kg	2500	240	20
1,2,4-Trimethylbenzene	1000	J	ug/kg	2500	420	20
1,4-Dioxane	ND		ug/kg	100000	44000	20
p-Diethylbenzene	550	J	ug/kg	2500	220	20
p-Ethyltoluene	580	J	ug/kg	2500	480	20
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2500	240	20
Ethyl ether	ND		ug/kg	2500	420	20
trans-1,4-Dichloro-2-butene	ND		ug/kg	6200	1800	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	106		70-130

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2216294
Report Date: 04/20/22

SAMPLE RESULTS

Lab ID: L2216294-01 D
Client ID: SB-05A(8-10)
Sample Location: BATTERY PARK

Date Collected: 03/30/22 10:00
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/07/22 03:02
Analyst: MKS
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Naphthalene	560000		ug/kg	25000	4000	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	105		70-130

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2216294
Report Date: 04/20/22

SAMPLE RESULTS

Lab ID: L2216294-02
Client ID: COMP SB-05A
Sample Location: BATTERY PARK

Date Collected: 03/30/22 10:30
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/06/22 14:43
Analyst: MM

TCLP/SPLP Ext. Date: 04/05/22 15:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	84		70-130
dibromofluoromethane	**132**	Q	70-130

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/06/22 09:02
Analyst: MM
TCLP/SPLP Extraction Date: 04/05/22 15:33

Extraction Date: 04/05/22 15:33

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 02 Batch: WG1624101-5					
Chloroform	ND		ug/l	7.5	2.2
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	100		70-130
dibromofluoromethane	123		70-130

Project Name: BPCA **Lab Number:** L2216294

Project Number: 20-1152 **Report Date:** 04/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/06/22 22:06
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1624755-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: BPCA **Lab Number:** L2216294

Project Number: 20-1152 **Report Date:** 04/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/06/22 22:06
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1624755-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2216294
Report Date: 04/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/06/22 22:06
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1624755-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	106		70-130

Project Name: BPCA **Lab Number:** L2216294

Project Number: 20-1152 **Report Date:** 04/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/08/22 11:22
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1626269-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: BPCA **Lab Number:** L2216294

Project Number: 20-1152 **Report Date:** 04/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/08/22 11:22
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1626269-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: BPCA **Lab Number:** L2216294

Project Number: 20-1152 **Report Date:** 04/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/08/22 11:22
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1626269-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 02 Batch: WG1624101-3 WG1624101-4								
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	100		100		63-132	0		20
Tetrachloroethene	97		97		70-130	0		20
Chlorobenzene	100		100		75-130	0		25
1,2-Dichloroethane	100		100		70-130	0		20
Benzene	100		100		70-130	0		25
Vinyl chloride	120		110		55-140	9		20
1,1-Dichloroethene	120		120		61-145	0		25
Trichloroethene	100		100		70-130	0		25
1,4-Dichlorobenzene	100		100		70-130	0		20
2-Butanone	100		96		63-138	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	109		109		70-130
Toluene-d8	99		100		70-130
4-Bromofluorobenzene	90		89		70-130
dibromofluoromethane	107		106		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1624755-3 WG1624755-4								
Methylene chloride	97		93		70-130	4		30
1,1-Dichloroethane	108		104		70-130	4		30
Chloroform	105		103		70-130	2		30
Carbon tetrachloride	121		116		70-130	4		30
1,2-Dichloropropane	101		98		70-130	3		30
Dibromochloromethane	107		107		70-130	0		30
1,1,2-Trichloroethane	95		94		70-130	1		30
Tetrachloroethene	124		122		70-130	2		30
Chlorobenzene	106		103		70-130	3		30
Trichlorofluoromethane	134		129		70-139	4		30
1,2-Dichloroethane	109		107		70-130	2		30
1,1,1-Trichloroethane	121		118		70-130	3		30
Bromodichloromethane	107		104		70-130	3		30
trans-1,3-Dichloropropene	102		100		70-130	2		30
cis-1,3-Dichloropropene	110		108		70-130	2		30
1,1-Dichloropropene	111		107		70-130	4		30
Bromoform	100		100		70-130	0		30
1,1,2,2-Tetrachloroethane	80		80		70-130	0		30
Benzene	105		100		70-130	5		30
Toluene	100		97		70-130	3		30
Ethylbenzene	106		101		70-130	5		30
Chloromethane	104		97		52-130	7		30
Bromomethane	105		102		57-147	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1624755-3 WG1624755-4								
Vinyl chloride	109		100		67-130	9		30
Chloroethane	107		100		50-151	7		30
1,1-Dichloroethene	131		126		65-135	4		30
trans-1,2-Dichloroethene	116		110		70-130	5		30
Trichloroethene	112		109		70-130	3		30
1,2-Dichlorobenzene	104		104		70-130	0		30
1,3-Dichlorobenzene	108		106		70-130	2		30
1,4-Dichlorobenzene	108		104		70-130	4		30
Methyl tert butyl ether	113		111		66-130	2		30
p/m-Xylene	112		108		70-130	4		30
o-Xylene	111		108		70-130	3		30
cis-1,2-Dichloroethene	109		106		70-130	3		30
Dibromomethane	104		102		70-130	2		30
Styrene	112		109		70-130	3		30
Dichlorodifluoromethane	103		99		30-146	4		30
Acetone	126		118		54-140	7		30
Carbon disulfide	117		112		59-130	4		30
2-Butanone	101		102		70-130	1		30
Vinyl acetate	105		99		70-130	6		30
4-Methyl-2-pentanone	86		85		70-130	1		30
1,2,3-Trichloropropane	86		85		68-130	1		30
2-Hexanone	95		93		70-130	2		30
Bromochloromethane	116		113		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1624755-3 WG1624755-4								
2,2-Dichloropropane	123		117		70-130	5		30
1,2-Dibromoethane	106		104		70-130	2		30
1,3-Dichloropropane	94		92		69-130	2		30
1,1,1,2-Tetrachloroethane	112		110		70-130	2		30
Bromobenzene	108		105		70-130	3		30
n-Butylbenzene	102		99		70-130	3		30
sec-Butylbenzene	103		101		70-130	2		30
tert-Butylbenzene	108		105		70-130	3		30
o-Chlorotoluene	97		93		70-130	4		30
p-Chlorotoluene	96		94		70-130	2		30
1,2-Dibromo-3-chloropropane	97		97		68-130	0		30
Hexachlorobutadiene	**133**	Q	**133**	Q	67-130	0		30
Isopropylbenzene	102		99		70-130	3		30
p-Isopropyltoluene	111		109		70-130	2		30
Naphthalene	103		104		70-130	1		30
Acrylonitrile	109		105		70-130	4		30
n-Propylbenzene	98		95		70-130	3		30
1,2,3-Trichlorobenzene	117		118		70-130	1		30
1,2,4-Trichlorobenzene	124		124		70-130	0		30
1,3,5-Trimethylbenzene	104		102		70-130	2		30
1,2,4-Trimethylbenzene	106		102		70-130	4		30
1,4-Dioxane	97		95		65-136	2		30
p-Diethylbenzene	113		109		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BPCA

Project Number: 20-1152

Lab Number: L2216294

Report Date: 04/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1624755-3 WG1624755-4								
p-Ethyltoluene	103		100		70-130	3		30
1,2,4,5-Tetramethylbenzene	114		112		70-130	2		30
Ethyl ether	**132**	Q	130		67-130	2		30
trans-1,4-Dichloro-2-butene	89		90		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107		104		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	93		92		70-130
Dibromofluoromethane	105		106		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1626269-3 WG1626269-4								
Methylene chloride	90		89		70-130	1		30
1,1-Dichloroethane	100		99		70-130	1		30
Chloroform	94		95		70-130	1		30
Carbon tetrachloride	108		107		70-130	1		30
1,2-Dichloropropane	94		94		70-130	0		30
Dibromochloromethane	102		104		70-130	2		30
1,1,2-Trichloroethane	95		95		70-130	0		30
Tetrachloroethene	111		113		70-130	2		30
Chlorobenzene	98		99		70-130	1		30
Trichlorofluoromethane	121		119		70-139	2		30
1,2-Dichloroethane	98		101		70-130	3		30
1,1,1-Trichloroethane	107		108		70-130	1		30
Bromodichloromethane	97		98		70-130	1		30
trans-1,3-Dichloropropene	100		101		70-130	1		30
cis-1,3-Dichloropropene	102		102		70-130	0		30
1,1-Dichloropropene	103		103		70-130	0		30
Bromoform	99		102		70-130	3		30
1,1,2,2-Tetrachloroethane	86		88		70-130	2		30
Benzene	96		95		70-130	1		30
Toluene	94		96		70-130	2		30
Ethylbenzene	99		99		70-130	0		30
Chloromethane	97		94		52-130	3		30
Bromomethane	94		94		57-147	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1626269-3 WG1626269-4								
Vinyl chloride	108		103		67-130	5		30
Chloroethane	106		102		50-151	4		30
1,1-Dichloroethene	120		118		65-135	2		30
trans-1,2-Dichloroethene	104		102		70-130	2		30
Trichloroethene	102		100		70-130	2		30
1,2-Dichlorobenzene	100		101		70-130	1		30
1,3-Dichlorobenzene	100		101		70-130	1		30
1,4-Dichlorobenzene	99		100		70-130	1		30
Methyl tert butyl ether	106		107		66-130	1		30
p/m-Xylene	103		103		70-130	0		30
o-Xylene	102		104		70-130	2		30
cis-1,2-Dichloroethene	98		98		70-130	0		30
Dibromomethane	95		97		70-130	2		30
Styrene	104		105		70-130	1		30
Dichlorodifluoromethane	93		89		30-146	4		30
Acetone	122		124		54-140	2		30
Carbon disulfide	110		108		59-130	2		30
2-Butanone	99		102		70-130	3		30
Vinyl acetate	94		101		70-130	7		30
4-Methyl-2-pentanone	86		89		70-130	3		30
1,2,3-Trichloropropane	90		92		68-130	2		30
2-Hexanone	97		99		70-130	2		30
Bromochloromethane	102		101		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1626269-3 WG1626269-4								
2,2-Dichloropropane	107		107		70-130	0		30
1,2-Dibromoethane	102		105		70-130	3		30
1,3-Dichloropropane	93		95		69-130	2		30
1,1,1,2-Tetrachloroethane	103		103		70-130	0		30
Bromobenzene	102		103		70-130	1		30
n-Butylbenzene	96		98		70-130	2		30
sec-Butylbenzene	99		99		70-130	0		30
tert-Butylbenzene	102		103		70-130	1		30
o-Chlorotoluene	94		94		70-130	0		30
p-Chlorotoluene	94		94		70-130	0		30
1,2-Dibromo-3-chloropropane	98		99		68-130	1		30
Hexachlorobutadiene	116		119		67-130	3		30
Isopropylbenzene	99		99		70-130	0		30
p-Isopropyltoluene	104		104		70-130	0		30
Naphthalene	102		105		70-130	3		30
Acrylonitrile	105		108		70-130	3		30
n-Propylbenzene	95		95		70-130	0		30
1,2,3-Trichlorobenzene	109		113		70-130	4		30
1,2,4-Trichlorobenzene	113		114		70-130	1		30
1,3,5-Trimethylbenzene	100		100		70-130	0		30
1,2,4-Trimethylbenzene	100		100		70-130	0		30
1,4-Dioxane	95		95		65-136	0		30
p-Diethylbenzene	105		105		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1626269-3 WG1626269-4								
p-Ethyltoluene	98		99		70-130	1		30
1,2,4,5-Tetramethylbenzene	108		107		70-130	1		30
Ethyl ether	128		128		67-130	0		30
trans-1,4-Dichloro-2-butene	91		98		70-130	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107		108		70-130
Toluene-d8	103		104		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	105		106		70-130

SEMIVOLATILES

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2216294
Report Date: 04/20/22

SAMPLE RESULTS

Lab ID: L2216294-01 D
Client ID: SB-05A(8-10)
Sample Location: BATTERY PARK

Date Collected: 03/30/22 10:00
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/20/22 12:48
Analyst: IM
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 04/04/22 03:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	52000		ug/kg	3100	410	20
1,2,4-Trichlorobenzene	ND		ug/kg	3900	450	20
Hexachlorobenzene	ND		ug/kg	2400	440	20
Bis(2-chloroethyl)ether	ND		ug/kg	3500	530	20
2-Chloronaphthalene	ND		ug/kg	3900	390	20
1,2-Dichlorobenzene	ND		ug/kg	3900	710	20
1,3-Dichlorobenzene	ND		ug/kg	3900	680	20
1,4-Dichlorobenzene	ND		ug/kg	3900	690	20
3,3'-Dichlorobenzidine	ND		ug/kg	3900	1000	20
2,4-Dinitrotoluene	ND		ug/kg	3900	790	20
2,6-Dinitrotoluene	ND		ug/kg	3900	680	20
Fluoranthene	61000		ug/kg	2400	450	20
4-Chlorophenyl phenyl ether	ND		ug/kg	3900	420	20
4-Bromophenyl phenyl ether	ND		ug/kg	3900	600	20
Bis(2-chloroisopropyl)ether	ND		ug/kg	4700	670	20
Bis(2-chloroethoxy)methane	ND		ug/kg	4200	390	20
Hexachlorobutadiene	ND		ug/kg	3900	580	20
Hexachlorocyclopentadiene	ND		ug/kg	11000	3600	20
Hexachloroethane	ND		ug/kg	3100	640	20
Isophorone	ND		ug/kg	3500	510	20
Naphthalene	86000		ug/kg	3900	480	20
Nitrobenzene	ND		ug/kg	3500	580	20
NDPA/DPA	ND		ug/kg	3100	450	20
n-Nitrosodi-n-propylamine	ND		ug/kg	3900	610	20
Bis(2-ethylhexyl)phthalate	ND		ug/kg	3900	1400	20
Butyl benzyl phthalate	ND		ug/kg	3900	990	20
Di-n-butylphthalate	ND		ug/kg	3900	750	20
Di-n-octylphthalate	ND		ug/kg	3900	1300	20

Project Name: BPCA **Lab Number:** L2216294

Project Number: 20-1152 **Report Date:** 04/20/22

SAMPLE RESULTS

Lab ID: L2216294-01 D Date Collected: 03/30/22 10:00
Client ID: SB-05A(8-10) Date Received: 03/30/22
Sample Location: BATTERY PARK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	3900	360	20
Dimethyl phthalate	ND		ug/kg	3900	830	20
Benzo(a)anthracene	13000		ug/kg	2400	440	20
Benzo(a)pyrene	5900		ug/kg	3100	960	20
Benzo(b)fluoranthene	9100		ug/kg	2400	660	20
Benzo(k)fluoranthene	2400		ug/kg	2400	630	20
Chrysene	8700		ug/kg	2400	410	20
Acenaphthylene	1400	J	ug/kg	3100	610	20
Anthracene	12000		ug/kg	2400	770	20
Benzo(ghi)perylene	1800	J	ug/kg	3100	460	20
Fluorene	33000		ug/kg	3900	380	20
Phenanthrene	100000		ug/kg	2400	480	20
Dibenzo(a,h)anthracene	450	J	ug/kg	2400	450	20
Indeno(1,2,3-cd)pyrene	2400	J	ug/kg	3100	550	20
Pyrene	43000		ug/kg	2400	390	20
Biphenyl	9300		ug/kg	9000	510	20
4-Chloroaniline	ND		ug/kg	3900	720	20
2-Nitroaniline	ND		ug/kg	3900	760	20
3-Nitroaniline	ND		ug/kg	3900	740	20
4-Nitroaniline	ND		ug/kg	3900	1600	20
Dibenzofuran	29000		ug/kg	3900	370	20
2-Methylnaphthalene	39000		ug/kg	4700	480	20
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	3900	410	20
Acetophenone	ND		ug/kg	3900	490	20
2,4,6-Trichlorophenol	ND		ug/kg	2400	750	20
p-Chloro-m-cresol	ND		ug/kg	3900	590	20
2-Chlorophenol	ND		ug/kg	3900	460	20
2,4-Dichlorophenol	ND		ug/kg	3500	630	20
2,4-Dimethylphenol	ND		ug/kg	3900	1300	20
2-Nitrophenol	ND		ug/kg	8500	1500	20
4-Nitrophenol	ND		ug/kg	5500	1600	20
2,4-Dinitrophenol	ND		ug/kg	19000	1800	20
4,6-Dinitro-o-cresol	ND		ug/kg	10000	1900	20
Pentachlorophenol	ND		ug/kg	3100	860	20
Phenol	ND		ug/kg	3900	590	20
2-Methylphenol	ND		ug/kg	3900	610	20
3-Methylphenol/4-Methylphenol	ND		ug/kg	5700	620	20

Project Name: BPCA **Lab Number:** L2216294

Project Number: 20-1152 **Report Date:** 04/20/22

SAMPLE RESULTS

Lab ID: L2216294-01 D Date Collected: 03/30/22 10:00
Client ID: SB-05A(8-10) Date Received: 03/30/22
Sample Location: BATTERY PARK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	3900	750	20
Benzoic Acid	ND		ug/kg	13000	4000	20
Benzyl Alcohol	ND		ug/kg	3900	1200	20
Carbazole	5200		ug/kg	3900	380	20
1,4-Dioxane	ND		ug/kg	590	180	20
Tentatively Identified Compounds						
Total TIC Compounds	80000	J	ug/kg			20
Unknown	3480	J	ug/kg			20
Unknown Naphthalene	4040	J	ug/kg			20
Unknown Naphthalene	5230	J	ug/kg			20
Unknown PAH	4460	J	ug/kg			20
Unknown PAH	12900	J	ug/kg			20
Unknown	4720	J	ug/kg			20
Unknown Naphthalene	4560	J	ug/kg			20
Unknown Naphthalene	5530	J	ug/kg			20
Unknown PAH	3560	J	ug/kg			20
Unknown Thiophene	8210	J	ug/kg			20
Unknown PAH	3800	J	ug/kg			20
Unknown PAH	6360	J	ug/kg			20
Unknown	3970	J	ug/kg			20
Unknown	4070	J	ug/kg			20
Unknown	5140	J	ug/kg			20

Project Name: BPCA **Lab Number:** L2216294

Project Number: 20-1152 **Report Date:** 04/20/22

SAMPLE RESULTS

Lab ID: L2216294-01 D Date Collected: 03/30/22 10:00
Client ID: SB-05A(8-10) Date Received: 03/30/22
Sample Location: BATTERY PARK Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**0**	Q	25-120
Phenol-d6	**0**	Q	10-120
Nitrobenzene-d5	**0**	Q	23-120
2-Fluorobiphenyl	**0**	Q	30-120
2,4,6-Tribromophenol	**0**	Q	10-136
4-Terphenyl-d14	**0**	Q	18-120

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

SAMPLE RESULTS

Lab ID: L2216294-02
Client ID: COMP SB-05A
Sample Location: BATTERY PARK

Date Collected: 03/30/22 10:30
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/16/22 01:41
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 04/15/22 07:20

TCLP/SPLP Ext. Date: 04/08/22 21:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		21-120
Phenol-d6	66		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	61		15-120
2,4,6-Tribromophenol	70		10-120
4-Terphenyl-d14	67		33-120

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/06/22 12:02
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 04/04/22 03:59

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1622983-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	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.

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/06/22 12:02
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 04/04/22 03:59

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1622983-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
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.

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/06/22 12:02
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 04/04/22 03:59

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1622983-1					
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.
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.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	98		30-120
2,4,6-Tribromophenol	117		10-136
4-Terphenyl-d14	94		18-120

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/15/22 22:02
Analyst: JG
TCLP/SPLP Extraction Date: 04/08/22 21:53

Extraction Method: EPA 3510C
Extraction Date: 04/15/22 07:20

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 02 Batch: WG1627551-1					
Hexachlorobenzene	ND		ug/l	10	3.4
2,4-Dinitrotoluene	ND		ug/l	25	1.9
Hexachlorobutadiene	ND		ug/l	10	3.0
Hexachloroethane	ND		ug/l	10	2.2
Nitrobenzene	ND		ug/l	10	3.3
2,4,6-Trichlorophenol	ND		ug/l	25	2.5
Pentachlorophenol	ND		ug/l	50	9.8
2-Methylphenol	ND		ug/l	25	5.5
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8
2,4,5-Trichlorophenol	ND		ug/l	25	1.9
Pyridine	ND		ug/l	18	4.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		21-120
Phenol-d6	65		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	57		15-120
2,4,6-Tribromophenol	65		10-120
4-Terphenyl-d14	64		33-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1622983-2 WG1622983-3								
Acenaphthene	86		86		31-137	0		50
1,2,4-Trichlorobenzene	91		88		38-107	3		50
Hexachlorobenzene	100		102		40-140	2		50
Bis(2-chloroethyl)ether	73		73		40-140	0		50
2-Chloronaphthalene	92		90		40-140	2		50
1,2-Dichlorobenzene	85		81		40-140	5		50
1,3-Dichlorobenzene	85		82		40-140	4		50
1,4-Dichlorobenzene	85		80		28-104	6		50
3,3'-Dichlorobenzidine	69		67		40-140	3		50
2,4-Dinitrotoluene	93		94		40-132	1		50
2,6-Dinitrotoluene	96		99		40-140	3		50
Fluoranthene	90		91		40-140	1		50
4-Chlorophenyl phenyl ether	88		91		40-140	3		50
4-Bromophenyl phenyl ether	97		98		40-140	1		50
Bis(2-chloroisopropyl)ether	55		52		40-140	6		50
Bis(2-chloroethoxy)methane	75		74		40-117	1		50
Hexachlorobutadiene	101		102		40-140	1		50
Hexachlorocyclopentadiene	98		95		40-140	3		50
Hexachloroethane	83		78		40-140	6		50
Isophorone	76		72		40-140	5		50
Naphthalene	85		84		40-140	1		50
Nitrobenzene	80		79		40-140	1		50
NDPA/DPA	90		91		36-157	1		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1622983-2 WG1622983-3								
n-Nitrosodi-n-propylamine	76		71		32-121	7		50
Bis(2-ethylhexyl)phthalate	95		101		40-140	6		50
Butyl benzyl phthalate	93		95		40-140	2		50
Di-n-butylphthalate	96		95		40-140	1		50
Di-n-octylphthalate	94		96		40-140	2		50
Diethyl phthalate	91		93		40-140	2		50
Dimethyl phthalate	91		93		40-140	2		50
Benzo(a)anthracene	88		88		40-140	0		50
Benzo(a)pyrene	90		90		40-140	0		50
Benzo(b)fluoranthene	90		95		40-140	5		50
Benzo(k)fluoranthene	90		85		40-140	6		50
Chrysene	86		86		40-140	0		50
Acenaphthylene	92		93		40-140	1		50
Anthracene	87		87		40-140	0		50
Benzo(ghi)perylene	86		85		40-140	1		50
Fluorene	89		88		40-140	1		50
Phenanthrene	87		87		40-140	0		50
Dibenzo(a,h)anthracene	89		87		40-140	2		50
Indeno(1,2,3-cd)pyrene	99		98		40-140	1		50
Pyrene	89		91		35-142	2		50
Biphenyl	87		89		37-127	2		50
4-Chloroaniline	54		55		40-140	2		50
2-Nitroaniline	92		92		47-134	0		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1622983-2 WG1622983-3								
3-Nitroaniline	57		60		26-129	5		50
4-Nitroaniline	78		80		41-125	3		50
Dibenzofuran	88		90		40-140	2		50
2-Methylnaphthalene	88		87		40-140	1		50
1,2,4,5-Tetrachlorobenzene	96		95		40-117	1		50
Acetophenone	84		83		14-144	1		50
2,4,6-Trichlorophenol	99		96		30-130	3		50
p-Chloro-m-cresol	94		96		26-103	2		50
2-Chlorophenol	86		86		25-102	0		50
2,4-Dichlorophenol	96		93		30-130	3		50
2,4-Dimethylphenol	90		89		30-130	1		50
2-Nitrophenol	89		85		30-130	5		50
4-Nitrophenol	95		96		11-114	1		50
2,4-Dinitrophenol	81		77		4-130	5		50
4,6-Dinitro-o-cresol	87		88		10-130	1		50
Pentachlorophenol	86		83		17-109	4		50
Phenol	84		82		26-90	2		50
2-Methylphenol	88		86		30-130.	2		50
3-Methylphenol/4-Methylphenol	92		88		30-130	4		50
2,4,5-Trichlorophenol	101		97		30-130	4		50
Benzoic Acid	43		44		10-110	2		50
Benzyl Alcohol	89		86		40-140	3		50
Carbazole	88		87		54-128	1		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1622983-2 WG1622983-3								
1,4-Dioxane	46		47		40-140	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	88		82		25-120
Phenol-d6	85		79		10-120
Nitrobenzene-d5	82		77		23-120
2-Fluorobiphenyl	92		90		30-120
2,4,6-Tribromophenol	107		106		10-136
4-Terphenyl-d14	92		91		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 02 Batch: WG1627551-2 WG1627551-3								
Hexachlorobenzene	73		64		40-140	13		30
2,4-Dinitrotoluene	83		74		40-132	11		30
Hexachlorobutadiene	46		40		28-111	14		30
Hexachloroethane	50		45		21-105	11		30
Nitrobenzene	78		72		40-140	8		30
2,4,6-Trichlorophenol	80		71		30-130	12		30
Pentachlorophenol	80		72		9-103	11		30
2-Methylphenol	76		73		30-130	4		30
3-Methylphenol/4-Methylphenol	76		75		30-130	1		30
2,4,5-Trichlorophenol	81		72		30-130	12		30
Pyridine	32		20		10-66	**46**	Q	30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	71		70		21-120
Phenol-d6	68		70		10-120
Nitrobenzene-d5	75		71		23-120
2-Fluorobiphenyl	70		63		15-120
2,4,6-Tribromophenol	81		69		10-120
4-Terphenyl-d14	69		61		33-120

PETROLEUM HYDROCARBONS

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

SAMPLE RESULTS

Lab ID: L2216294-01
Client ID: SB-05A(8-10)
Sample Location: BATTERY PARK

Date Collected: 03/30/22 10:00
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 04/06/22 23:28
Analyst: DP
Percent Solids: 78%

Extraction Method: ALPHA OP-013
Extraction Date: 04/05/22 13:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	6830		mg/kg	35.7	17.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	104		50-130
d50-Tetracosane	120		50-130

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 04/06/22 17:43
Analyst: DP

Extraction Method: ALPHA OP-013
Extraction Date: 04/05/22 13:21

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab for sample(s): 01 Batch: WG1623665-1					
Total Petroleum Hydrocarbons (C9-C44)	ND		mg/kg	2.20	1.10

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	100		50-130
d50-Tetracosane	99		50-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab Associated sample(s): 01 Batch: WG1623665-2 WG1623665-3								
Nonane (C9)	84		80		50-130	5		30
Decane (C10)	93		89		50-130	4		30
Dodecane (C12)	98		94		50-130	4		30
Tetradecane (C14)	100		95		50-130	5		30
Hexadecane (C16)	106		102		50-130	4		30
Octadecane (C18)	108		104		50-130	4		30
Nonadecane (C19)	103		100		50-130	3		30
Eicosane (C20)	102		99		50-130	3		30
Docosane (C22)	102		99		50-130	3		30
Tetracosane (C24)	107		103		50-130	4		30
Hexacosane (C26)	103		100		50-130	3		30
Octacosane (C28)	102		99		50-130	3		30
Triacontane (C30)	103		99		50-130	4		30
Hexatriacontane (C36)	95		90		50-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	102		98		50-130
d50-Tetracosane	100		97		50-130

PCBS

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2216294
Report Date: 04/20/22

SAMPLE RESULTS

Lab ID: L2216294-01
Client ID: SB-05A(8-10)
Sample Location: BATTERY PARK

Date Collected: 03/30/22 10:00
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/05/22 12:30
Analyst: JM
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 04/04/22 05:52
Cleanup Method: EPA 3665A
Cleanup Date: 04/04/22
Cleanup Method: EPA 3660B
Cleanup Date: 04/04/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.8	3.62	1	A
Aroclor 1221	ND		ug/kg	40.8	4.08	1	A
Aroclor 1232	ND		ug/kg	40.8	8.64	1	A
Aroclor 1242	ND		ug/kg	40.8	5.49	1	A
Aroclor 1248	ND		ug/kg	40.8	6.11	1	A
Aroclor 1254	ND		ug/kg	40.8	4.46	1	A
Aroclor 1260	ND		ug/kg	40.8	7.53	1	A
Aroclor 1262	ND		ug/kg	40.8	5.18	1	A
Aroclor 1268	ND		ug/kg	40.8	4.22	1	A
PCBs, Total	ND		ug/kg	40.8	3.62	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	**162**	Q	30-150	B

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 04/05/22 10:15
Analyst: JM

Extraction Method: EPA 3546
Extraction Date: 04/03/22 14:00
Cleanup Method: EPA 3665A
Cleanup Date: 04/03/22
Cleanup Method: EPA 3660B
Cleanup Date: 04/04/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1622928-1						
Aroclor 1016	ND		ug/kg	31.6	2.81	A
Aroclor 1221	ND		ug/kg	31.6	3.17	A
Aroclor 1232	ND		ug/kg	31.6	6.70	A
Aroclor 1242	ND		ug/kg	31.6	4.26	A
Aroclor 1248	ND		ug/kg	31.6	4.74	A
Aroclor 1254	ND		ug/kg	31.6	3.46	A
Aroclor 1260	ND		ug/kg	31.6	5.84	A
Aroclor 1262	ND		ug/kg	31.6	4.01	A
Aroclor 1268	ND		ug/kg	31.6	3.27	A
PCBs, Total	ND		ug/kg	31.6	2.81	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	65		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1622928-2 WG1622928-3									
Aroclor 1016	56		50		40-140	11		50	A
Aroclor 1260	62		55		40-140	12		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		51		30-150	A
Decachlorobiphenyl	71		65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		57		30-150	B
Decachlorobiphenyl	67		61		30-150	B

PESTICIDES

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2216294
Report Date: 04/20/22

SAMPLE RESULTS

Lab ID: L2216294-01
Client ID: SB-05A(8-10)
Sample Location: BATTERY PARK

Date Collected: 03/30/22 10:00
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/05/22 17:26
Analyst: JAW
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 04/04/22 20:46
Cleanup Method: EPA 3620B
Cleanup Date: 04/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.99	0.390	1	A
Lindane	ND		ug/kg	0.830	0.371	1	A
Alpha-BHC	ND		ug/kg	0.830	0.236	1	A
Beta-BHC	ND		ug/kg	1.99	0.755	1	A
Heptachlor	ND		ug/kg	0.996	0.446	1	A
Aldrin	ND		ug/kg	1.99	0.701	1	A
Heptachlor epoxide	ND		ug/kg	3.73	1.12	1	A
Endrin	ND		ug/kg	0.830	0.340	1	A
Endrin aldehyde	ND		ug/kg	2.49	0.871	1	A
Endrin ketone	ND		ug/kg	1.99	0.513	1	A
Dieldrin	ND		ug/kg	1.24	0.622	1	A
4,4'-DDE	ND		ug/kg	1.99	0.460	1	A
4,4'-DDD	7.65	P	ug/kg	1.99	0.710	1	B
4,4'-DDT	ND		ug/kg	3.73	1.60	1	A
Endosulfan I	ND		ug/kg	1.99	0.470	1	A
Endosulfan II	ND		ug/kg	1.99	0.666	1	A
Endosulfan sulfate	ND		ug/kg	0.830	0.395	1	A
Methoxychlor	ND		ug/kg	3.73	1.16	1	A
Toxaphene	ND		ug/kg	37.3	10.4	1	A
cis-Chlordane	ND		ug/kg	2.49	0.694	1	A
trans-Chlordane	ND		ug/kg	2.49	0.657	1	A
Chlordane	ND		ug/kg	16.6	6.60	1	A

Project Name: BPCA **Lab Number:** L2216294

Project Number: 20-1152 **Report Date:** 04/20/22

SAMPLE RESULTS

Lab ID: L2216294-01 Date Collected: 03/30/22 10:00

Client ID: SB-05A(8-10) Date Received: 03/30/22

Sample Location: BATTERY PARK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	**556**	Q	30-150	B

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

SAMPLE RESULTS

Lab ID: L2216294-02
Client ID: COMP SB-05A
Sample Location: BATTERY PARK

Date Collected: 03/30/22 10:30
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/18/22 13:07
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 04/15/22 07:24

TCLP/SPLP Ext. Date: 04/08/22 21:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Pesticides by EPA 1311 - Westborough Lab							
Lindane	ND		ug/l	0.100	0.022	1	A
Heptachlor	ND		ug/l	0.100	0.016	1	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	1	A
Endrin	ND		ug/l	0.200	0.021	1	A
Methoxychlor	ND		ug/l	1.00	0.034	1	A
Toxaphene	ND		ug/l	1.00	0.314	1	A
Chlordane	ND		ug/l	1.00	0.232	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	103		30-150	A
Decachlorobiphenyl	130		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	127		30-150	B

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

SAMPLE RESULTS

Lab ID: L2216294-02
Client ID: COMP SB-05A
Sample Location: BATTERY PARK

Date Collected: 03/30/22 10:30
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 04/14/22 13:16
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 04/13/22 15:52

TCLP/SPLP Ext. Date: 04/08/22 21:53
Methylation Date: 04/13/22 23:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Herbicides by EPA 1311 - Westborough Lab							
2,4-D	ND		mg/l	0.025	0.001	1	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	33		30-150	A
DCAA	**28**	Q	30-150	B

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/05/22 14:08
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 04/04/22 20:46
Cleanup Method: EPA 3620B
Cleanup Date: 04/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1623401-1						
Delta-BHC	ND		ug/kg	1.52	0.297	A
Lindane	ND		ug/kg	0.632	0.282	A
Alpha-BHC	ND		ug/kg	0.632	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.575	A
Heptachlor	ND		ug/kg	0.758	0.340	A
Aldrin	ND		ug/kg	1.52	0.534	A
Heptachlor epoxide	ND		ug/kg	2.84	0.853	A
Endrin	ND		ug/kg	0.632	0.259	A
Endrin aldehyde	ND		ug/kg	1.90	0.664	A
Endrin ketone	ND		ug/kg	1.52	0.391	A
Dieldrin	ND		ug/kg	0.948	0.474	A
4,4'-DDE	ND		ug/kg	1.52	0.351	A
4,4'-DDD	ND		ug/kg	1.52	0.541	A
4,4'-DDT	ND		ug/kg	2.84	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.358	A
Endosulfan II	ND		ug/kg	1.52	0.507	A
Endosulfan sulfate	ND		ug/kg	0.632	0.301	A
Methoxychlor	ND		ug/kg	2.84	0.885	A
Toxaphene	ND		ug/kg	28.4	7.96	A
cis-Chlordane	ND		ug/kg	1.90	0.528	A
trans-Chlordane	ND		ug/kg	1.90	0.501	A
Chlordane	ND		ug/kg	12.6	5.02	A

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/05/22 14:08
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 04/04/22 20:46
Cleanup Method: EPA 3620B
Cleanup Date: 04/05/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1623401-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	98		30-150	B

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2216294
Report Date: 04/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 04/14/22 12:21
Analyst: EJL
TCLP/SPLP Extraction Date: 04/08/22 21:53
Methylation Date: 04/13/22 23:04

Extraction Method: EPA 8151A
Extraction Date: 04/13/22 15:52

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Herbicides by EPA 1311 - Westborough Lab for sample(s): 02 Batch: WG1626883-1						
2,4-D	ND		mg/l	0.025	0.001	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	58		30-150	A
DCAA	48		30-150	B

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/18/22 12:29
Analyst: JAW
TCLP/SPLP Extraction Date: 04/08/22 21:53

Extraction Method: EPA 3510C
Extraction Date: 04/15/22 07:24

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Pesticides by EPA 1311 - Westborough Lab for sample(s): 02 Batch: WG1627553-1						
Lindane	ND		ug/l	0.100	0.022	A
Heptachlor	ND		ug/l	0.100	0.016	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	A
Endrin	ND		ug/l	0.200	0.021	A
Methoxychlor	ND		ug/l	1.00	0.034	A
Toxaphene	ND		ug/l	1.00	0.314	A
Chlordane	ND		ug/l	1.00	0.232	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	94		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1623401-2 WG1623401-3									
Delta-BHC	50		50		30-150	0		30	A
Lindane	80		80		30-150	0		30	A
Alpha-BHC	79		80		30-150	1		30	A
Beta-BHC	74		73		30-150	1		30	A
Heptachlor	86		90		30-150	5		30	A
Aldrin	82		83		30-150	1		30	A
Heptachlor epoxide	79		69		30-150	14		30	A
Endrin	85		84		30-150	1		30	A
Endrin aldehyde	50		46		30-150	8		30	A
Endrin ketone	78		75		30-150	4		30	A
Dieldrin	88		88		30-150	0		30	A
4,4'-DDE	83		84		30-150	1		30	A
4,4'-DDD	89		88		30-150	1		30	A
4,4'-DDT	94		92		30-150	2		30	A
Endosulfan I	80		80		30-150	0		30	A
Endosulfan II	82		79		30-150	4		30	A
Endosulfan sulfate	53		49		30-150	8		30	A
Methoxychlor	88		85		30-150	3		30	A
cis-Chlordane	73		75		30-150	3		30	A
trans-Chlordane	84		85		30-150	1		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: BPCA

Project Number: 20-1152

Lab Number: L2216294

Report Date: 04/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1623401-2 WG1623401-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		69		30-150	A
Decachlorobiphenyl	104		106		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		71		30-150	B
Decachlorobiphenyl	104		100		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BPCA

Project Number: 20-1152

Lab Number: L2216294

Report Date: 04/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Herbicides by EPA 1311 - Westborough Lab Associated sample(s): 02 Batch: WG1626883-2 WG1626883-3									
2,4-D	111		125		30-150	12		25	A
2,4,5-TP (Silvex)	45		52		30-150	14		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	65		59		30-150	A
DCAA	55		53		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Pesticides by EPA 1311 - Westborough Lab Associated sample(s): 02 Batch: WG1627553-2 WG1627553-3									
Lindane	79		74		30-150	7		20	A
Heptachlor	76		67		30-150	13		20	A
Heptachlor epoxide	75		71		30-150	5		20	A
Endrin	92		89		30-150	4		20	A
Methoxychlor	109		107		30-150	2		20	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		78		30-150	A
Decachlorobiphenyl	108		98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		67		30-150	B
Decachlorobiphenyl	111		101		30-150	B

METALS

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2216294
Report Date: 04/20/22

SAMPLE RESULTS

Lab ID: L2216294-01
Client ID: SB-05A(8-10)
Sample Location: BATTERY PARK
Date Collected: 03/30/22 10:00
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10100		mg/kg	10.0	2.70	2	04/18/22 20:20	04/19/22 19:56	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	5.00	0.380	2	04/18/22 20:20	04/19/22 19:56	EPA 3050B	1,6010D	BV
Arsenic, Total	5.16		mg/kg	1.00	0.208	2	04/18/22 20:20	04/19/22 19:56	EPA 3050B	1,6010D	BV
Barium, Total	52.9		mg/kg	1.00	0.174	2	04/18/22 20:20	04/19/22 19:56	EPA 3050B	1,6010D	BV
Beryllium, Total	0.300	J	mg/kg	0.500	0.033	2	04/18/22 20:20	04/19/22 19:56	EPA 3050B	1,6010D	BV
Cadmium, Total	ND		mg/kg	1.00	0.098	2	04/18/22 20:20	04/19/22 19:56	EPA 3050B	1,6010D	BV
Calcium, Total	213000		mg/kg	100	35.0	20	04/18/22 20:20	04/19/22 22:43	EPA 3050B	1,6010D	BV
Chromium, Total	13.9		mg/kg	1.00	0.096	2	04/18/22 20:20	04/19/22 19:56	EPA 3050B	1,6010D	BV
Cobalt, Total	4.73		mg/kg	2.00	0.166	2	04/18/22 20:20	04/19/22 19:56	EPA 3050B	1,6010D	BV
Copper, Total	18.2		mg/kg	1.00	0.258	2	04/18/22 20:20	04/19/22 19:56	EPA 3050B	1,6010D	BV
Iron, Total	9060		mg/kg	5.00	0.903	2	04/18/22 20:20	04/19/22 19:56	EPA 3050B	1,6010D	BV
Lead, Total	11.5		mg/kg	5.00	0.268	2	04/18/22 20:20	04/19/22 19:56	EPA 3050B	1,6010D	BV
Magnesium, Total	6060		mg/kg	10.0	1.54	2	04/18/22 20:20	04/19/22 19:56	EPA 3050B	1,6010D	BV
Manganese, Total	304		mg/kg	1.00	0.159	2	04/18/22 20:20	04/19/22 19:56	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.094	0.061	1	04/18/22 21:10	04/19/22 09:17	EPA 7471B	1,7471B	DMB
Nickel, Total	10.1		mg/kg	2.50	0.242	2	04/18/22 20:20	04/19/22 19:56	EPA 3050B	1,6010D	BV
Potassium, Total	810		mg/kg	250	14.4	2	04/18/22 20:20	04/19/22 19:56	EPA 3050B	1,6010D	BV
Selenium, Total	ND		mg/kg	2.00	0.258	2	04/18/22 20:20	04/19/22 19:56	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	1.00	0.283	2	04/18/22 20:20	04/19/22 19:56	EPA 3050B	1,6010D	BV
Sodium, Total	433		mg/kg	200	3.15	2	04/18/22 20:20	04/19/22 19:56	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	2.00	0.315	2	04/18/22 20:20	04/19/22 19:56	EPA 3050B	1,6010D	BV
Vanadium, Total	14.8		mg/kg	1.00	0.203	2	04/18/22 20:20	04/19/22 19:56	EPA 3050B	1,6010D	BV
Zinc, Total	146		mg/kg	5.00	0.293	2	04/18/22 20:20	04/19/22 19:56	EPA 3050B	1,6010D	BV

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2216294
Report Date: 04/20/22

SAMPLE RESULTS

Lab ID: L2216294-02
Client ID: COMP SB-05A
Sample Location: BATTERY PARK
Sample Depth:
Matrix: Soil

Date Collected: 03/30/22 10:30
Date Received: 03/30/22
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 04/08/22 21:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	0.020	J	mg/l	1.00	0.019	1	04/19/22 16:05	04/19/22 23:25	EPA 3015	1,6010D	DL
Barium, TCLP	0.213	J	mg/l	0.500	0.021	1	04/19/22 16:05	04/19/22 23:25	EPA 3015	1,6010D	DL
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	04/19/22 16:05	04/19/22 23:25	EPA 3015	1,6010D	DL
Chromium, TCLP	ND		mg/l	0.200	0.021	1	04/19/22 16:05	04/19/22 23:25	EPA 3015	1,6010D	DL
Lead, TCLP	ND		mg/l	0.500	0.027	1	04/19/22 16:05	04/19/22 23:25	EPA 3015	1,6010D	DL
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	04/19/22 17:10	04/20/22 10:35	EPA 7470A	1,7470A	ZK
Selenium, TCLP	ND		mg/l	0.500	0.035	1	04/19/22 16:05	04/19/22 23:25	EPA 3015	1,6010D	DL
Silver, TCLP	ND		mg/l	0.100	0.028	1	04/19/22 16:05	04/19/22 23:25	EPA 3015	1,6010D	DL

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2216294
Report Date: 04/20/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1627374-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	04/18/22 20:20	04/19/22 16:39	1,6010D	BV
Antimony, Total	ND		mg/kg	2.00	0.152	1	04/18/22 20:20	04/19/22 16:39	1,6010D	BV
Arsenic, Total	ND		mg/kg	0.400	0.083	1	04/18/22 20:20	04/19/22 16:39	1,6010D	BV
Barium, Total	ND		mg/kg	0.400	0.070	1	04/18/22 20:20	04/19/22 16:39	1,6010D	BV
Beryllium, Total	ND		mg/kg	0.200	0.013	1	04/18/22 20:20	04/19/22 16:39	1,6010D	BV
Cadmium, Total	ND		mg/kg	0.400	0.039	1	04/18/22 20:20	04/19/22 16:39	1,6010D	BV
Calcium, Total	ND		mg/kg	4.00	1.40	1	04/18/22 20:20	04/19/22 16:39	1,6010D	BV
Chromium, Total	ND		mg/kg	0.400	0.038	1	04/18/22 20:20	04/19/22 16:39	1,6010D	BV
Cobalt, Total	ND		mg/kg	0.800	0.066	1	04/18/22 20:20	04/19/22 16:39	1,6010D	BV
Copper, Total	ND		mg/kg	0.400	0.103	1	04/18/22 20:20	04/19/22 16:39	1,6010D	BV
Iron, Total	ND		mg/kg	2.00	0.361	1	04/18/22 20:20	04/19/22 16:39	1,6010D	BV
Lead, Total	ND		mg/kg	2.00	0.107	1	04/18/22 20:20	04/19/22 16:39	1,6010D	BV
Magnesium, Total	ND		mg/kg	4.00	0.616	1	04/18/22 20:20	04/19/22 16:39	1,6010D	BV
Manganese, Total	ND		mg/kg	0.400	0.064	1	04/18/22 20:20	04/19/22 16:39	1,6010D	BV
Nickel, Total	ND		mg/kg	1.00	0.097	1	04/18/22 20:20	04/19/22 16:39	1,6010D	BV
Potassium, Total	ND		mg/kg	100	5.76	1	04/18/22 20:20	04/19/22 16:39	1,6010D	BV
Selenium, Total	ND		mg/kg	0.800	0.103	1	04/18/22 20:20	04/19/22 16:39	1,6010D	BV
Silver, Total	ND		mg/kg	0.400	0.113	1	04/18/22 20:20	04/19/22 16:39	1,6010D	BV
Sodium, Total	ND		mg/kg	80.0	1.26	1	04/18/22 20:20	04/19/22 16:39	1,6010D	BV
Thallium, Total	ND		mg/kg	0.800	0.126	1	04/18/22 20:20	04/19/22 16:39	1,6010D	BV
Vanadium, Total	ND		mg/kg	0.400	0.081	1	04/18/22 20:20	04/19/22 16:39	1,6010D	BV
Zinc, Total	ND		mg/kg	2.00	0.117	1	04/18/22 20:20	04/19/22 16:39	1,6010D	BV

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1627376-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	04/18/22 21:10	04/19/22 08:27	1,7471B	DMB

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2216294
Report Date: 04/20/22

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 02 Batch: WG1628419-1										
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	04/19/22 16:05	04/19/22 22:25	1,6010D	DL
Barium, TCLP	ND		mg/l	0.500	0.021	1	04/19/22 16:05	04/19/22 22:25	1,6010D	DL
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	04/19/22 16:05	04/19/22 22:25	1,6010D	DL
Chromium, TCLP	ND		mg/l	0.200	0.021	1	04/19/22 16:05	04/19/22 22:25	1,6010D	DL
Lead, TCLP	ND		mg/l	0.500	0.027	1	04/19/22 16:05	04/19/22 22:25	1,6010D	DL
Selenium, TCLP	ND		mg/l	0.500	0.035	1	04/19/22 16:05	04/19/22 22:25	1,6010D	DL
Silver, TCLP	ND		mg/l	0.100	0.028	1	04/19/22 16:05	04/19/22 22:25	1,6010D	DL

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 04/08/22 21:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 02 Batch: WG1628420-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	04/19/22 17:10	04/20/22 10:28	1,7470A	ZK

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 04/08/22 21:53

Lab Control Sample Analysis

Batch Quality Control

Project Name: BPCA

Project Number: 20-1152

Lab Number: L2216294

Report Date: 04/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1627374-2 SRM Lot Number: D113-540								
Aluminum, Total	70		-		51-149	-		
Antimony, Total	148		-		20-250	-		
Arsenic, Total	100		-		70-130	-		
Barium, Total	85		-		75-125	-		
Beryllium, Total	91		-		75-125	-		
Cadmium, Total	95		-		75-125	-		
Calcium, Total	88		-		73-128	-		
Chromium, Total	91		-		70-130	-		
Cobalt, Total	98		-		75-125	-		
Copper, Total	95		-		75-125	-		
Iron, Total	87		-		36-164	-		
Lead, Total	98		-		72-128	-		
Magnesium, Total	86		-		63-138	-		
Manganese, Total	88		-		77-123	-		
Nickel, Total	97		-		70-130	-		
Potassium, Total	79		-		59-141	-		
Selenium, Total	102		-		66-134	-		
Silver, Total	93		-		70-131	-		
Sodium, Total	81		-		35-164	-		
Thallium, Total	95		-		70-130	-		
Vanadium, Total	92		-		74-126	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1627374-2 SRM Lot Number: D113-540					
Zinc, Total	98	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1627376-2 SRM Lot Number: D113-540					
Mercury, Total	81	-	60-140	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 Batch: WG1628419-2					
Arsenic, TCLP	100	-	75-125	-	20
Barium, TCLP	103	-	75-125	-	20
Cadmium, TCLP	99	-	75-125	-	20
Chromium, TCLP	100	-	75-125	-	20
Lead, TCLP	99	-	75-125	-	20
Selenium, TCLP	98	-	75-125	-	20
Silver, TCLP	100	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 Batch: WG1628420-2					
Mercury, TCLP	95	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1627374-3 WG1627374-4 QC Sample: L2215934-14 Client ID: MS Sample												
Aluminum, Total	15900	203	18200	**1130**	Q	16100	101		75-125	12		20
Antimony, Total	ND	50.8	38.4	76		32.4	**66**	Q	75-125	17		20
Arsenic, Total	3.60	12.2	15.2	95		15.9	104		75-125	5		20
Barium, Total	39.1	203	229	93		220	92		75-125	4		20
Beryllium, Total	0.665	5.08	5.38	93		5.26	93		75-125	2		20
Cadmium, Total	ND	5.39	4.46	83		4.49	86		75-125	1		20
Calcium, Total	174	1020	1150	96		1100	94		75-125	4		20
Chromium, Total	18.0	20.3	38.4	100		37.3	98		75-125	3		20
Cobalt, Total	9.90	50.8	53.5	86		52.2	86		75-125	2		20
Copper, Total	10.7	25.4	36.0	100		36.4	104		75-125	1		20
Iron, Total	18700	102	21300	**2560**	Q	20000	**1320**	Q	75-125	6		20
Lead, Total	9.91	53.9	57.1	88		57.5	91		75-125	1		20
Magnesium, Total	2460	1020	3740	**126**	Q	3470	102		75-125	7		20
Manganese, Total	269	50.8	414	**285**	Q	358	**180**	Q	75-125	15		20
Nickel, Total	11.4	50.8	55.6	87		54.1	87		75-125	3		20
Potassium, Total	406	1020	1430	101		1350	96		75-125	6		20
Selenium, Total	0.323J	12.2	10.8	88		10.8	91		75-125	0		20
Silver, Total	ND	30.5	27.3	90		27.4	93		75-125	0		20
Sodium, Total	64.2J	1020	979	96		922	94		75-125	6		20
Thallium, Total	ND	12.2	9.86	81		9.63	81		75-125	2		20
Vanadium, Total	27.1	50.8	76.2	96		74.9	97		75-125	2		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1627374-3 WG1627374-4 QC Sample: L2215934-14 Client ID: MS Sample									
Zinc, Total	26.9	50.8	73.7	92	71.6	91	75-125	3	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1627376-3 WG1627376-4 QC Sample: L2215934-14 Client ID: MS Sample									
Mercury, Total	ND	0.164	0.192	117	0.201	118	80-120	5	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1628419-3 QC Sample: L2216294-02 Client ID: COMP SB-05A									
Arsenic, TCLP	0.020J	1.2	1.20	100	-	-	75-125	-	20
Barium, TCLP	0.213J	20	20.4	102	-	-	75-125	-	20
Cadmium, TCLP	ND	0.53	0.510	96	-	-	75-125	-	20
Chromium, TCLP	ND	2	1.95	98	-	-	75-125	-	20
Lead, TCLP	ND	5.3	5.10	96	-	-	75-125	-	20
Selenium, TCLP	ND	1.2	1.14	95	-	-	75-125	-	20
Silver, TCLP	ND	0.5	0.504	101	-	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1628420-3 QC Sample: L2216294-02 Client ID: COMP SB-05A									
Mercury, TCLP	ND	0.025	0.0226	90	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1628419-4 QC Sample: L2216294-02 Client ID: COMP SB-05A						
Arsenic, TCLP	0.020J	ND	mg/l	NC		20
Barium, TCLP	0.213J	0.220J	mg/l	NC		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	ND	ND	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1628420-4 QC Sample: L2216294-02 Client ID: COMP SB-05A						
Mercury, TCLP	ND	ND	mg/l	NC		20

Project Name: BPCA
Project Number: 20-1152

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2216294
Report Date: 04/20/22

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1627374-6 QC Sample: L2215934-14 Client ID: DUP Sample						
Aluminum, Total	15900	17800	mg/kg	12		20
Barium, Total	39.1	45.2	mg/kg	16		20
Iron, Total	18700	21900	mg/kg	17		20
Magnesium, Total	2460	2780	mg/kg	13		20
Manganese, Total	269	311	mg/kg	16		20
Vanadium, Total	27.1	30.5	mg/kg	13		20

INORGANICS
&
MISCELLANEOUS

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2216294
Report Date: 04/20/22

SAMPLE RESULTS

Lab ID: L2216294-02
Client ID: COMP SB-05A
Sample Location: BATTERY PARK

Date Collected: 03/30/22 10:30
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Clay
Particle Size:	Gravel
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	04/01/22 08:50	1,1030	ML

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

SAMPLE RESULTS

Lab ID: L2216294-01
Client ID: SB-05A(8-10)
Sample Location: BATTERY PARK

Date Collected: 03/30/22 10:00
Date Received: 03/30/22
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	78.3		%	0.100	NA	1	-	03/31/22 09:14	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	04/13/22 09:40	04/13/22 12:46	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	1.02	0.204	1	04/16/22 16:48	04/17/22 14:43	1,7196A	NL

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

SAMPLE RESULTS

Lab ID: L2216294-02
Client ID: COMP SB-05A
Sample Location: BATTERY PARK

Date Collected: 03/30/22 10:30
Date Received: 03/30/22
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										
pH (H)	10.9		SU	-	NA	1	-	04/13/22 19:20	1,9045D	RM
Cyanide, Reactive	ND		mg/kg	10	10.	1	04/07/22 13:20	04/07/22 15:44	125,7.3	MJ
Sulfide, Reactive	ND		mg/kg	10	10.	1	04/07/22 13:20	04/07/22 15:19	125,7.3	MJ

Project Name: BPCA
Project Number: 20-1152
Lab Number: L2216294
Report Date: 04/20/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1624684-4										
Sulfide, Reactive	ND		mg/kg	10	10.	1	04/07/22 13:20	04/07/22 15:18	125,7.3	MJ
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1624698-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	04/07/22 13:20	04/07/22 15:50	125,7.3	MJ
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1626613-1										
Cyanide, Total	ND		mg/kg	0.97	0.20	1	04/13/22 09:40	04/13/22 12:41	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1627872-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	04/16/22 16:48	04/17/22 14:43	1,7196A	NL

Lab Control Sample Analysis

Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1624684-5								
Sulfide, Reactive	68		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1624698-2								
Cyanide, Reactive	80		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1626613-2 WG1626613-3								
Cyanide, Total	**71**	Q	94		80-120	**43**	Q	35
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1626940-1								
pH	99		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1627872-2								
Chromium, Hexavalent	92		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1626613-4 WG1626613-5 QC Sample: L2217379-01 Client ID: MS Sample												
Cyanide, Total	ND	11	11	100		12	110		75-125	9		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1627872-4 QC Sample: L2216294-01 Client ID: SB-05A(8-10)												
Chromium, Hexavalent	ND	1120	957	86		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1621850-1 QC Sample: L2216358-01 Client ID: DUP Sample						
Solids, Total	91.4	91.8	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1624684-6 QC Sample: L2216294-02 Client ID: COMP SB-05A						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1624698-3 QC Sample: L2216294-02 Client ID: COMP SB-05A						
Cyanide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1624698-3 QC Sample: L2216294-02 Client ID: COMP SB-05A						
Cyanide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1626940-2 QC Sample: L2218771-01 Client ID: DUP Sample						
pH	7.9	7.8	SU	1		5
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1627872-6 QC Sample: L2216294-01 Client ID: SB-05A(8-10)						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: BPCA
Project Number: 20-1152

Lab Number: L2216294
Report Date: 04/20/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2216294-01A	Vial MeOH preserved	A	NA		4.1	Y	Absent		NYTCL-8260HLW(14)
L2216294-01B	Vial water preserved	A	NA		4.1	Y	Absent	31-MAR-22 01:12	NYTCL-8260HLW(14)
L2216294-01C	Vial water preserved	A	NA		4.1	Y	Absent	31-MAR-22 01:12	NYTCL-8260HLW(14)
L2216294-01D	Plastic 2oz unpreserved for TS	A	NA		4.1	Y	Absent		TS(7)
L2216294-01E	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),A2-PHI(14),CU-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),HG-T(28),MN-TI(180),FE-TI(180),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2216294-01F	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2216294-01G	Glass 250ml/8oz unpreserved	A	NA		4.1	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2216294-02A	Vial Large Septa unpreserved (4oz)	A	NA		4.1	Y	Absent		TCLP-EXT-ZHE(14)
L2216294-02B	Glass 500ml/16oz unpreserved	A	NA		4.1	Y	Absent		IGNIT-1030(14),REACTS(14),PH-9045(1),REACTCN(14)
L2216294-02W	Amber 1000ml unpreserved Extracts	A	NA		4.1	Y	Absent		TCLP-8270(14),HERB-TCLP*(14),PEST-TCLP*(14)
L2216294-02X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.1	Y	Absent		CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2216294-02X9	Tumble Vessel	A	NA		4.1	Y	Absent		-
L2216294-02Y	Vial unpreserved Extracts	A	NA		4.1	Y	Absent		TCLP-VOA(14)
L2216294-02Z	Vial unpreserved Extracts	A	NA		4.1	Y	Absent		TCLP-VOA(14)

*Values in parentheses indicate holding time in days

Project Name:	BPCA	**Lab Number:**	L2216294
Project Number:	20-1152	**Report Date:**	04/20/22

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:	BPCA	**Lab Number:**	L2216294
Project Number:	20-1152	**Report Date:**	04/20/22

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. 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.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	BPCA	**Lab Number:**	L2216294
Project Number:	20-1152	**Report Date:**	04/20/22

Data Qualifiers

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:	BPCA	**Lab Number:**	L2216294
Project Number:	20-1152	**Report Date:**	04/20/22

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.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

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 of

Date Rec'd in Lab: 03/30/22

ALPHA Job #: L2216294

Client Information
Client: Matrix New World
Address: 333 W 39th St Suite 202
New York, NY 10018
Phone: 914-584-6648
Fax:
Email: bcrespi@mnwe.com

Project Information
Project Name: BPCA
Project Location: Battery Park
Project # 20-1152
(Use Project name as Project #) ☐
Project Manager:
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

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	Full TCL/TAL+30	HEXCR	Full TCLP	RCRA Characteristics	Sample Specific Comments	Total Bottle
16294-01	SB-05A(8-10)	3/30/22	10:00		JT	✓	✓				
-02	COMP SB-05A(8-10)	3/30/22	10:30		JT			✓	✓		

Container Type: 6V 6V 6 6
Preservative:

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

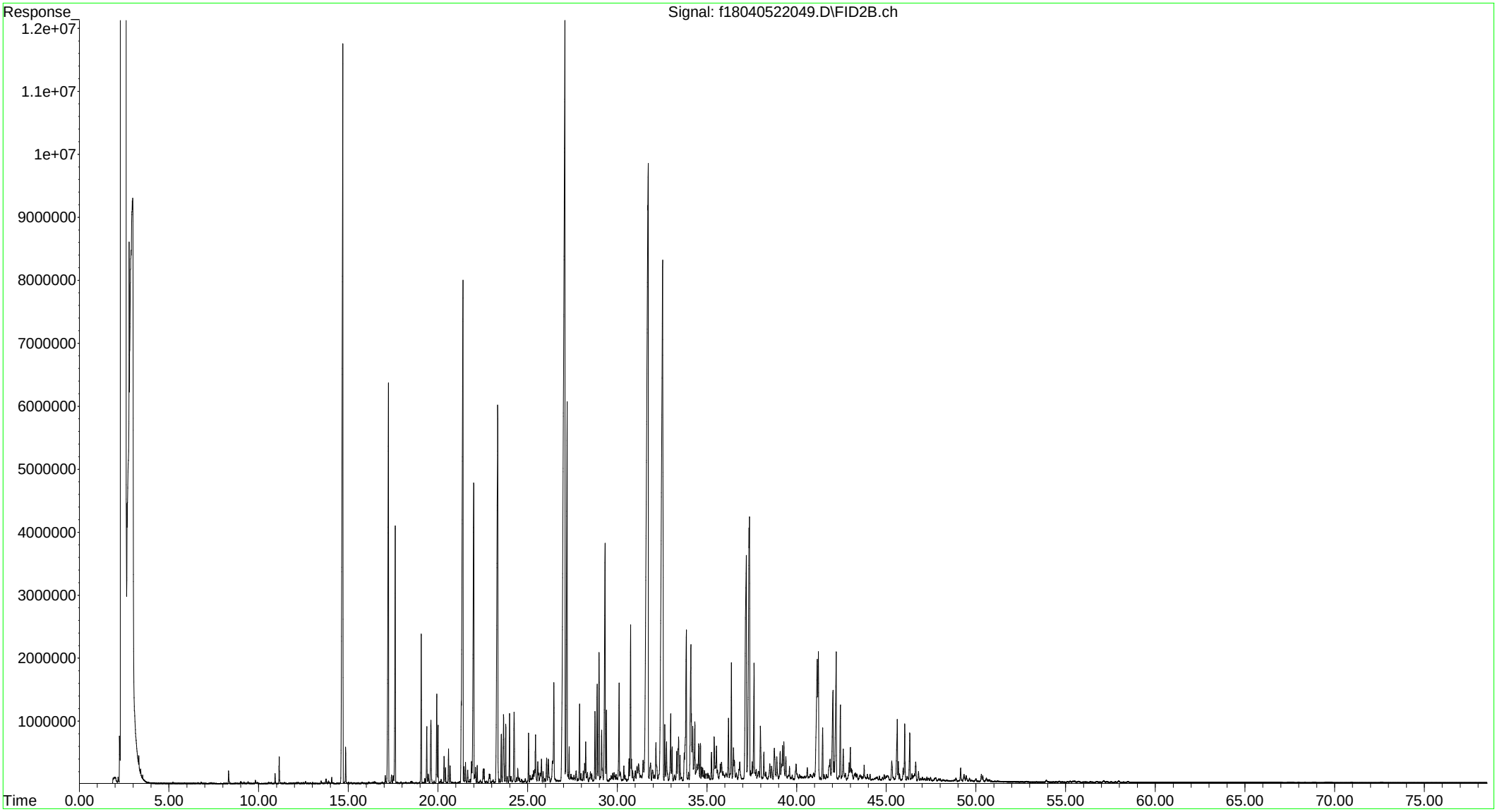
Relinquished By:	Date/Time	Received By:	Date/Time
Jason Toth	3/30/22 1140	[signature]	3-30-22 1140
[signature]	3-30-22 1550	Paul Mazzella	3/30/22 1645
Paul Mazzella	3/30/22	[signature]	3/30/22 2230

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.)

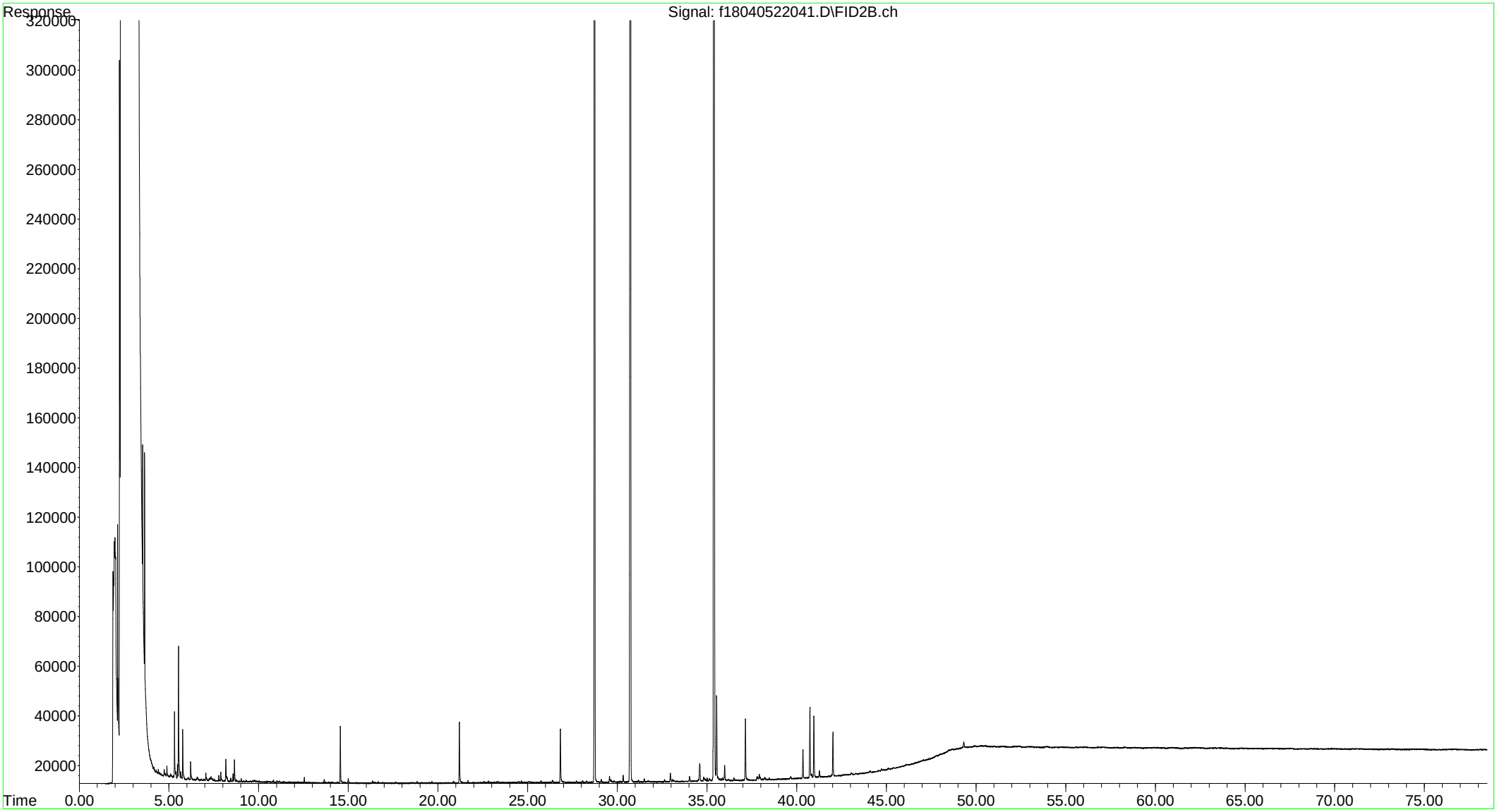
Form No: 01-25 HC (rev. 30-Sept-2013)

GC-FID Chromatogram

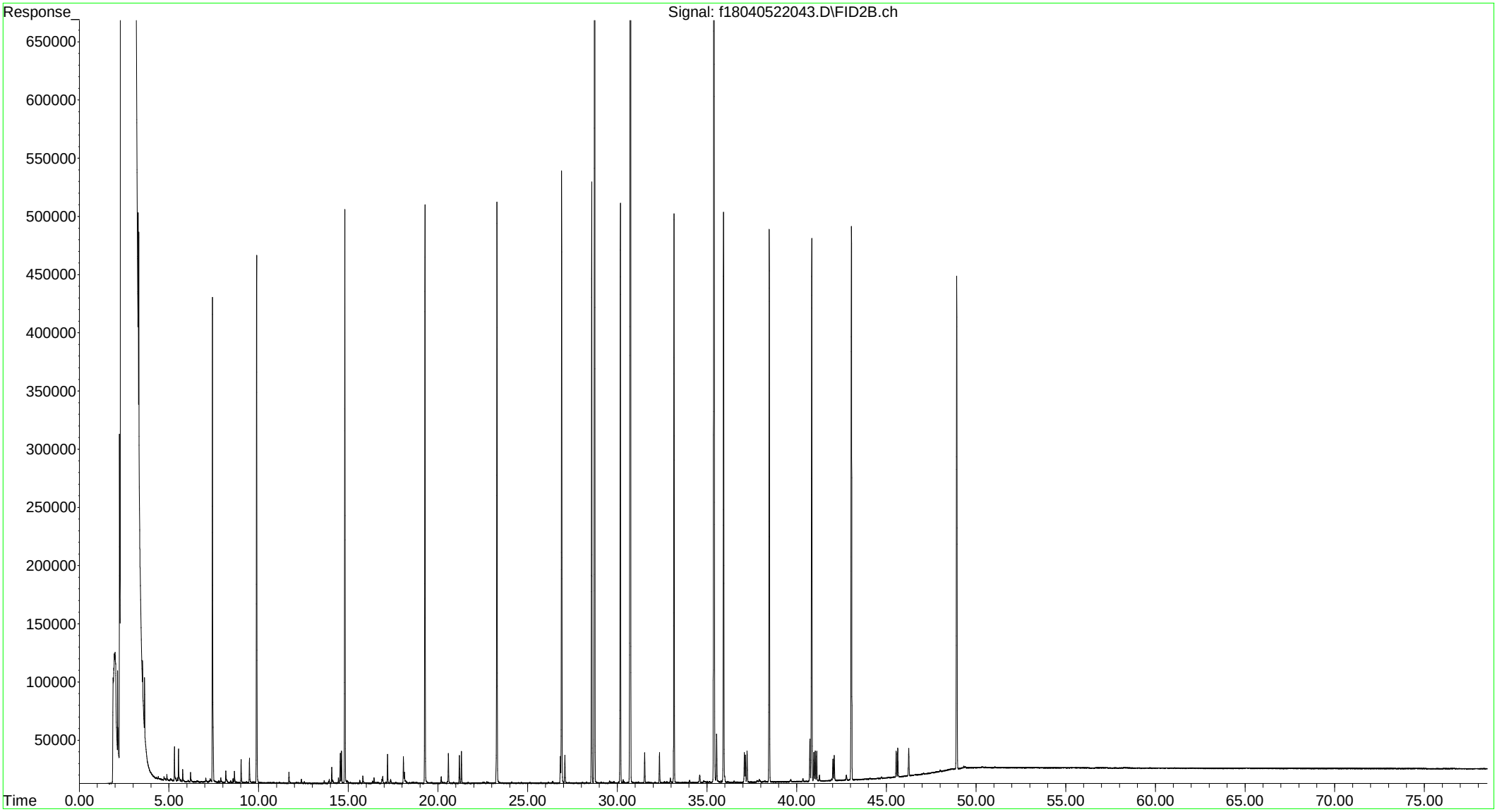
File :O:\Forensics\Data\FID18\2022\APR\APR05.SEC\f18040522049.D
Operator : FID18:DP
Acquired : 06 Apr 2022 11:28 pm using AcqMethod FID18.M
Instrument : FID 18
Sample Name: l2216294-01,42,,,pri
Misc Info : WG1623737,WG1623665,ICAL18676
Vial Number: 75



File :O:\Forensics\Data\FID18\2022\APR\APR05.SEC\f18040522041.D
Operator : FID18:DP
Acquired : 06 Apr 2022 05:43 pm using AcqMethod FID18.M
Instrument : FID 18
Sample Name: wg1623668-1,42,,
Misc Info : WG1623737,WG1623668,ICAL18676
Vial Number: 71

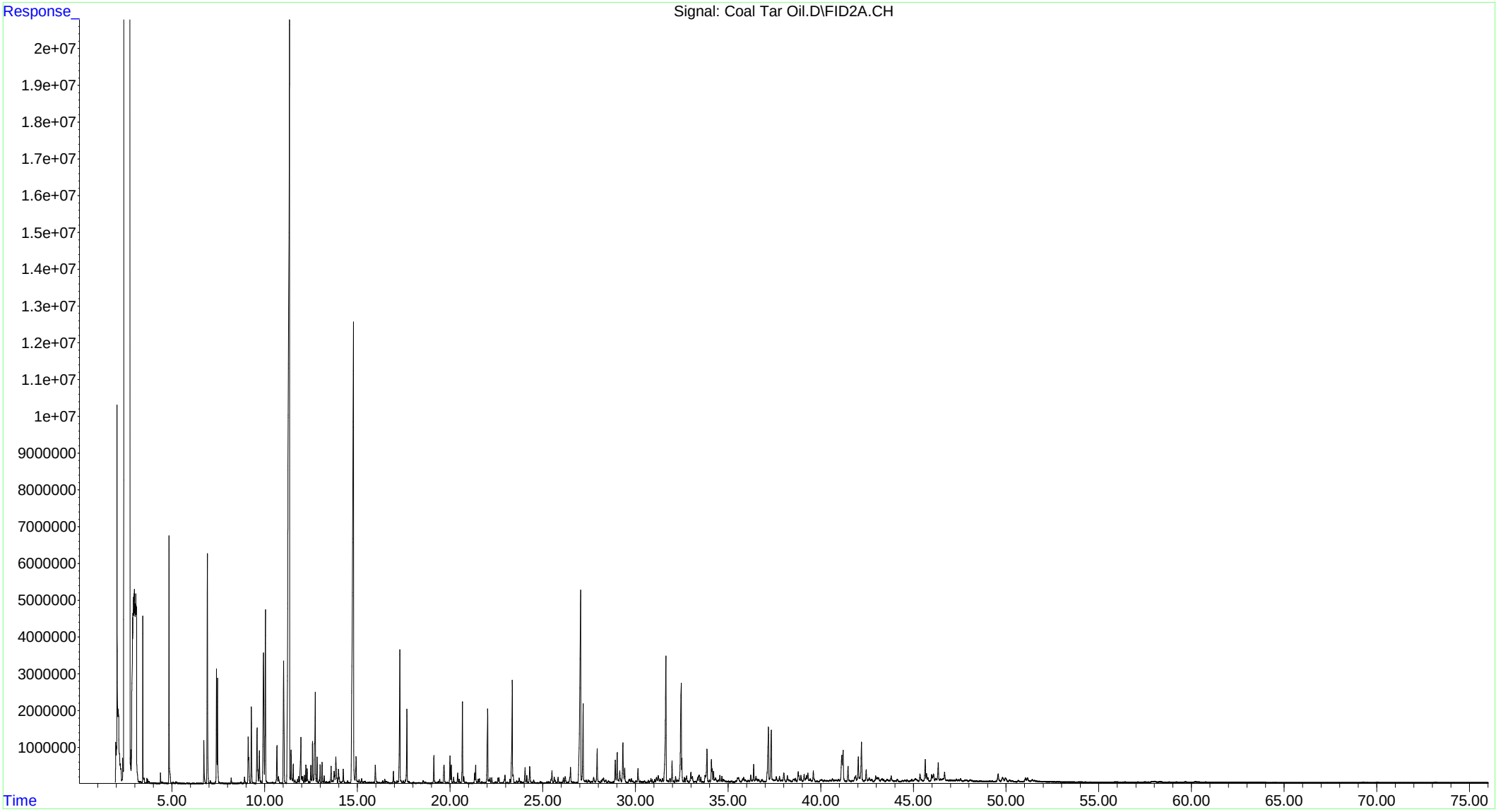


File :O:\Forensics\Data\FID18\2022\APR\APR05.SEC\f18040522043.D
Operator : FID18:DP
Acquired : 06 Apr 2022 07:10 pm using AcqMethod FID18.M
Instrument : FID 18
Sample Name: wg1623668-2,42,,
Misc Info : WG1623737,WG1623668,ICAL18676
Vial Number: 72

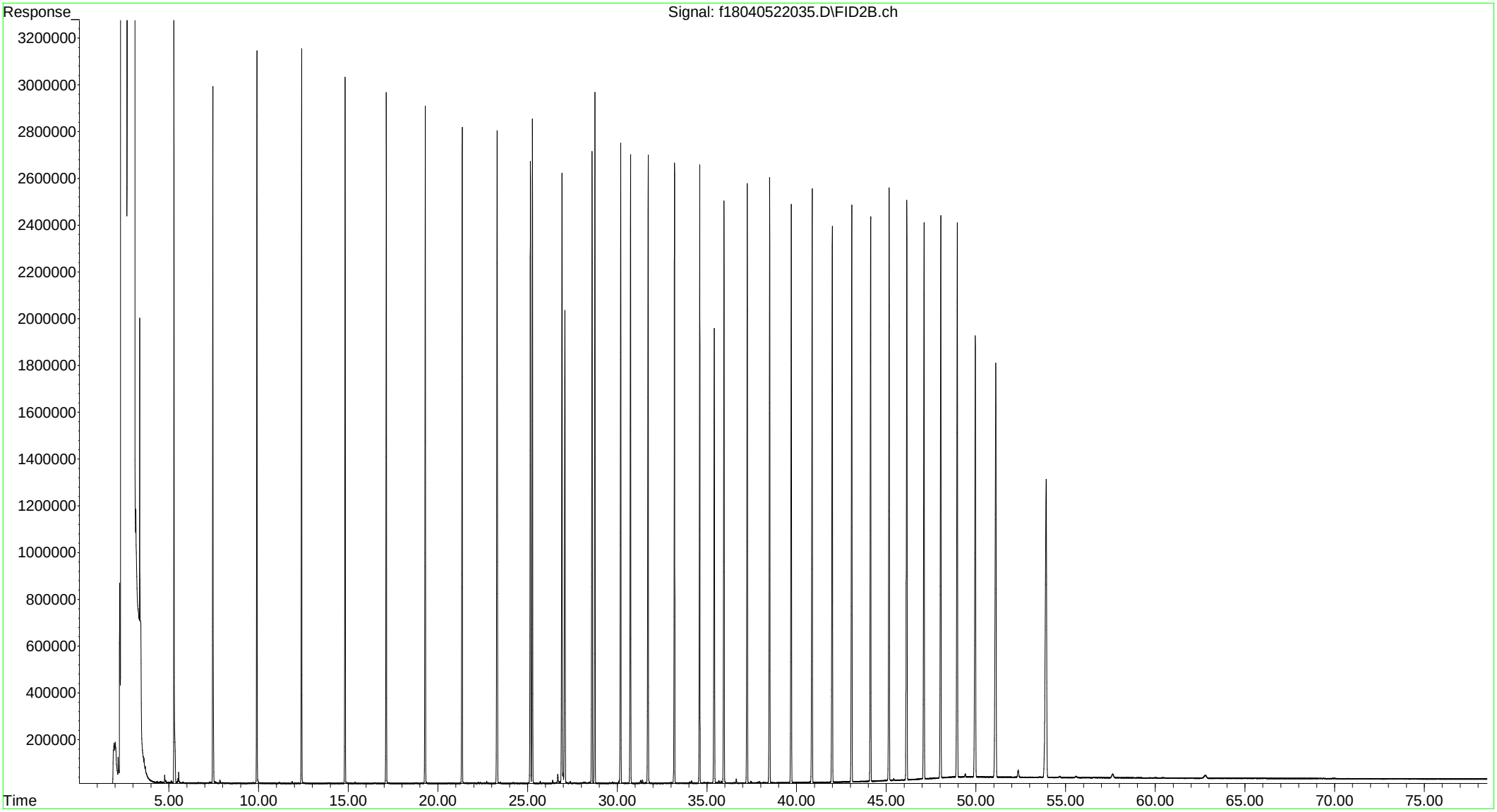


Petroleum Reference Standards

```
File       :O:\Forensics\Data\LIBRARY\Hydrocarbon Reference Standards\Co
...         al Tar Oil.D
Operator  : DMP
Instrument :   PAH2
Acquired  : 08 Aug 2013   6:49 pm using AcqMethod FRNC2A.M
Sample    : Coal Tar Oil
Misc Info : Chem Service Pz-123 (F031908K)
```



File :O:\Forensics\Data\FID18\2022\APR\APR05.SEC\f18040522035.D
Operator : FID18:WR
Acquired : 06 Apr 2022 01:25 pm using AcqMethod FID18.M
Instrument : FID 18
Sample Name: WG1623737-2
Misc Info : WG1623737,FRBE45,ICAL18676
Vial Number: 68



ANALYTICAL REPORT

Lab Number:	L2223664
Client:	Matrix New World Engineering, Inc. 333 West 39th Street, Second Floor New York City, NY 10018
ATTN:	Brian Crespi
Phone:	(212) 324-4251
Project Name:	BATTERY PARK
Project Number:	20-1152
Report Date:	06/06/22

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

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

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2223664-01	SB-02(0-2)	SOIL	MANHATTAN, NY	05/05/22 10:50	05/05/22
L2223664-02	COMP SB-02(0-4.5)	SOIL	MANHATTAN, NY	05/05/22 10:55	05/05/22
L2223664-03	SB-03(0-2)	SOIL	MANHATTAN, NY	05/05/22 12:40	05/05/22
L2223664-04	COMP SB-03(0-5)	SOIL	MANHATTAN, NY	05/05/22 12:50	05/05/22
L2223664-05	COMP(SB-02,SB-03)	SOIL	MANHATTAN, NY	05/05/22 13:00	05/05/22
L2223664-06	FIELD BLANK-SOIL	WATER	MANHATTAN, NY	05/05/22 13:45	05/05/22

Project Name:	BATTERY PARK	**Lab Number:**	L2223664
Project Number:	20-1152	**Report Date:**	06/06/22

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: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Case Narrative (continued)

Report Submission

June 06, 2022: This final report includes the results of all requested analyses.

May 19, 2022: This is a preliminary report.

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

Total Metals

L2223664-02 and -04: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

L2223664-06: The sample has an elevated detection limit for mercury due to the prep dilution required by the limited sample volume available for analysis.

Cyanide, Total

The WG1639572-2/-3 LCS/LCSD recoveries for cyanide, total (65%/70%), associated with L2223664-02 and -04, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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: Caitlin Walukevich

Title: Technical Director/Representative Date: 06/06/22

ORGANICS

VOLATILES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-01
Client ID: SB-02(0-2)
Sample Location: MANHATTAN, NY
Date Collected: 05/05/22 10:50
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/11/22 17:21
Analyst: KJD
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.6	1.6	1
1,1-Dichloroethane	ND		ug/kg	0.72	0.10	1
Chloroform	ND		ug/kg	1.1	0.10	1
Carbon tetrachloride	ND		ug/kg	0.72	0.16	1
1,2-Dichloropropane	ND		ug/kg	0.72	0.09	1
Dibromochloromethane	ND		ug/kg	0.72	0.10	1
1,1,2-Trichloroethane	ND		ug/kg	0.72	0.19	1
Tetrachloroethene	ND		ug/kg	0.36	0.14	1
Chlorobenzene	ND		ug/kg	0.36	0.09	1
Trichlorofluoromethane	ND		ug/kg	2.9	0.50	1
1,2-Dichloroethane	ND		ug/kg	0.72	0.18	1
1,1,1-Trichloroethane	ND		ug/kg	0.36	0.12	1
Bromodichloromethane	ND		ug/kg	0.36	0.08	1
trans-1,3-Dichloropropene	ND		ug/kg	0.72	0.20	1
cis-1,3-Dichloropropene	ND		ug/kg	0.36	0.11	1
1,3-Dichloropropene, Total	ND		ug/kg	0.36	0.11	1
1,1-Dichloropropene	ND		ug/kg	0.36	0.11	1
Bromoform	ND		ug/kg	2.9	0.18	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.36	0.12	1
Benzene	ND		ug/kg	0.36	0.12	1
Toluene	ND		ug/kg	0.72	0.39	1
Ethylbenzene	ND		ug/kg	0.72	0.10	1
Chloromethane	ND		ug/kg	2.9	0.67	1
Bromomethane	ND		ug/kg	1.4	0.42	1
Vinyl chloride	ND		ug/kg	0.72	0.24	1
Chloroethane	ND		ug/kg	1.4	0.32	1
1,1-Dichloroethene	ND		ug/kg	0.72	0.17	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	0.10	1

Project Name: BATTERY PARK **Lab Number:** L2223664

Project Number: 20-1152 **Report Date:** 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-01 Date Collected: 05/05/22 10:50

Client ID: SB-02(0-2) Date Received: 05/05/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.36	0.10	1
1,2-Dichlorobenzene	ND		ug/kg	1.4	0.10	1
1,3-Dichlorobenzene	ND		ug/kg	1.4	0.11	1
1,4-Dichlorobenzene	ND		ug/kg	1.4	0.12	1
Methyl tert butyl ether	ND		ug/kg	1.4	0.14	1
p/m-Xylene	ND		ug/kg	1.4	0.40	1
o-Xylene	ND		ug/kg	0.72	0.21	1
Xylenes, Total	ND		ug/kg	0.72	0.21	1
cis-1,2-Dichloroethene	ND		ug/kg	0.72	0.12	1
1,2-Dichloroethene, Total	ND		ug/kg	0.72	0.10	1
Dibromomethane	ND		ug/kg	1.4	0.17	1
Styrene	ND		ug/kg	0.72	0.14	1
Dichlorodifluoromethane	ND		ug/kg	7.2	0.66	1
Acetone	40		ug/kg	7.2	3.4	1
Carbon disulfide	ND		ug/kg	7.2	3.3	1
2-Butanone	ND		ug/kg	7.2	1.6	1
Vinyl acetate	ND		ug/kg	7.2	1.5	1
4-Methyl-2-pentanone	ND		ug/kg	7.2	0.92	1
1,2,3-Trichloropropane	ND		ug/kg	1.4	0.09	1
2-Hexanone	ND		ug/kg	7.2	0.84	1
Bromochloromethane	ND		ug/kg	1.4	0.15	1
2,2-Dichloropropane	ND		ug/kg	1.4	0.14	1
1,2-Dibromoethane	ND		ug/kg	0.72	0.20	1
1,3-Dichloropropane	ND		ug/kg	1.4	0.12	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.36	0.09	1
Bromobenzene	ND		ug/kg	1.4	0.10	1
n-Butylbenzene	ND		ug/kg	0.72	0.12	1
sec-Butylbenzene	ND		ug/kg	0.72	0.10	1
tert-Butylbenzene	ND		ug/kg	1.4	0.08	1
o-Chlorotoluene	ND		ug/kg	1.4	0.14	1
p-Chlorotoluene	ND		ug/kg	1.4	0.08	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.1	0.72	1
Hexachlorobutadiene	ND		ug/kg	2.9	0.12	1
Isopropylbenzene	ND		ug/kg	0.72	0.08	1
p-Isopropyltoluene	ND		ug/kg	0.72	0.08	1
Naphthalene	ND		ug/kg	2.9	0.46	1
Acrylonitrile	ND		ug/kg	2.9	0.82	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-01
Client ID: SB-02(0-2)
Sample Location: MANHATTAN, NY
Date Collected: 05/05/22 10:50
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.72	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.4	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.4	0.19	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.4	0.14	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.4	0.24	1
1,4-Dioxane	ND		ug/kg	57	25.	1
p-Diethylbenzene	ND		ug/kg	1.4	0.13	1
p-Ethyltoluene	ND		ug/kg	1.4	0.28	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.4	0.14	1
Ethyl ether	ND		ug/kg	1.4	0.24	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	3.6	1.0	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	84		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-03
Client ID: SB-03(0-2)
Sample Location: MANHATTAN, NY

Date Collected: 05/05/22 12:40
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/09/22 13:48
Analyst: AJK
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	1.8	0.81	1
1,1-Dichloroethane	ND		ug/kg	0.36	0.05	1
Chloroform	ND		ug/kg	0.53	0.05	1
Carbon tetrachloride	ND		ug/kg	0.36	0.08	1
1,2-Dichloropropane	ND		ug/kg	0.36	0.04	1
Dibromochloromethane	ND		ug/kg	0.36	0.05	1
1,1,2-Trichloroethane	ND		ug/kg	0.36	0.10	1
Tetrachloroethene	ND		ug/kg	0.18	0.07	1
Chlorobenzene	ND		ug/kg	0.18	0.05	1
Trichlorofluoromethane	ND		ug/kg	1.4	0.25	1
1,2-Dichloroethane	ND		ug/kg	0.36	0.09	1
1,1,1-Trichloroethane	ND		ug/kg	0.18	0.06	1
Bromodichloromethane	ND		ug/kg	0.18	0.04	1
trans-1,3-Dichloropropene	ND		ug/kg	0.36	0.10	1
cis-1,3-Dichloropropene	ND		ug/kg	0.18	0.06	1
1,3-Dichloropropene, Total	ND		ug/kg	0.18	0.06	1
1,1-Dichloropropene	ND		ug/kg	0.18	0.06	1
Bromoform	ND		ug/kg	1.4	0.09	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.18	0.06	1
Benzene	ND		ug/kg	0.18	0.06	1
Toluene	ND		ug/kg	0.36	0.19	1
Ethylbenzene	ND		ug/kg	0.36	0.05	1
Chloromethane	ND		ug/kg	1.4	0.33	1
Bromomethane	ND		ug/kg	0.71	0.21	1
Vinyl chloride	ND		ug/kg	0.36	0.12	1
Chloroethane	ND		ug/kg	0.71	0.16	1
1,1-Dichloroethene	ND		ug/kg	0.36	0.09	1
trans-1,2-Dichloroethene	ND		ug/kg	0.53	0.05	1

Project Name: BATTERY PARK **Lab Number:** L2223664

Project Number: 20-1152 **Report Date:** 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-03 Date Collected: 05/05/22 12:40

Client ID: SB-03(0-2) Date Received: 05/05/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.18	0.05	1
1,2-Dichlorobenzene	ND		ug/kg	0.71	0.05	1
1,3-Dichlorobenzene	ND		ug/kg	0.71	0.05	1
1,4-Dichlorobenzene	ND		ug/kg	0.71	0.06	1
Methyl tert butyl ether	ND		ug/kg	0.71	0.07	1
p/m-Xylene	ND		ug/kg	0.71	0.20	1
o-Xylene	ND		ug/kg	0.36	0.10	1
Xylenes, Total	ND		ug/kg	0.36	0.10	1
cis-1,2-Dichloroethene	ND		ug/kg	0.36	0.06	1
1,2-Dichloroethene, Total	ND		ug/kg	0.36	0.05	1
Dibromomethane	ND		ug/kg	0.71	0.09	1
Styrene	ND		ug/kg	0.36	0.07	1
Dichlorodifluoromethane	ND		ug/kg	3.6	0.32	1
Acetone	17		ug/kg	3.6	1.7	1
Carbon disulfide	ND		ug/kg	3.6	1.6	1
2-Butanone	1.2	J	ug/kg	3.6	0.79	1
Vinyl acetate	ND		ug/kg	3.6	0.76	1
4-Methyl-2-pentanone	ND		ug/kg	3.6	0.46	1
1,2,3-Trichloropropane	ND		ug/kg	0.71	0.05	1
2-Hexanone	ND		ug/kg	3.6	0.42	1
Bromochloromethane	ND		ug/kg	0.71	0.07	1
2,2-Dichloropropane	ND		ug/kg	0.71	0.07	1
1,2-Dibromoethane	ND		ug/kg	0.36	0.10	1
1,3-Dichloropropane	ND		ug/kg	0.71	0.06	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.18	0.05	1
Bromobenzene	ND		ug/kg	0.71	0.05	1
n-Butylbenzene	ND		ug/kg	0.36	0.06	1
sec-Butylbenzene	ND		ug/kg	0.36	0.05	1
tert-Butylbenzene	ND		ug/kg	0.71	0.04	1
o-Chlorotoluene	ND		ug/kg	0.71	0.07	1
p-Chlorotoluene	ND		ug/kg	0.71	0.04	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.1	0.36	1
Hexachlorobutadiene	ND		ug/kg	1.4	0.06	1
Isopropylbenzene	ND		ug/kg	0.36	0.04	1
p-Isopropyltoluene	ND		ug/kg	0.36	0.04	1
Naphthalene	ND		ug/kg	1.4	0.23	1
Acrylonitrile	ND		ug/kg	1.4	0.41	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-03
Client ID: SB-03(0-2)
Sample Location: MANHATTAN, NY
Date Collected: 05/05/22 12:40
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.36	0.06	1
1,2,3-Trichlorobenzene	ND		ug/kg	0.71	0.11	1
1,2,4-Trichlorobenzene	ND		ug/kg	0.71	0.10	1
1,3,5-Trimethylbenzene	ND		ug/kg	0.71	0.07	1
1,2,4-Trimethylbenzene	ND		ug/kg	0.71	0.12	1
1,4-Dioxane	ND		ug/kg	28	12.	1
p-Diethylbenzene	ND		ug/kg	0.71	0.06	1
p-Ethyltoluene	ND		ug/kg	0.71	0.14	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	0.71	0.07	1
Ethyl ether	ND		ug/kg	0.71	0.12	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	1.8	0.50	1
Tentatively Identified Compounds						
Total TIC Compounds	2.60	J	ug/kg			1
Unknown	2.60	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	82		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-06
Client ID: FIELD BLANK-SOIL
Sample Location: MANHATTAN, NY
Date Collected: 05/05/22 13:45
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/16/22 13:37
Analyst: MV

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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	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

Project Name: BATTERY PARK **Lab Number:** L2223664

Project Number: 20-1152 **Report Date:** 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-06 Date Collected: 05/05/22 13:45

Client ID: FIELD BLANK-SOIL Date Received: 05/05/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.4	J	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
Vinyl acetate	ND		ug/l	5.0	1.0	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
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-06
Client ID: FIELD BLANK-SOIL
Sample Location: MANHATTAN, NY
Date Collected: 05/05/22 13:45
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	110		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/09/22 08:54
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1636153-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/09/22 08:54
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1636153-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/09/22 08:54
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1636153-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	0.11	J	ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Tentatively Identified Compounds			
Total TIC Compounds	13.9	J	ug/kg
Unknown	6.61	J	ug/kg
Unknown	7.31	J	ug/kg

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/09/22 08:54
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1636153-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	104		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/11/22 15:41
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1639451-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.86	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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/11/22 15:41
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1639451-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/11/22 15:41
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1639451-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	0.44	J	ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	0.34	J	ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	0.24	J	ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Tentatively Identified Compounds			
Total TIC Compounds	3.38	J	ug/kg
Unknown	3.38	J	ug/kg

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/11/22 15:41
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1639451-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	102		70-130

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/16/22 08:47
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1639770-5					
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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/16/22 08:47
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1639770-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
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
Vinyl acetate	ND		ug/l	5.0	1.0
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
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/16/22 08:47
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1639770-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Tentatively Identified Compounds		
No Tentatively Identified Compounds	ND	ug/l

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/16/22 08:47
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1639770-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	110		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1636153-3 WG1636153-4								
Methylene chloride	93		92		70-130	1		30
1,1-Dichloroethane	90		92		70-130	2		30
Chloroform	87		90		70-130	3		30
Carbon tetrachloride	88		91		70-130	3		30
1,2-Dichloropropane	94		96		70-130	2		30
Dibromochloromethane	90		93		70-130	3		30
1,1,2-Trichloroethane	96		99		70-130	3		30
Tetrachloroethene	94		95		70-130	1		30
Chlorobenzene	89		91		70-130	2		30
Trichlorofluoromethane	85		86		70-139	1		30
1,2-Dichloroethane	85		88		70-130	3		30
1,1,1-Trichloroethane	92		93		70-130	1		30
Bromodichloromethane	92		94		70-130	2		30
trans-1,3-Dichloropropene	85		89		70-130	5		30
cis-1,3-Dichloropropene	86		90		70-130	5		30
1,1-Dichloropropene	92		93		70-130	1		30
Bromoform	89		94		70-130	5		30
1,1,2,2-Tetrachloroethane	88		93		70-130	6		30
Benzene	90		92		70-130	2		30
Toluene	88		88		70-130	0		30
Ethylbenzene	89		90		70-130	1		30
Chloromethane	81		82		52-130	1		30
Bromomethane	103		99		57-147	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2223664

Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1636153-3 WG1636153-4								
Vinyl chloride	84		85		67-130	1		30
Chloroethane	90		90		50-151	0		30
1,1-Dichloroethene	91		92		65-135	1		30
trans-1,2-Dichloroethene	90		92		70-130	2		30
Trichloroethene	92		93		70-130	1		30
1,2-Dichlorobenzene	92		95		70-130	3		30
1,3-Dichlorobenzene	92		93		70-130	1		30
1,4-Dichlorobenzene	91		93		70-130	2		30
Methyl tert butyl ether	93		97		66-130	4		30
p/m-Xylene	93		95		70-130	2		30
o-Xylene	92		95		70-130	3		30
cis-1,2-Dichloroethene	90		91		70-130	1		30
Dibromomethane	87		92		70-130	6		30
Styrene	95		98		70-130	3		30
Dichlorodifluoromethane	69		68		30-146	1		30
Acetone	76		85		54-140	11		30
Carbon disulfide	89		91		59-130	2		30
2-Butanone	79		84		70-130	6		30
Vinyl acetate	93		98		70-130	5		30
4-Methyl-2-pentanone	95		100		70-130	5		30
1,2,3-Trichloropropane	84		91		68-130	8		30
2-Hexanone	82		90		70-130	9		30
Bromochloromethane	93		95		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2223664

Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1636153-3 WG1636153-4								
2,2-Dichloropropane	93		93		70-130	0		30
1,2-Dibromoethane	95		101		70-130	6		30
1,3-Dichloropropane	91		96		69-130	5		30
1,1,1,2-Tetrachloroethane	85		88		70-130	3		30
Bromobenzene	92		94		70-130	2		30
n-Butylbenzene	90		92		70-130	2		30
sec-Butylbenzene	93		93		70-130	0		30
tert-Butylbenzene	92		92		70-130	0		30
o-Chlorotoluene	90		105		70-130	15		30
p-Chlorotoluene	91		92		70-130	1		30
1,2-Dibromo-3-chloropropane	80		84		68-130	5		30
Hexachlorobutadiene	94		94		67-130	0		30
Isopropylbenzene	92		92		70-130	0		30
p-Isopropyltoluene	94		94		70-130	0		30
Naphthalene	89		94		70-130	5		30
Acrylonitrile	84		91		70-130	8		30
n-Propylbenzene	93		93		70-130	0		30
1,2,3-Trichlorobenzene	86		90		70-130	5		30
1,2,4-Trichlorobenzene	87		88		70-130	1		30
1,3,5-Trimethylbenzene	90		92		70-130	2		30
1,2,4-Trimethylbenzene	89		91		70-130	2		30
1,4-Dioxane	84		91		65-136	8		30
p-Diethylbenzene	91		93		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2223664

Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1636153-3 WG1636153-4								
p-Ethyltoluene	92		92		70-130	0		30
1,2,4,5-Tetramethylbenzene	73		74		70-130	1		30
Ethyl ether	93		96		67-130	3		30
trans-1,4-Dichloro-2-butene	85		89		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		96		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	99		100		70-130
Dibromofluoromethane	101		102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2223664

Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1639451-3 WG1639451-4								
Methylene chloride	90		90		70-130	0		30
1,1-Dichloroethane	110		109		70-130	1		30
Chloroform	91		91		70-130	0		30
Carbon tetrachloride	101		102		70-130	1		30
1,2-Dichloropropane	114		117		70-130	3		30
Dibromochloromethane	95		99		70-130	4		30
1,1,2-Trichloroethane	96		99		70-130	3		30
Tetrachloroethene	104		104		70-130	0		30
Chlorobenzene	101		102		70-130	1		30
Trichlorofluoromethane	109		106		70-139	3		30
1,2-Dichloroethane	111		114		70-130	3		30
1,1,1-Trichloroethane	96		96		70-130	0		30
Bromodichloromethane	90		92		70-130	2		30
trans-1,3-Dichloropropene	106		107		70-130	1		30
cis-1,3-Dichloropropene	100		102		70-130	2		30
1,1-Dichloropropene	99		99		70-130	0		30
Bromoform	87		92		70-130	6		30
1,1,2,2-Tetrachloroethane	96		101		70-130	5		30
Benzene	94		95		70-130	1		30
Toluene	102		102		70-130	0		30
Ethylbenzene	105		105		70-130	0		30
Chloromethane	122		122		52-130	0		30
Bromomethane	110		109		57-147	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1639451-3 WG1639451-4								
Vinyl chloride	102		100		67-130	2		30
Chloroethane	95		94		50-151	1		30
1,1-Dichloroethene	97		94		65-135	3		30
trans-1,2-Dichloroethene	96		94		70-130	2		30
Trichloroethene	98		98		70-130	0		30
1,2-Dichlorobenzene	105		108		70-130	3		30
1,3-Dichlorobenzene	108		110		70-130	2		30
1,4-Dichlorobenzene	107		110		70-130	3		30
Methyl tert butyl ether	90		92		66-130	2		30
p/m-Xylene	106		106		70-130	0		30
o-Xylene	104		106		70-130	2		30
cis-1,2-Dichloroethene	92		91		70-130	1		30
Dibromomethane	91		94		70-130	3		30
Styrene	102		104		70-130	2		30
Dichlorodifluoromethane	87		87		30-146	0		30
Acetone	132		112		54-140	16		30
Carbon disulfide	84		82		59-130	2		30
2-Butanone	112		128		70-130	13		30
Vinyl acetate	**138**	Q	**146**	Q	70-130	6		30
4-Methyl-2-pentanone	**144**	Q	**150**	Q	70-130	4		30
1,2,3-Trichloropropane	100		105		68-130	5		30
2-Hexanone	130		**137**	Q	70-130	5		30
Bromochloromethane	88		91		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2223664

Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1639451-3 WG1639451-4								
2,2-Dichloropropane	98		97		70-130	1		30
1,2-Dibromoethane	104		107		70-130	3		30
1,3-Dichloropropane	100		103		69-130	3		30
1,1,1,2-Tetrachloroethane	104		106		70-130	2		30
Bromobenzene	102		106		70-130	4		30
n-Butylbenzene	117		120		70-130	3		30
sec-Butylbenzene	111		113		70-130	2		30
tert-Butylbenzene	109		110		70-130	1		30
o-Chlorotoluene	111		116		70-130	4		30
p-Chlorotoluene	111		113		70-130	2		30
1,2-Dibromo-3-chloropropane	90		98		68-130	9		30
Hexachlorobutadiene	89		89		67-130	0		30
Isopropylbenzene	111		111		70-130	0		30
p-Isopropyltoluene	110		112		70-130	2		30
Naphthalene	91		98		70-130	7		30
Acrylonitrile	120		124		70-130	3		30
n-Propylbenzene	112		114		70-130	2		30
1,2,3-Trichlorobenzene	90		94		70-130	4		30
1,2,4-Trichlorobenzene	97		101		70-130	4		30
1,3,5-Trimethylbenzene	109		111		70-130	2		30
1,2,4-Trimethylbenzene	109		111		70-130	2		30
1,4-Dioxane	105		110		65-136	5		30
p-Diethylbenzene	111		113		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2223664

Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1639451-3 WG1639451-4								
p-Ethyltoluene	112		114		70-130	2		30
1,2,4,5-Tetramethylbenzene	110		113		70-130	3		30
Ethyl ether	77		79		67-130	3		30
trans-1,4-Dichloro-2-butene	**135**	Q	**140**	Q	70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		106		70-130
Toluene-d8	103		103		70-130
4-Bromofluorobenzene	106		106		70-130
Dibromofluoromethane	93		94		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2223664

Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1639770-3 WG1639770-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	99		110		70-130	11		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		120		63-132	9		20
1,2-Dichloropropane	96		100		70-130	4		20
Dibromochloromethane	98		100		63-130	2		20
1,1,2-Trichloroethane	96		100		70-130	4		20
Tetrachloroethene	99		100		70-130	1		20
Chlorobenzene	97		100		75-130	3		20
Trichlorofluoromethane	100		110		62-150	10		20
1,2-Dichloroethane	100		98		70-130	2		20
1,1,1-Trichloroethane	96		100		67-130	4		20
Bromodichloromethane	100		110		67-130	10		20
trans-1,3-Dichloropropene	85		91		70-130	7		20
cis-1,3-Dichloropropene	94		96		70-130	2		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	92		95		54-136	3		20
1,1,2,2-Tetrachloroethane	84		89		67-130	6		20
Benzene	100		100		70-130	0		20
Toluene	97		100		70-130	3		20
Ethylbenzene	94		98		70-130	4		20
Chloromethane	97		100		64-130	3		20
Bromomethane	41		42		39-139	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2223664

Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1639770-3 WG1639770-4								
Vinyl chloride	110		100		55-140	10		20
Chloroethane	100		100		55-138	0		20
1,1-Dichloroethene	92		100		61-145	8		20
trans-1,2-Dichloroethene	99		100		70-130	1		20
Trichloroethene	93		100		70-130	7		20
1,2-Dichlorobenzene	94		97		70-130	3		20
1,3-Dichlorobenzene	98		100		70-130	2		20
1,4-Dichlorobenzene	98		100		70-130	2		20
Methyl tert butyl ether	82		83		63-130	1		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		105		70-130	5		20
cis-1,2-Dichloroethene	97		99		70-130	2		20
Dibromomethane	95		99		70-130	4		20
1,2,3-Trichloropropane	85		86		64-130	1		20
Acrylonitrile	98		94		70-130	4		20
Styrene	100		105		70-130	5		20
Dichlorodifluoromethane	140		140		36-147	0		20
Acetone	110		120		58-148	9		20
Carbon disulfide	100		110		51-130	10		20
2-Butanone	84		83		63-138	1		20
Vinyl acetate	100		99		70-130	1		20
4-Methyl-2-pentanone	75		81		59-130	8		20
2-Hexanone	73		81		57-130	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2223664

Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1639770-3 WG1639770-4								
Bromochloromethane	110		100		70-130	10		20
2,2-Dichloropropane	88		93		63-133	6		20
1,2-Dibromoethane	95		96		70-130	1		20
1,3-Dichloropropane	94		97		70-130	3		20
1,1,1,2-Tetrachloroethane	97		100		64-130	3		20
Bromobenzene	96		100		70-130	4		20
n-Butylbenzene	84		89		53-136	6		20
sec-Butylbenzene	85		88		70-130	3		20
tert-Butylbenzene	84		91		70-130	8		20
o-Chlorotoluene	85		90		70-130	6		20
p-Chlorotoluene	87		91		70-130	4		20
1,2-Dibromo-3-chloropropane	87		93		41-144	7		20
Hexachlorobutadiene	87		93		63-130	7		20
Isopropylbenzene	85		90		70-130	6		20
p-Isopropyltoluene	84		87		70-130	4		20
Naphthalene	76		81		70-130	6		20
n-Propylbenzene	83		88		69-130	6		20
1,2,3-Trichlorobenzene	81		91		70-130	12		20
1,2,4-Trichlorobenzene	87		91		70-130	4		20
1,3,5-Trimethylbenzene	86		91		64-130	6		20
1,2,4-Trimethylbenzene	87		92		70-130	6		20
1,4-Dioxane	80		92		56-162	14		20
p-Diethylbenzene	86		91		70-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2223664

Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1639770-3 WG1639770-4								
p-Ethyltoluene	88		93		70-130	6		20
1,2,4,5-Tetramethylbenzene	85		89		70-130	5		20
Ethyl ether	89		97		59-134	9		20
trans-1,4-Dichloro-2-butene	88		90		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		99		70-130
Toluene-d8	95		96		70-130
4-Bromofluorobenzene	85		87		70-130
Dibromofluoromethane	107		107		70-130

SEMIVOLATILES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-02
Client ID: COMP SB-02(0-4.5)
Sample Location: MANHATTAN, NY

Date Collected: 05/05/22 10:55
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/17/22 05:19
Analyst: ALS
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/09/22 13:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	590		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	22	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	47.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: BATTERY PARK **Lab Number:** L2223664

Project Number: 20-1152 **Report Date:** 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-02 Date Collected: 05/05/22 10:55

Client ID: COMP SB-02(0-4.5) Date Received: 05/05/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	400		ug/kg	110	21.	1
Benzo(a)pyrene	460		ug/kg	150	45.	1
Benzo(b)fluoranthene	550		ug/kg	110	31.	1
Benzo(k)fluoranthene	150		ug/kg	110	30.	1
Chrysene	370		ug/kg	110	19.	1
Acenaphthylene	39	J	ug/kg	150	28.	1
Anthracene	59	J	ug/kg	110	36.	1
Benzo(ghi)perylene	310		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	190		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	75	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	330		ug/kg	150	26.	1
Pyrene	600		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	77.	1
Dibenzofuran	ND		ug/kg	180	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-02
Client ID: COMP SB-02(0-4.5)
Sample Location: MANHATTAN, NY
Date Collected: 05/05/22 10:55
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	19	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.5	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	102		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	115		30-120
2,4,6-Tribromophenol	71		10-136
4-Terphenyl-d14	120		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-04
Client ID: COMP SB-03(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/05/22 12:50
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/17/22 01:10
Analyst: ALS
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/09/22 13:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	750		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	23	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: BATTERY PARK **Lab Number:** L2223664

Project Number: 20-1152 **Report Date:** 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-04 Date Collected: 05/05/22 12:50

Client ID: COMP SB-03(0-5) Date Received: 05/05/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	450		ug/kg	110	21.	1
Benzo(a)pyrene	500		ug/kg	150	45.	1
Benzo(b)fluoranthene	540		ug/kg	110	31.	1
Benzo(k)fluoranthene	530		ug/kg	110	30.	1
Chrysene	420		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	61	J	ug/kg	110	36.	1
Benzo(ghi)perylene	280		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	230		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	71	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	300		ug/kg	150	26.	1
Pyrene	760		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-04
Client ID: COMP SB-03(0-5)
Sample Location: MANHATTAN, NY
Date Collected: 05/05/22 12:50
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.5	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	79		18-120

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-06
Client ID: FIELD BLANK-SOIL
Sample Location: MANHATTAN, NY

Date Collected: 05/05/22 13:45
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 05/09/22 18:25
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 05/07/22 16:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	0.44	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Hexachlorobenzene	ND		ug/l	2.0	0.46	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
2-Chloronaphthalene	ND		ug/l	2.0	0.44	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
Fluoranthene	ND		ug/l	2.0	0.26	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
Hexachlorobutadiene	ND		ug/l	2.0	0.66	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Hexachloroethane	ND		ug/l	2.0	0.58	1
Isophorone	ND		ug/l	5.0	1.2	1
Naphthalene	ND		ug/l	2.0	0.46	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

Project Name: BATTERY PARK **Lab Number:** L2223664

Project Number: 20-1152 **Report Date:** 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-06 Date Collected: 05/05/22 13:45

Client ID: FIELD BLANK-SOIL Date Received: 05/05/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Benzo(a)anthracene	ND		ug/l	2.0	0.32	1
Benzo(a)pyrene	ND		ug/l	2.0	0.41	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37	1
Chrysene	ND		ug/l	2.0	0.34	1
Acenaphthylene	ND		ug/l	2.0	0.46	1
Anthracene	ND		ug/l	2.0	0.33	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.30	1
Fluorene	ND		ug/l	2.0	0.41	1
Phenanthrene	ND		ug/l	2.0	0.33	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40	1
Pyrene	ND		ug/l	2.0	0.28	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
2-Methylnaphthalene	ND		ug/l	2.0	0.45	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
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
Pentachlorophenol	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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-06
Client ID: FIELD BLANK-SOIL
Sample Location: MANHATTAN, NY
Date Collected: 05/05/22 13:45
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1
Tentatively Identified Compounds						
Total TIC Compounds	13.5	J	ug/l			1
Unknown	1.74	J	ug/l			1
Unknown Organic Acid	1.74	J	ug/l			1
Unknown Alkane	1.67	J	ug/l			1
Unknown	2.00	J	ug/l			1
Unknown	4.14	J	ug/l			1
Unknown	2.22	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		21-120
Phenol-d6	51		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	73		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/08/22 11:44
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 05/06/22 20:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1635587-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
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
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/08/22 11:44
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 05/06/22 20:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1635587-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
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
2-Methylnaphthalene	ND		ug/l	2.0	0.45
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
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

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/08/22 11:44
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 05/06/22 20:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1635587-1					
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
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Tentatively Identified Compounds			
Total TIC Compounds	19.6	J	ug/l
Unknown Organic Acid	9.42	J	ug/l
Unknown Organic Acid	8.22	J	ug/l
Unknown	2.00	J	ug/l

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/08/22 11:44
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 05/06/22 20:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1635587-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		21-120
Phenol-d6	51		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	63		10-120
4-Terphenyl-d14	78		41-149

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/10/22 16:18
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 05/09/22 13:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,04 Batch: WG1636184-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	140	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	18.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	170	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	140	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	140	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/10/22 16:18
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 05/09/22 13:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,04 Batch: WG1636184-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	39.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	22.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	21.
4-Chloroaniline	ND		ug/kg	160	29.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	30.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	140	26.
2,4-Dimethylphenol	ND		ug/kg	160	53.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/10/22 16:18
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 05/09/22 13:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,04 Batch: WG1636184-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	75.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	49.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.4
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	75		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

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: WG1635587-2 WG1635587-3								
Acenaphthene	66		66		37-111	0		30
1,2,4-Trichlorobenzene	60		55		39-98	9		30
Hexachlorobenzene	66		66		40-140	0		30
Bis(2-chloroethyl)ether	66		64		40-140	3		30
2-Chloronaphthalene	64		60		40-140	6		30
1,2-Dichlorobenzene	59		54		40-140	9		30
1,3-Dichlorobenzene	58		54		40-140	7		30
1,4-Dichlorobenzene	60		54		36-97	11		30
3,3'-Dichlorobenzidine	57		62		40-140	8		30
2,4-Dinitrotoluene	80		81		48-143	1		30
2,6-Dinitrotoluene	74		79		40-140	7		30
Fluoranthene	72		70		40-140	3		30
4-Chlorophenyl phenyl ether	67		65		40-140	3		30
4-Bromophenyl phenyl ether	66		66		40-140	0		30
Bis(2-chloroisopropyl)ether	64		61		40-140	5		30
Bis(2-chloroethoxy)methane	67		65		40-140	3		30
Hexachlorobutadiene	58		54		40-140	7		30
Hexachlorocyclopentadiene	54		52		40-140	4		30
Hexachloroethane	57		49		40-140	15		30
Isophorone	62		59		40-140	5		30
Naphthalene	66		62		40-140	6		30
Nitrobenzene	71		70		40-140	1		30
NDPA/DPA	69		72		40-140	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

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: WG1635587-2 WG1635587-3								
n-Nitrosodi-n-propylamine	66		65		29-132	2		30
Bis(2-ethylhexyl)phthalate	72		78		40-140	8		30
Butyl benzyl phthalate	72		72		40-140	0		30
Di-n-butylphthalate	70		70		40-140	0		30
Di-n-octylphthalate	71		77		40-140	8		30
Diethyl phthalate	70		70		40-140	0		30
Dimethyl phthalate	68		66		40-140	3		30
Benzo(a)anthracene	71		74		40-140	4		30
Benzo(a)pyrene	74		77		40-140	4		30
Benzo(b)fluoranthene	74		75		40-140	1		30
Benzo(k)fluoranthene	74		76		40-140	3		30
Chrysene	73		76		40-140	4		30
Acenaphthylene	66		64		45-123	3		30
Anthracene	70		71		40-140	1		30
Benzo(ghi)perylene	76		74		40-140	3		30
Fluorene	68		68		40-140	0		30
Phenanthrene	69		69		40-140	0		30
Dibenzo(a,h)anthracene	77		77		40-140	0		30
Indeno(1,2,3-cd)pyrene	78		77		40-140	1		30
Pyrene	70		71		26-127	1		30
Biphenyl	69		65		40-140	6		30
4-Chloroaniline	58		63		40-140	8		30
2-Nitroaniline	82		80		52-143	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

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: WG1635587-2 WG1635587-3								
3-Nitroaniline	78		79		25-145	1		30
4-Nitroaniline	78		81		51-143	4		30
Dibenzofuran	70		69		40-140	1		30
2-Methylnaphthalene	64		62		40-140	3		30
1,2,4,5-Tetrachlorobenzene	61		59		2-134	3		30
Acetophenone	65		64		39-129	2		30
2,4,6-Trichlorophenol	69		70		30-130	1		30
p-Chloro-m-cresol	76		69		23-97	10		30
2-Chlorophenol	69		66		27-123	4		30
2,4-Dichlorophenol	68		67		30-130	1		30
2,4-Dimethylphenol	66		64		30-130	3		30
2-Nitrophenol	80		77		30-130	4		30
4-Nitrophenol	73		79		10-80	8		30
2,4-Dinitrophenol	83		98		20-130	17		30
4,6-Dinitro-o-cresol	92		94		20-164	2		30
Pentachlorophenol	67		74		9-103	10		30
Phenol	49		50		12-110	2		30
2-Methylphenol	65		66		30-130	2		30
3-Methylphenol/4-Methylphenol	67		66		30-130	2		30
2,4,5-Trichlorophenol	72		69		30-130	4		30
Benzoic Acid	48		65		10-164	30		30
Benzyl Alcohol	63		64		26-116	2		30
Carbazole	74		73		55-144	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2223664

Report Date: 06/06/22

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: WG1635587-2 WG1635587-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	64		62		21-120
Phenol-d6	49		50		10-120
Nitrobenzene-d5	69		67		23-120
2-Fluorobiphenyl	65		64		15-120
2,4,6-Tribromophenol	70		75		10-120
4-Terphenyl-d14	71		69		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2223664

Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04 Batch: WG1636184-2 WG1636184-3								
Acenaphthene	77		84		31-137	9		50
1,2,4-Trichlorobenzene	71		77		38-107	8		50
Hexachlorobenzene	73		81		40-140	10		50
Bis(2-chloroethyl)ether	68		75		40-140	10		50
2-Chloronaphthalene	76		78		40-140	3		50
1,2-Dichlorobenzene	69		68		40-140	1		50
1,3-Dichlorobenzene	67		71		40-140	6		50
1,4-Dichlorobenzene	70		72		28-104	3		50
3,3'-Dichlorobenzidine	42		43		40-140	2		50
2,4-Dinitrotoluene	81		85		40-132	5		50
2,6-Dinitrotoluene	83		87		40-140	5		50
Fluoranthene	74		81		40-140	9		50
4-Chlorophenyl phenyl ether	78		85		40-140	9		50
4-Bromophenyl phenyl ether	72		80		40-140	11		50
Bis(2-chloroisopropyl)ether	76		76		40-140	0		50
Bis(2-chloroethoxy)methane	68		70		40-117	3		50
Hexachlorobutadiene	70		74		40-140	6		50
Hexachlorocyclopentadiene	83		86		40-140	4		50
Hexachloroethane	65		68		40-140	5		50
Isophorone	66		69		40-140	4		50
Naphthalene	70		74		40-140	6		50
Nitrobenzene	65		69		40-140	6		50
NDPA/DPA	75		82		36-157	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2223664

Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04 Batch: WG1636184-2 WG1636184-3								
n-Nitrosodi-n-propylamine	67		69		32-121	3		50
Bis(2-ethylhexyl)phthalate	70		74		40-140	6		50
Butyl benzyl phthalate	75		79		40-140	5		50
Di-n-butylphthalate	73		76		40-140	4		50
Di-n-octylphthalate	72		80		40-140	11		50
Diethyl phthalate	72		78		40-140	8		50
Dimethyl phthalate	78		83		40-140	6		50
Benzo(a)anthracene	75		82		40-140	9		50
Benzo(a)pyrene	76		82		40-140	8		50
Benzo(b)fluoranthene	70		81		40-140	15		50
Benzo(k)fluoranthene	78		84		40-140	7		50
Chrysene	77		82		40-140	6		50
Acenaphthylene	77		80		40-140	4		50
Anthracene	75		80		40-140	6		50
Benzo(ghi)perylene	77		82		40-140	6		50
Fluorene	76		82		40-140	8		50
Phenanthrene	74		80		40-140	8		50
Dibenzo(a,h)anthracene	77		82		40-140	6		50
Indeno(1,2,3-cd)pyrene	83		86		40-140	4		50
Pyrene	78		83		35-142	6		50
Biphenyl	78		83		37-127	6		50
4-Chloroaniline	47		**29**	Q	40-140	47		50
2-Nitroaniline	83		87		47-134	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2223664

Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04 Batch: WG1636184-2 WG1636184-3								
3-Nitroaniline	57		61		26-129	7		50
4-Nitroaniline	75		83		41-125	10		50
Dibenzofuran	73		78		40-140	7		50
2-Methylnaphthalene	77		83		40-140	8		50
1,2,4,5-Tetrachlorobenzene	78		83		40-117	6		50
Acetophenone	68		71		14-144	4		50
2,4,6-Trichlorophenol	87		93		30-130	7		50
p-Chloro-m-cresol	76		82		26-103	8		50
2-Chlorophenol	76		84		25-102	10		50
2,4-Dichlorophenol	81		80		30-130	1		50
2,4-Dimethylphenol	73		76		30-130	4		50
2-Nitrophenol	77		78		30-130	1		50
4-Nitrophenol	68		74		11-114	8		50
2,4-Dinitrophenol	75		86		4-130	14		50
4,6-Dinitro-o-cresol	89		100		10-130	12		50
Pentachlorophenol	77		90		17-109	16		50
Phenol	82		86		26-90	5		50
2-Methylphenol	77		78		30-130.	1		50
3-Methylphenol/4-Methylphenol	77		82		30-130	6		50
2,4,5-Trichlorophenol	83		89		30-130	7		50
Benzoic Acid	42		45		10-110	7		50
Benzyl Alcohol	71		72		40-140	1		50
Carbazole	75		82		54-128	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2223664

Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04 Batch: WG1636184-2 WG1636184-3								
1,4-Dioxane	40		40		40-140	0		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	70		79		25-120
Phenol-d6	75		80		10-120
Nitrobenzene-d5	65		66		23-120
2-Fluorobiphenyl	74		80		30-120
2,4,6-Tribromophenol	72		81		10-136
4-Terphenyl-d14	75		80		18-120

PCBS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-02
Client ID: COMP SB-02(0-4.5)
Sample Location: MANHATTAN, NY

Date Collected: 05/05/22 10:55
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/11/22 11:04
Analyst: ER
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/10/22 17:26
Cleanup Method: EPA 3665A
Cleanup Date: 05/11/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/11/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.8	3.27	1	A
Aroclor 1221	ND		ug/kg	36.8	3.69	1	A
Aroclor 1232	ND		ug/kg	36.8	7.81	1	A
Aroclor 1242	ND		ug/kg	36.8	4.96	1	A
Aroclor 1248	ND		ug/kg	36.8	5.52	1	A
Aroclor 1254	ND		ug/kg	36.8	4.03	1	A
Aroclor 1260	9.17	J	ug/kg	36.8	6.80	1	A
Aroclor 1262	ND		ug/kg	36.8	4.68	1	A
Aroclor 1268	ND		ug/kg	36.8	3.82	1	A
PCBs, Total	9.17	J	ug/kg	36.8	3.27	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-04
Client ID: COMP SB-03(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/05/22 12:50
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/11/22 11:17
Analyst: ER
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/10/22 17:26
Cleanup Method: EPA 3665A
Cleanup Date: 05/11/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/11/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.7	3.17	1	A
Aroclor 1221	ND		ug/kg	35.7	3.58	1	A
Aroclor 1232	ND		ug/kg	35.7	7.57	1	A
Aroclor 1242	ND		ug/kg	35.7	4.82	1	A
Aroclor 1248	ND		ug/kg	35.7	5.36	1	A
Aroclor 1254	ND		ug/kg	35.7	3.91	1	A
Aroclor 1260	ND		ug/kg	35.7	6.60	1	A
Aroclor 1262	ND		ug/kg	35.7	4.54	1	A
Aroclor 1268	ND		ug/kg	35.7	3.70	1	A
PCBs, Total	ND		ug/kg	35.7	3.17	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	52		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-06
Client ID: FIELD BLANK-SOIL
Sample Location: MANHATTAN, NY

Date Collected: 05/05/22 13:45
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 05/19/22 13:08
Analyst: JM

Extraction Method: EPA 3510C
Extraction Date: 05/18/22 16:22
Cleanup Method: EPA 3665A
Cleanup Date: 05/19/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/19/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/11/22 15:44
Analyst: AD

Extraction Method: EPA 3546
Extraction Date: 05/10/22 12:26
Cleanup Method: EPA 3665A
Cleanup Date: 05/10/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/11/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02,04 Batch: WG1636668-1						
Aroclor 1016	ND		ug/kg	31.5	2.80	A
Aroclor 1221	ND		ug/kg	31.5	3.16	A
Aroclor 1232	ND		ug/kg	31.5	6.69	A
Aroclor 1242	ND		ug/kg	31.5	4.25	A
Aroclor 1248	ND		ug/kg	31.5	4.73	A
Aroclor 1254	ND		ug/kg	31.5	3.45	A
Aroclor 1260	ND		ug/kg	31.5	5.83	A
Aroclor 1262	ND		ug/kg	31.5	4.01	A
Aroclor 1268	ND		ug/kg	31.5	3.27	A
PCBs, Total	ND		ug/kg	31.5	2.80	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	55		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/19/22 11:29
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 05/18/22 16:22
Cleanup Method: EPA 3665A
Cleanup Date: 05/19/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/19/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 06 Batch: WG1640120-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	67		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2223664

Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02,04 Batch: WG1636668-2 WG1636668-3									
Aroclor 1016	61		73		40-140	18		50	A
Aroclor 1260	55		63		40-140	14		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		72		30-150	A
Decachlorobiphenyl	55		62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		61		30-150	B
Decachlorobiphenyl	50		56		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 06 Batch: WG1640120-2 WG1640120-3									
Aroclor 1016	80		64		40-140	22		50	A
Aroclor 1260	78		65		40-140	19		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		75		30-150	A
Decachlorobiphenyl	87		71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		67		30-150	B
Decachlorobiphenyl	83		70		30-150	B

PESTICIDES

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-02
Client ID: COMP SB-02(0-4.5)
Sample Location: MANHATTAN, NY

Date Collected: 05/05/22 10:55
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/12/22 01:11
Analyst: EJL
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/09/22 14:14
Cleanup Method: EPA 3620B
Cleanup Date: 05/09/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/10/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.76	0.346	1	A
Lindane	ND		ug/kg	0.736	0.329	1	A
Alpha-BHC	ND		ug/kg	0.736	0.209	1	A
Beta-BHC	ND		ug/kg	1.76	0.669	1	A
Heptachlor	ND		ug/kg	0.883	0.396	1	A
Aldrin	ND		ug/kg	1.76	0.622	1	A
Heptachlor epoxide	ND		ug/kg	3.31	0.993	1	A
Endrin	ND		ug/kg	0.736	0.302	1	A
Endrin aldehyde	ND		ug/kg	2.21	0.772	1	A
Endrin ketone	ND		ug/kg	1.76	0.454	1	A
Dieldrin	ND		ug/kg	1.10	0.552	1	A
4,4'-DDE	0.850	JP	ug/kg	1.76	0.408	1	A
4,4'-DDD	ND		ug/kg	1.76	0.630	1	A
4,4'-DDT	2.06	JP	ug/kg	3.31	1.42	1	B
Endosulfan I	ND		ug/kg	1.76	0.417	1	A
Endosulfan II	ND		ug/kg	1.76	0.590	1	A
Endosulfan sulfate	ND		ug/kg	0.736	0.350	1	A
Methoxychlor	ND		ug/kg	3.31	1.03	1	A
Toxaphene	ND		ug/kg	33.1	9.27	1	A
cis-Chlordane	0.750	J	ug/kg	2.21	0.615	1	A
trans-Chlordane	1.16	JIP	ug/kg	2.21	0.582	1	B
Chlordane	ND		ug/kg	14.7	5.85	1	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-02
Client ID: COMP SB-02(0-4.5)
Sample Location: MANHATTAN, NY
Date Collected: 05/05/22 10:55
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-02
Client ID: COMP SB-02(0-4.5)
Sample Location: MANHATTAN, NY

Date Collected: 05/05/22 10:55
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/10/22 11:54
Analyst: AKM
Percent Solids: 89%
Methylation Date: 05/08/22 05:15

Extraction Method: EPA 8151A
Extraction Date: 05/07/22 08:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	187	11.8	1	B
2,4,5-T	ND		ug/kg	187	5.80	1	B
2,4,5-TP (Silvex)	ND		ug/kg	187	4.97	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	79		30-150	A
DCAA	72		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-04
Client ID: COMP SB-03(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/05/22 12:50
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/10/22 14:19
Analyst: EJL
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/09/22 14:14
Cleanup Method: EPA 3620B
Cleanup Date: 05/09/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/10/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.70	0.332	1	A
Lindane	ND		ug/kg	0.707	0.316	1	A
Alpha-BHC	ND		ug/kg	0.707	0.201	1	A
Beta-BHC	ND		ug/kg	1.70	0.643	1	A
Heptachlor	ND		ug/kg	0.848	0.380	1	A
Aldrin	ND		ug/kg	1.70	0.597	1	A
Heptachlor epoxide	ND		ug/kg	3.18	0.954	1	A
Endrin	ND		ug/kg	0.707	0.290	1	A
Endrin aldehyde	ND		ug/kg	2.12	0.742	1	A
Endrin ketone	ND		ug/kg	1.70	0.437	1	A
Dieldrin	ND		ug/kg	1.06	0.530	1	A
4,4'-DDE	ND		ug/kg	1.70	0.392	1	A
4,4'-DDD	ND		ug/kg	1.70	0.605	1	A
4,4'-DDT	ND		ug/kg	3.18	1.36	1	A
Endosulfan I	ND		ug/kg	1.70	0.401	1	A
Endosulfan II	ND		ug/kg	1.70	0.567	1	A
Endosulfan sulfate	ND		ug/kg	0.707	0.336	1	A
Methoxychlor	ND		ug/kg	3.18	0.989	1	A
Toxaphene	ND		ug/kg	31.8	8.90	1	A
cis-Chlordane	ND		ug/kg	2.12	0.591	1	A
trans-Chlordane	ND		ug/kg	2.12	0.560	1	A
Chlordane	ND		ug/kg	14.1	5.62	1	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-04
Client ID: COMP SB-03(0-5)
Sample Location: MANHATTAN, NY
Date Collected: 05/05/22 12:50
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	88		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-04
Client ID: COMP SB-03(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/05/22 12:50
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/10/22 12:12
Analyst: AKM
Percent Solids: 90%
Methylation Date: 05/08/22 05:15

Extraction Method: EPA 8151A
Extraction Date: 05/07/22 08:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	180	11.3	1	B
2,4,5-T	ND		ug/kg	180	5.57	1	B
2,4,5-TP (Silvex)	ND		ug/kg	180	4.78	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	91		30-150	A
DCAA	79		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-06
Client ID: FIELD BLANK-SOIL
Sample Location: MANHATTAN, NY

Date Collected: 05/05/22 13:45
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 05/13/22 09:11
Analyst: AKM

Extraction Method: EPA 3510C
Extraction Date: 05/12/22 01:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: BATTERY PARK
Lab Number: L2223664
Project Number: 20-1152
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-06
Client ID: FIELD BLANK-SOIL
Sample Location: MANHATTAN, NY
Date Collected: 05/05/22 13:45
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-06
Client ID: FIELD BLANK-SOIL
Sample Location: MANHATTAN, NY

Date Collected: 05/05/22 13:45
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 05/11/22 19:53
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 05/08/22 09:21

Methylation Date: 05/11/22 04:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	48		30-150	A
DCAA	49		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 05/09/22 10:17
Analyst: AKM

Extraction Method: EPA 8151A
Extraction Date: 05/07/22 08:30

Methylation Date: 05/08/22 05:15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 02,04 Batch: WG1635682-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.04	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	80		30-150	A
DCAA	69		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 05/11/22 18:22
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 05/08/22 09:21

Methylation Date: 05/11/22 04:37

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 06 Batch: WG1635835-1						
2,4-D	ND		ug/l	10.0	0.498	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	58		30-150	A
DCAA	55		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/10/22 11:14
Analyst: AKM

Extraction Method: EPA 3546
Extraction Date: 05/09/22 14:14
Cleanup Method: EPA 3620B
Cleanup Date: 05/09/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/10/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02,04 Batch: WG1636215-1						
Delta-BHC	ND		ug/kg	1.58	0.310	A
Lindane	ND		ug/kg	0.659	0.295	A
Alpha-BHC	ND		ug/kg	0.659	0.187	A
Beta-BHC	ND		ug/kg	1.58	0.600	A
Heptachlor	ND		ug/kg	0.791	0.355	A
Aldrin	ND		ug/kg	1.58	0.557	A
Heptachlor epoxide	ND		ug/kg	2.97	0.890	A
Endrin	ND		ug/kg	0.659	0.270	A
Endrin aldehyde	ND		ug/kg	1.98	0.692	A
Endrin ketone	ND		ug/kg	1.58	0.407	A
Dieldrin	ND		ug/kg	0.989	0.494	A
4,4'-DDE	ND		ug/kg	1.58	0.366	A
4,4'-DDD	ND		ug/kg	1.58	0.564	A
4,4'-DDT	ND		ug/kg	2.97	1.27	A
Endosulfan I	ND		ug/kg	1.58	0.374	A
Endosulfan II	ND		ug/kg	1.58	0.529	A
Endosulfan sulfate	ND		ug/kg	0.659	0.314	A
Methoxychlor	ND		ug/kg	2.97	0.923	A
Toxaphene	ND		ug/kg	29.7	8.30	A
cis-Chlordane	ND		ug/kg	1.98	0.551	A
trans-Chlordane	ND		ug/kg	1.98	0.522	A
Chlordane	ND		ug/kg	13.2	5.24	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/10/22 11:14
Analyst: AKM

Extraction Method: EPA 3546
Extraction Date: 05/09/22 14:14
Cleanup Method: EPA 3620B
Cleanup Date: 05/09/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/10/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02,04 Batch: WG1636215-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	46		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/12/22 06:01
Analyst: AKM

Extraction Method: EPA 3510C
Extraction Date: 05/11/22 07:47

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 06 Batch: WG1637021-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/12/22 06:01
Analyst: AKM

Extraction Method: EPA 3510C
Extraction Date: 05/11/22 07:47

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 06 Batch: WG1637021-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	52		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 02,04 Batch: WG1635682-2 WG1635682-3									
2,4-D	85		79		30-150	7		30	A
2,4,5-T	88		80		30-150	10		30	A
2,4,5-TP (Silvex)	85		79		30-150	7		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	86		74		30-150	A
DCAA	86		73		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 06 Batch: WG1635835-2 WG1635835-3									
2,4-D	114		109		30-150	4		25	A
2,4,5-T	77		107		30-150	**33**	Q	25	A
2,4,5-TP (Silvex)	82		110		30-150	**29**	Q	25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	65		121		30-150	A
DCAA	80		107		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2223664

Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02,04 Batch: WG1636215-2 WG1636215-3									
Delta-BHC	62		56		30-150	10		30	A
Lindane	66		58		30-150	13		30	A
Alpha-BHC	66		60		30-150	10		30	A
Beta-BHC	62		56		30-150	10		30	A
Heptachlor	69		64		30-150	8		30	A
Aldrin	62		57		30-150	8		30	A
Heptachlor epoxide	58		50		30-150	15		30	A
Endrin	65		59		30-150	10		30	A
Endrin aldehyde	48		47		30-150	2		30	A
Endrin ketone	62		60		30-150	3		30	A
Dieldrin	66		60		30-150	10		30	A
4,4'-DDE	60		54		30-150	11		30	A
4,4'-DDD	65		59		30-150	10		30	A
4,4'-DDT	64		58		30-150	10		30	A
Endosulfan I	60		54		30-150	11		30	A
Endosulfan II	62		57		30-150	8		30	A
Endosulfan sulfate	46		44		30-150	4		30	A
Methoxychlor	66		61		30-150	8		30	A
cis-Chlordane	55		50		30-150	10		30	A
trans-Chlordane	65		60		30-150	8		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2223664

Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02,04 Batch: WG1636215-2 WG1636215-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		50		30-150	A
Decachlorobiphenyl	73		68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		53		30-150	B
Decachlorobiphenyl	87		81		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 06 Batch: WG1637021-2 WG1637021-3									
Delta-BHC	67		67		30-150	0		20	A
Lindane	75		74		30-150	2		20	A
Alpha-BHC	88		79		30-150	10		20	A
Beta-BHC	80		77		30-150	3		20	A
Heptachlor	72		72		30-150	0		20	A
Aldrin	74		71		30-150	5		20	A
Heptachlor epoxide	67		69		30-150	2		20	A
Endrin	67		69		30-150	3		20	A
Endrin aldehyde	55		55		30-150	0		20	A
Endrin ketone	64		65		30-150	2		20	A
Dieldrin	69		72		30-150	4		20	A
4,4'-DDE	68		69		30-150	1		20	A
4,4'-DDD	70		73		30-150	4		20	A
4,4'-DDT	68		70		30-150	3		20	A
Endosulfan I	66		66		30-150	0		20	A
Endosulfan II	65		67		30-150	2		20	A
Endosulfan sulfate	61		62		30-150	3		20	A
Methoxychlor	68		69		30-150	1		20	A
cis-Chlordane	63		63		30-150	1		20	A
trans-Chlordane	79		76		30-150	3		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2223664

Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 06 Batch: WG1637021-2 WG1637021-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		62		30-150	A
Decachlorobiphenyl	53		55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		66		30-150	B
Decachlorobiphenyl	52		52		30-150	B

METALS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-02
Client ID: COMP SB-02(0-4.5)
Sample Location: MANHATTAN, NY
Date Collected: 05/05/22 10:55
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4350		mg/kg	8.70	2.35	2	05/20/22 05:40	06/02/22 12:37	EPA 3050B	1,6010D	NB
Antimony, Total	ND		mg/kg	4.35	0.331	2	05/20/22 05:40	06/02/22 12:37	EPA 3050B	1,6010D	NB
Arsenic, Total	3.12		mg/kg	0.870	0.181	2	05/20/22 05:40	06/02/22 12:37	EPA 3050B	1,6010D	NB
Barium, Total	45.1		mg/kg	0.870	0.151	2	05/20/22 05:40	06/02/22 12:37	EPA 3050B	1,6010D	NB
Beryllium, Total	0.183	J	mg/kg	0.435	0.029	2	05/20/22 05:40	06/02/22 12:37	EPA 3050B	1,6010D	NB
Cadmium, Total	0.348	J	mg/kg	0.870	0.085	2	05/20/22 05:40	06/02/22 12:37	EPA 3050B	1,6010D	NB
Calcium, Total	24400		mg/kg	8.70	3.04	2	05/20/22 05:40	06/02/22 12:37	EPA 3050B	1,6010D	NB
Chromium, Total	14.7		mg/kg	0.870	0.084	2	05/20/22 05:40	06/02/22 12:37	EPA 3050B	1,6010D	NB
Cobalt, Total	4.43		mg/kg	1.74	0.144	2	05/20/22 05:40	06/02/22 12:37	EPA 3050B	1,6010D	NB
Copper, Total	16.1		mg/kg	0.870	0.224	2	05/20/22 05:40	06/02/22 12:37	EPA 3050B	1,6010D	NB
Iron, Total	8850		mg/kg	4.35	0.786	2	05/20/22 05:40	06/02/22 12:37	EPA 3050B	1,6010D	NB
Lead, Total	56.4		mg/kg	4.35	0.233	2	05/20/22 05:40	06/02/22 12:37	EPA 3050B	1,6010D	NB
Magnesium, Total	4700		mg/kg	8.70	1.34	2	05/20/22 05:40	06/02/22 12:37	EPA 3050B	1,6010D	NB
Manganese, Total	318		mg/kg	0.870	0.138	2	05/20/22 05:40	06/02/22 12:37	EPA 3050B	1,6010D	NB
Mercury, Total	0.178		mg/kg	0.072	0.047	1	05/20/22 11:25	05/20/22 19:50	EPA 7471B	1,7471B	DMB
Nickel, Total	14.1		mg/kg	2.18	0.211	2	05/20/22 05:40	06/02/22 12:37	EPA 3050B	1,6010D	NB
Potassium, Total	830		mg/kg	218	12.5	2	05/20/22 05:40	06/02/22 12:37	EPA 3050B	1,6010D	NB
Selenium, Total	ND		mg/kg	1.74	0.224	2	05/20/22 05:40	06/02/22 12:37	EPA 3050B	1,6010D	NB
Silver, Total	0.635	J	mg/kg	0.870	0.246	2	05/20/22 05:40	06/02/22 12:37	EPA 3050B	1,6010D	NB
Sodium, Total	217		mg/kg	174	2.74	2	05/20/22 05:40	06/02/22 12:37	EPA 3050B	1,6010D	NB
Thallium, Total	ND		mg/kg	1.74	0.274	2	05/20/22 05:40	06/02/22 12:37	EPA 3050B	1,6010D	NB
Vanadium, Total	14.4		mg/kg	0.870	0.177	2	05/20/22 05:40	06/02/22 12:37	EPA 3050B	1,6010D	NB
Zinc, Total	39.2		mg/kg	4.35	0.255	2	05/20/22 05:40	06/02/22 12:37	EPA 3050B	1,6010D	NB

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-04
Client ID: COMP SB-03(0-5)
Sample Location: MANHATTAN, NY
Date Collected: 05/05/22 12:50
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3760		mg/kg	8.53	2.30	2	05/20/22 05:40	06/02/22 12:41	EPA 3050B	1,6010D	NB
Antimony, Total	0.862	J	mg/kg	4.26	0.324	2	05/20/22 05:40	06/02/22 12:41	EPA 3050B	1,6010D	NB
Arsenic, Total	2.41		mg/kg	0.853	0.177	2	05/20/22 05:40	06/02/22 12:41	EPA 3050B	1,6010D	NB
Barium, Total	58.3		mg/kg	0.853	0.148	2	05/20/22 05:40	06/02/22 12:41	EPA 3050B	1,6010D	NB
Beryllium, Total	0.213	J	mg/kg	0.426	0.028	2	05/20/22 05:40	06/02/22 12:41	EPA 3050B	1,6010D	NB
Cadmium, Total	0.469	J	mg/kg	0.853	0.084	2	05/20/22 05:40	06/02/22 12:41	EPA 3050B	1,6010D	NB
Calcium, Total	11900		mg/kg	8.53	2.98	2	05/20/22 05:40	06/02/22 12:41	EPA 3050B	1,6010D	NB
Chromium, Total	12.8		mg/kg	0.853	0.082	2	05/20/22 05:40	06/02/22 12:41	EPA 3050B	1,6010D	NB
Cobalt, Total	4.73		mg/kg	1.71	0.142	2	05/20/22 05:40	06/02/22 12:41	EPA 3050B	1,6010D	NB
Copper, Total	63.2		mg/kg	0.853	0.220	2	05/20/22 05:40	06/02/22 12:41	EPA 3050B	1,6010D	NB
Iron, Total	12400		mg/kg	4.26	0.770	2	05/20/22 05:40	06/02/22 12:41	EPA 3050B	1,6010D	NB
Lead, Total	300		mg/kg	4.26	0.229	2	05/20/22 05:40	06/02/22 12:41	EPA 3050B	1,6010D	NB
Magnesium, Total	1710		mg/kg	8.53	1.31	2	05/20/22 05:40	06/02/22 12:41	EPA 3050B	1,6010D	NB
Manganese, Total	372		mg/kg	0.853	0.136	2	05/20/22 05:40	06/02/22 12:41	EPA 3050B	1,6010D	NB
Mercury, Total	0.275		mg/kg	0.071	0.046	1	05/20/22 11:25	05/20/22 19:53	EPA 7471B	1,7471B	DMB
Nickel, Total	17.7		mg/kg	2.13	0.206	2	05/20/22 05:40	06/02/22 12:41	EPA 3050B	1,6010D	NB
Potassium, Total	694		mg/kg	213	12.3	2	05/20/22 05:40	06/02/22 12:41	EPA 3050B	1,6010D	NB
Selenium, Total	ND		mg/kg	1.71	0.220	2	05/20/22 05:40	06/02/22 12:41	EPA 3050B	1,6010D	NB
Silver, Total	ND		mg/kg	0.853	0.241	2	05/20/22 05:40	06/02/22 12:41	EPA 3050B	1,6010D	NB
Sodium, Total	88.7	J	mg/kg	171	2.69	2	05/20/22 05:40	06/02/22 12:41	EPA 3050B	1,6010D	NB
Thallium, Total	ND		mg/kg	1.71	0.269	2	05/20/22 05:40	06/02/22 12:41	EPA 3050B	1,6010D	NB
Vanadium, Total	12.8		mg/kg	0.853	0.173	2	05/20/22 05:40	06/02/22 12:41	EPA 3050B	1,6010D	NB
Zinc, Total	57.7		mg/kg	4.26	0.250	2	05/20/22 05:40	06/02/22 12:41	EPA 3050B	1,6010D	NB

Project Name: BATTERY PARK
Lab Number: L2223664
Project Number: 20-1152
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-05
Client ID: COMP(SB-02,SB-03)
Sample Location: MANHATTAN, NY
Date Collected: 05/05/22 13:00
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%
TCLP/SPLP Ext. Date: 05/07/22 01:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	05/26/22 15:44	06/02/22 22:48	EPA 3015	1,6010D	DL
Barium, TCLP	0.429	J	mg/l	0.500	0.021	1	05/26/22 15:44	06/02/22 22:48	EPA 3015	1,6010D	DL
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/26/22 15:44	06/02/22 22:48	EPA 3015	1,6010D	DL
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/26/22 15:44	06/02/22 22:48	EPA 3015	1,6010D	DL
Lead, TCLP	0.041	J	mg/l	0.500	0.027	1	05/26/22 15:44	06/02/22 22:48	EPA 3015	1,6010D	DL
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	05/27/22 15:58	05/27/22 20:22	EPA 7470A	1,7470A	AW
Selenium, TCLP	ND		mg/l	0.500	0.035	1	05/26/22 15:44	06/02/22 22:48	EPA 3015	1,6010D	DL
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/26/22 15:44	06/02/22 22:48	EPA 3015	1,6010D	DL

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-06
Client ID: FIELD BLANK-SOIL
Sample Location: MANHATTAN, NY
Date Collected: 05/05/22 13:45
Date Received: 05/05/22
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	ND		mg/l	0.100	0.032	1	05/26/22 08:11	06/03/22 18:05	EPA 3005A	1,6010D	BV
Antimony, Total	ND		mg/l	0.050	0.007	1	05/26/22 08:11	06/03/22 18:05	EPA 3005A	1,6010D	BV
Arsenic, Total	0.002	J	mg/l	0.005	0.002	1	05/26/22 08:11	06/03/22 18:05	EPA 3005A	1,6010D	BV
Barium, Total	ND		mg/l	0.010	0.002	1	05/26/22 08:11	06/03/22 18:05	EPA 3005A	1,6010D	BV
Beryllium, Total	ND		mg/l	0.005	0.001	1	05/26/22 08:11	06/03/22 18:05	EPA 3005A	1,6010D	BV
Cadmium, Total	ND		mg/l	0.005	0.001	1	05/26/22 08:11	06/03/22 18:05	EPA 3005A	1,6010D	BV
Calcium, Total	0.042	J	mg/l	0.100	0.035	1	05/26/22 08:11	06/03/22 18:05	EPA 3005A	1,6010D	BV
Chromium, Total	ND		mg/l	0.010	0.002	1	05/26/22 08:11	06/03/22 18:05	EPA 3005A	1,6010D	BV
Cobalt, Total	ND		mg/l	0.020	0.002	1	05/26/22 08:11	06/03/22 18:05	EPA 3005A	1,6010D	BV
Copper, Total	ND		mg/l	0.010	0.002	1	05/26/22 08:11	06/03/22 18:05	EPA 3005A	1,6010D	BV
Iron, Total	0.011	J	mg/l	0.050	0.009	1	05/26/22 08:11	06/03/22 18:05	EPA 3005A	1,6010D	BV
Lead, Total	ND		mg/l	0.010	0.003	1	05/26/22 08:11	06/03/22 18:05	EPA 3005A	1,6010D	BV
Magnesium, Total	ND		mg/l	0.100	0.015	1	05/26/22 08:11	06/03/22 18:05	EPA 3005A	1,6010D	BV
Manganese, Total	ND		mg/l	0.010	0.002	1	05/26/22 08:11	06/03/22 18:05	EPA 3005A	1,6010D	BV
Mercury, Total	ND		mg/l	0.00040	0.00018	1	05/26/22 08:52	05/26/22 11:52	EPA 7470A	1,7470A	DMB
Nickel, Total	ND		mg/l	0.025	0.002	1	05/26/22 08:11	06/03/22 18:05	EPA 3005A	1,6010D	BV
Potassium, Total	ND		mg/l	2.50	0.237	1	05/26/22 08:11	06/03/22 18:05	EPA 3005A	1,6010D	BV
Selenium, Total	ND		mg/l	0.010	0.004	1	05/26/22 08:11	06/03/22 18:05	EPA 3005A	1,6010D	BV
Silver, Total	ND		mg/l	0.007	0.003	1	05/26/22 08:11	06/03/22 18:05	EPA 3005A	1,6010D	BV
Sodium, Total	ND		mg/l	2.00	0.120	1	05/26/22 08:11	06/03/22 18:05	EPA 3005A	1,6010D	BV
Thallium, Total	ND		mg/l	0.020	0.003	1	05/26/22 08:11	06/03/22 18:05	EPA 3005A	1,6010D	BV
Vanadium, Total	ND		mg/l	0.010	0.002	1	05/26/22 08:11	06/03/22 18:05	EPA 3005A	1,6010D	BV
Zinc, Total	ND		mg/l	0.050	0.002	1	05/26/22 08:11	06/03/22 18:05	EPA 3005A	1,6010D	BV

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

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): 02,04 Batch: WG1640713-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	05/20/22 05:40	06/02/22 13:30	1,6010D	NB
Antimony, Total	ND		mg/kg	2.00	0.152	1	05/20/22 05:40	06/02/22 13:30	1,6010D	NB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	05/20/22 05:40	06/02/22 13:30	1,6010D	NB
Barium, Total	ND		mg/kg	0.400	0.070	1	05/20/22 05:40	06/02/22 13:30	1,6010D	NB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	05/20/22 05:40	06/02/22 13:30	1,6010D	NB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	05/20/22 05:40	06/02/22 13:30	1,6010D	NB
Calcium, Total	2.58	J	mg/kg	4.00	1.40	1	05/20/22 05:40	06/02/22 13:30	1,6010D	NB
Chromium, Total	ND		mg/kg	0.400	0.038	1	05/20/22 05:40	06/02/22 13:30	1,6010D	NB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	05/20/22 05:40	06/02/22 13:30	1,6010D	NB
Copper, Total	ND		mg/kg	0.400	0.103	1	05/20/22 05:40	06/02/22 13:30	1,6010D	NB
Iron, Total	0.540	J	mg/kg	2.00	0.361	1	05/20/22 05:40	06/02/22 13:30	1,6010D	NB
Lead, Total	ND		mg/kg	2.00	0.107	1	05/20/22 05:40	06/02/22 13:30	1,6010D	NB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	05/20/22 05:40	06/02/22 13:30	1,6010D	NB
Manganese, Total	ND		mg/kg	0.400	0.064	1	05/20/22 05:40	06/02/22 13:30	1,6010D	NB
Nickel, Total	ND		mg/kg	1.00	0.097	1	05/20/22 05:40	06/02/22 13:30	1,6010D	NB
Potassium, Total	ND		mg/kg	100	5.76	1	05/20/22 05:40	06/02/22 13:30	1,6010D	NB
Selenium, Total	ND		mg/kg	0.800	0.103	1	05/20/22 05:40	06/02/22 13:30	1,6010D	NB
Silver, Total	ND		mg/kg	0.400	0.113	1	05/20/22 05:40	06/02/22 13:30	1,6010D	NB
Sodium, Total	ND		mg/kg	80.0	1.26	1	05/20/22 05:40	06/02/22 13:30	1,6010D	NB
Thallium, Total	ND		mg/kg	0.800	0.126	1	05/20/22 05:40	06/02/22 13:30	1,6010D	NB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	05/20/22 05:40	06/02/22 13:30	1,6010D	NB
Zinc, Total	ND		mg/kg	2.00	0.117	1	05/20/22 05:40	06/02/22 13:30	1,6010D	NB

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): 02,04 Batch: WG1640717-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	05/20/22 11:25	05/20/22 19:15	1,7471B	DMB

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 05 Batch: WG1642860-1										
Arsenic, TCLP	0.054	J	mg/l	1.00	0.019	1	05/26/22 15:44	06/02/22 21:48	1,6010D	DL
Barium, TCLP	ND		mg/l	0.500	0.021	1	05/26/22 15:44	06/02/22 21:48	1,6010D	DL
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/26/22 15:44	06/02/22 21:48	1,6010D	DL
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/26/22 15:44	06/02/22 21:48	1,6010D	DL
Lead, TCLP	ND		mg/l	0.500	0.027	1	05/26/22 15:44	06/02/22 21:48	1,6010D	DL
Selenium, TCLP	ND		mg/l	0.500	0.035	1	05/26/22 15:44	06/02/22 21:48	1,6010D	DL
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/26/22 15:44	06/02/22 21:48	1,6010D	DL

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 05/07/22 01:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 06 Batch: WG1642955-1										
Aluminum, Total	ND		mg/l	0.100	0.032	1	05/26/22 08:11	06/03/22 18:00	1,6010D	BV
Antimony, Total	ND		mg/l	0.050	0.007	1	05/26/22 08:11	06/03/22 18:00	1,6010D	BV
Arsenic, Total	0.004	J	mg/l	0.005	0.002	1	05/26/22 08:11	06/03/22 18:00	1,6010D	BV
Barium, Total	ND		mg/l	0.010	0.002	1	05/26/22 08:11	06/03/22 18:00	1,6010D	BV
Beryllium, Total	ND		mg/l	0.005	0.001	1	05/26/22 08:11	06/03/22 18:00	1,6010D	BV
Cadmium, Total	ND		mg/l	0.005	0.001	1	05/26/22 08:11	06/03/22 18:00	1,6010D	BV
Calcium, Total	ND		mg/l	0.100	0.035	1	05/26/22 08:11	06/03/22 18:00	1,6010D	BV
Chromium, Total	ND		mg/l	0.010	0.002	1	05/26/22 08:11	06/03/22 18:00	1,6010D	BV
Cobalt, Total	ND		mg/l	0.020	0.002	1	05/26/22 08:11	06/03/22 18:00	1,6010D	BV
Copper, Total	ND		mg/l	0.010	0.002	1	05/26/22 08:11	06/03/22 18:00	1,6010D	BV
Iron, Total	ND		mg/l	0.050	0.009	1	05/26/22 08:11	06/03/22 18:00	1,6010D	BV
Lead, Total	ND		mg/l	0.010	0.003	1	05/26/22 08:11	06/03/22 18:00	1,6010D	BV
Magnesium, Total	ND		mg/l	0.100	0.015	1	05/26/22 08:11	06/03/22 18:00	1,6010D	BV
Manganese, Total	ND		mg/l	0.010	0.002	1	05/26/22 08:11	06/03/22 18:00	1,6010D	BV

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Nickel, Total	ND	mg/l	0.025	0.002	1	05/26/22 08:11	06/03/22 18:00	1,6010D	BV
Potassium, Total	ND	mg/l	2.50	0.237	1	05/26/22 08:11	06/03/22 18:00	1,6010D	BV
Selenium, Total	ND	mg/l	0.010	0.004	1	05/26/22 08:11	06/03/22 18:00	1,6010D	BV
Silver, Total	ND	mg/l	0.007	0.003	1	05/26/22 08:11	06/03/22 18:00	1,6010D	BV
Sodium, Total	ND	mg/l	2.00	0.120	1	05/26/22 08:11	06/03/22 18:00	1,6010D	BV
Thallium, Total	ND	mg/l	0.020	0.003	1	05/26/22 08:11	06/03/22 18:00	1,6010D	BV
Vanadium, Total	ND	mg/l	0.010	0.002	1	05/26/22 08:11	06/03/22 18:00	1,6010D	BV
Zinc, Total	ND	mg/l	0.050	0.002	1	05/26/22 08:11	06/03/22 18:00	1,6010D	BV

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): 06 Batch: WG1642956-1										
Mercury, Total	0.00010	J	mg/l	0.00020	0.00009	1	05/26/22 08:52	05/26/22 11:45	1,7470A	DMB

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 05 Batch: WG1643889-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	05/27/22 15:58	05/27/22 20:15	1,7470A	AW

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 05/07/22 01:26

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2223664

Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04 Batch: WG1640713-2 SRM Lot Number: D113-540								
Aluminum, Total	83		-		51-149	-		
Antimony, Total	146		-		20-250	-		
Arsenic, Total	99		-		70-130	-		
Barium, Total	93		-		75-125	-		
Beryllium, Total	87		-		75-125	-		
Cadmium, Total	93		-		75-125	-		
Calcium, Total	93		-		73-128	-		
Chromium, Total	92		-		70-130	-		
Cobalt, Total	95		-		75-125	-		
Copper, Total	94		-		75-125	-		
Iron, Total	106		-		36-164	-		
Lead, Total	92		-		72-128	-		
Magnesium, Total	86		-		63-138	-		
Manganese, Total	93		-		77-123	-		
Nickel, Total	92		-		70-130	-		
Potassium, Total	88		-		59-141	-		
Selenium, Total	93		-		66-134	-		
Silver, Total	90		-		70-131	-		
Sodium, Total	86		-		35-164	-		
Thallium, Total	94		-		70-130	-		
Vanadium, Total	92		-		74-126	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2223664

Report Date: 06/06/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04 Batch: WG1640713-2 SRM Lot Number: D113-540					
Zinc, Total	93	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 02,04 Batch: WG1640717-2 SRM Lot Number: D113-540					
Mercury, Total	87	-	60-140	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05 Batch: WG1642860-2					
Arsenic, TCLP	103	-	75-125	-	20
Barium, TCLP	98	-	75-125	-	20
Cadmium, TCLP	100	-	75-125	-	20
Chromium, TCLP	102	-	75-125	-	20
Lead, TCLP	97	-	75-125	-	20
Selenium, TCLP	102	-	75-125	-	20
Silver, TCLP	97	-	75-125	-	20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2223664

Report Date: 06/06/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06 Batch: WG1642955-2					
Aluminum, Total	100	-	80-120	-	
Antimony, Total	99	-	80-120	-	
Arsenic, Total	110	-	80-120	-	
Barium, Total	100	-	80-120	-	
Beryllium, Total	104	-	80-120	-	
Cadmium, Total	103	-	80-120	-	
Calcium, Total	103	-	80-120	-	
Chromium, Total	101	-	80-120	-	
Cobalt, Total	95	-	80-120	-	
Copper, Total	100	-	80-120	-	
Iron, Total	102	-	80-120	-	
Lead, Total	98	-	80-120	-	
Magnesium, Total	102	-	80-120	-	
Manganese, Total	100	-	80-120	-	
Nickel, Total	98	-	80-120	-	
Potassium, Total	102	-	80-120	-	
Selenium, Total	102	-	80-120	-	
Silver, Total	100	-	80-120	-	
Sodium, Total	106	-	80-120	-	
Thallium, Total	100	-	80-120	-	
Vanadium, Total	102	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2223664

Report Date: 06/06/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06 Batch: WG1642955-2					
Zinc, Total	99	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 06 Batch: WG1642956-2					
Mercury, Total	105	-	80-120	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05 Batch: WG1643889-2					
Mercury, TCLP	91	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

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): 02,04 QC Batch ID: WG1640713-3 WG1640713-4 QC Sample: L2223782-06 Client ID: MS Sample												
Aluminum, Total	9990	159	10800	**509**	Q	10900	**576**	Q	75-125	1		20
Antimony, Total	ND	39.8	23.3	**58**	Q	23.1	**58**	Q	75-125	1		20
Arsenic, Total	1.05	9.55	8.26	75		8.12	75		75-125	2		20
Barium, Total	188	159	270	**52**	Q	285	**61**	Q	75-125	5		20
Beryllium, Total	0.148J	3.98	2.64	**66**	Q	2.60	**66**	Q	75-125	2		20
Cadmium, Total	0.919	4.22	3.55	**62**	Q	3.60	**64**	Q	75-125	1		20
Calcium, Total	35500	796	37000	**188**	Q	38900	**431**	Q	75-125	5		20
Chromium, Total	6.81	15.9	17.2	**65**	Q	18.7	75		75-125	8		20
Cobalt, Total	10.2	39.8	32.6	**56**	Q	32.2	**56**	Q	75-125	1		20
Copper, Total	120	19.9	135	75		156	**182**	Q	75-125	14		20
Iron, Total	11700	79.6	12100	**502**	Q	12300	**760**	Q	75-125	2		20
Lead, Total	391	42.2	39.3	**0**	Q	39.7	**0**	Q	75-125	1		20
Magnesium, Total	3120	796	3690	**72**	Q	3700	**73**	Q	75-125	0		20
Manganese, Total	126	39.8	158	80		159	84		75-125	1		20
Nickel, Total	106	39.8	38.1	**0**	Q	38.9	**0**	Q	75-125	2		20
Potassium, Total	2230	796	2900	84		2980	95		75-125	3		20
Selenium, Total	ND	9.55	5.82	**61**	Q	5.55	**58**	Q	75-125	5		20
Silver, Total	ND	23.9	16.8	**70**	Q	17.0	**72**	Q	75-125	1		20
Sodium, Total	2080	796	2810	92		2820	94		75-125	0		20
Thallium, Total	ND	9.55	4.82	**50**	Q	4.72	**50**	Q	75-125	2		20
Vanadium, Total	47.5	39.8	75.1	**69**	Q	74.6	**69**	Q	75-125	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

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): 02,04 QC Batch ID: WG1640713-3 WG1640713-4 QC Sample: L2223782-06 Client ID: MS Sample											
Zinc, Total	143	39.8	189	116		206	**160**	Q	75-125	9	20
Total Metals - Mansfield Lab Associated sample(s): 02,04 QC Batch ID: WG1640717-3 WG1640717-4 QC Sample: L2223782-06 Client ID: MS Sample											
Mercury, Total	16.5	0.13	15.1	**0**	Q	16.6	**77**	Q	80-120	9	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1642860-3 QC Sample: L2223664-05 Client ID: COMP(SB-02,SB-03)											
Arsenic, TCLP	ND	1.2	1.21	101		-	-		75-125	-	20
Barium, TCLP	0.429J	20	19.6	98		-	-		75-125	-	20
Cadmium, TCLP	ND	0.53	0.522	98		-	-		75-125	-	20
Chromium, TCLP	ND	2	2.04	102		-	-		75-125	-	20
Lead, TCLP	0.041J	5.3	5.12	97		-	-		75-125	-	20
Selenium, TCLP	ND	1.2	1.22	102		-	-		75-125	-	20
Silver, TCLP	ND	0.5	0.486	97		-	-		75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

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): 06 QC Batch ID: WG1642955-3 QC Sample: L2223664-06 Client ID: FIELD BLANK-SOIL									
Aluminum, Total	ND	2	1.96	98	-	-	75-125	-	20
Antimony, Total	ND	0.5	0.488	98	-	-	75-125	-	20
Arsenic, Total	0.002J	0.12	0.131	109	-	-	75-125	-	20
Barium, Total	ND	2	1.95	98	-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.051	101	-	-	75-125	-	20
Cadmium, Total	ND	0.053	0.054	101	-	-	75-125	-	20
Calcium, Total	0.042J	10	10.0	100	-	-	75-125	-	20
Chromium, Total	ND	0.2	0.198	99	-	-	75-125	-	20
Cobalt, Total	ND	0.5	0.463	93	-	-	75-125	-	20
Copper, Total	ND	0.25	0.245	98	-	-	75-125	-	20
Iron, Total	0.011J	1	0.998	100	-	-	75-125	-	20
Lead, Total	ND	0.53	0.512	97	-	-	75-125	-	20
Magnesium, Total	ND	10	9.93	99	-	-	75-125	-	20
Manganese, Total	ND	0.5	0.491	98	-	-	75-125	-	20
Nickel, Total	ND	0.5	0.482	96	-	-	75-125	-	20
Potassium, Total	ND	10	9.98	100	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.124	103	-	-	75-125	-	20
Silver, Total	ND	0.05	0.050	99	-	-	75-125	-	20
Sodium, Total	ND	10	10.3	103	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.118	98	-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.501	100	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

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): 06 QC Batch ID: WG1642955-3 QC Sample: L2223664-06 Client ID: FIELD BLANK-SOIL									
Zinc, Total	ND	0.5	0.488	98	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1642956-3 QC Sample: L2223664-06 Client ID: FIELD BLANK-SOIL									
Mercury, Total	ND	0.01	0.00949	95	-	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1643889-3 QC Sample: L2223664-05 Client ID: COMP(SB-02,SB-03)									
Mercury, TCLP	ND	0.025	0.0246	98	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1642860-4 QC Sample: L2223664-05 Client ID: COMP(SB-02,SB-03)						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Barium, TCLP	0.429J	0.430J	mg/l	NC		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	0.041J	0.029J	mg/l	NC		20
Selenium, TCLP	ND	0.049J	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1642955-4 QC Sample: L2223664-06 Client ID: FIELD BLANK-SOIL					
Aluminum, Total	ND	ND	mg/l	NC	20
Antimony, Total	ND	ND	mg/l	NC	20
Arsenic, Total	0.002J	0.002J	mg/l	NC	20
Barium, Total	ND	ND	mg/l	NC	20
Beryllium, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Calcium, Total	0.042J	0.036J	mg/l	NC	20
Chromium, Total	ND	ND	mg/l	NC	20
Cobalt, Total	ND	ND	mg/l	NC	20
Copper, Total	ND	ND	mg/l	NC	20
Iron, Total	0.011J	0.011J	mg/l	NC	20
Lead, Total	ND	ND	mg/l	NC	20
Magnesium, Total	ND	ND	mg/l	NC	20
Manganese, Total	ND	ND	mg/l	NC	20
Nickel, Total	ND	ND	mg/l	NC	20
Potassium, Total	ND	ND	mg/l	NC	20
Selenium, Total	ND	ND	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Sodium, Total	ND	ND	mg/l	NC	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1642955-4 QC Sample: L2223664-06 Client ID: FIELD BLANK-SOIL					
Thallium, Total	ND	ND	mg/l	NC	20
Vanadium, Total	ND	ND	mg/l	NC	20
Zinc, Total	ND	ND	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1642956-4 QC Sample: L2223664-06 Client ID: FIELD BLANK-SOIL					
Mercury, Total	ND	ND	mg/l	NC	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1643889-4 QC Sample: L2223664-05 Client ID: COMP(SB-02,SB-03)					
Mercury, TCLP	ND	ND	mg/l	NC	20

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2223664
Report Date: 06/06/22

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04 QC Batch ID: WG1640713-6 QC Sample: L2223782-06 Client ID: DUP Sample						
Barium, Total	188	279	mg/kg	**48**	Q	20
Lead, Total	391	584	mg/kg	**49**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-05
Client ID: COMP(SB-02,SB-03)
Sample Location: MANHATTAN, NY
Date Collected: 05/05/22 13:00
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Dry Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	05/14/22 14:33	1,1030	PA

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-01
Client ID: SB-02(0-2)
Sample Location: MANHATTAN, NY

Date Collected: 05/05/22 10:50
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.2		%	0.100	NA	1	-	05/06/22 17:33	121,2540G	TR

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-02
Client ID: COMP SB-02(0-4.5)
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/05/22 10:55
Date Received: 05/05/22
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	88.8		%	0.100	NA	1	-	05/11/22 09:38	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	05/17/22 18:20	05/18/22 11:30	1,9010C/9012B	CS
Chromium, Hexavalent	0.788	J	mg/kg	0.901	0.180	1	05/07/22 14:16	05/08/22 14:30	1,7196A	NL

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-03
Client ID: SB-03(0-2)
Sample Location: MANHATTAN, NY

Date Collected: 05/05/22 12:40
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.1		%	0.100	NA	1	-	05/06/22 17:33	121,2540G	TR

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-04
Client ID: COMP SB-03(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/05/22 12:50
Date Received: 05/05/22
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	89.9		%	0.100	NA	1	-	05/11/22 09:38	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/17/22 18:20	05/18/22 11:33	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.890	0.178	1	05/07/22 14:16	05/08/22 14:30	1,7196A	NL

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-05
Client ID: COMP(SB-02,SB-03)
Sample Location: MANHATTAN, NY

Date Collected: 05/05/22 13:00
Date Received: 05/05/22
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	90.6		%	0.100	NA	1	-	05/11/22 09:38	121,2540G	RI
pH (H)	10.7		SU	-	NA	1	-	05/09/22 22:43	1,9045D	AS
Cyanide, Reactive	ND		mg/kg	10	10.	1	05/18/22 11:40	05/18/22 13:51	125,7.3	MJ
Sulfide, Reactive	ND		mg/kg	10	10.	1	05/18/22 11:40	05/18/22 13:13	125,7.3	MJ

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

SAMPLE RESULTS

Lab ID: L2223664-06
Client ID: FIELD BLANK-SOIL
Sample Location: MANHATTAN, NY

Date Collected: 05/05/22 13:45
Date Received: 05/05/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/18/22 13:45	05/19/22 09:44	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/06/22 08:50	05/06/22 09:06	1,7196A	KA

Project Name: BATTERY PARK
Project Number: 20-1152
Lab Number: L2223664
Report Date: 06/06/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 06 Batch: WG1635305-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/06/22 08:50	05/06/22 09:03	1,7196A	KA
General Chemistry - Westborough Lab for sample(s): 02,04 Batch: WG1635745-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	05/07/22 14:16	05/08/22 14:30	1,7196A	NL
General Chemistry - Westborough Lab for sample(s): 02,04 Batch: WG1639572-1										
Cyanide, Total	ND		mg/kg	0.92	0.20	1	05/17/22 18:20	05/18/22 11:10	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 05 Batch: WG1639871-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	05/18/22 11:40	05/18/22 13:11	125,7.3	MJ
General Chemistry - Westborough Lab for sample(s): 05 Batch: WG1639876-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	05/18/22 11:40	05/18/22 13:49	125,7.3	MJ
General Chemistry - Westborough Lab for sample(s): 06 Batch: WG1639910-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/18/22 13:45	05/19/22 09:18	1,9010C/9012B	CS

Lab Control Sample Analysis

Batch Quality Control

Project Name: BATTERY PARK

Project Number: 20-1152

Lab Number: L2223664

Report Date: 06/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06 Batch: WG1635305-2								
Chromium, Hexavalent	102		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 02,04 Batch: WG1635745-2								
Chromium, Hexavalent	95		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 05 Batch: WG1636389-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 02,04 Batch: WG1639572-2 WG1639572-3								
Cyanide, Total	**65**	Q	**70**	Q	80-120	7		35
General Chemistry - Westborough Lab Associated sample(s): 05 Batch: WG1639871-2								
Sulfide, Reactive	113		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 05 Batch: WG1639876-2								
Cyanide, Reactive	84		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 06 Batch: WG1639910-2 WG1639910-3								
Cyanide, Total	95		91		85-115	4		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06 QC Batch ID: WG1635305-4 QC Sample: L2223664-06 Client ID: FIELD BLANK-SOIL												
Chromium, Hexavalent	ND	0.1	0.103	103		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 02,04 QC Batch ID: WG1635745-4 QC Sample: L2223664-04 Client ID: COMP SB-03(0-5)												
Chromium, Hexavalent	ND	905	945	104		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 02,04 QC Batch ID: WG1639572-4 WG1639572-5 QC Sample: L2223664-02 Client ID: COMP SB-02(0-4.5)												
Cyanide, Total	ND	11	11	98		9.8	94		75-125	12		35
General Chemistry - Westborough Lab Associated sample(s): 06 QC Batch ID: WG1639910-4 WG1639910-5 QC Sample: L2223759-02 Client ID: MS Sample												
Cyanide, Total	0.012	0.2	0.200	94		0.198	93		80-120	1		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06 QC Batch ID: WG1635305-3 QC Sample: L2223664-06 Client ID: FIELD BLANK-SOIL						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1635553-1 QC Sample: L2223632-01 Client ID: DUP Sample						
Solids, Total	85.6	85.6	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 02,04 QC Batch ID: WG1635745-6 QC Sample: L2223664-04 Client ID: COMP SB-03(0-5)						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1636389-2 QC Sample: L2224188-01 Client ID: DUP Sample						
pH	7.7	7.8	SU	1		5
General Chemistry - Westborough Lab Associated sample(s): 02,04-05 QC Batch ID: WG1637013-1 QC Sample: L2223720-01 Client ID: DUP Sample						
Solids, Total	24.0	23.6	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1639871-3 QC Sample: L2223953-01 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1639876-3 QC Sample: L2223953-01 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2223664-01A	Vial MeOH preserved	A	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L2223664-01B	Vial water preserved	A	NA		5.0	Y	Absent	06-MAY-22 06:05	NYTCL-8260HLW(14)
L2223664-01C	Vial water preserved	A	NA		5.0	Y	Absent	06-MAY-22 06:05	NYTCL-8260HLW(14)
L2223664-01D	Plastic 2oz unpreserved for TS	A	NA		5.0	Y	Absent		TS(7)
L2223664-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MN-TI(180),MG-TI(180),FE-TI(180),HG-T(28),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2223664-02B	Glass 120ml/4oz unpreserved	A	NA		5.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2223664-02C	Glass 500ml/16oz unpreserved	A	NA		5.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2223664-03A	Vial MeOH preserved	A	NA		5.0	Y	Absent		NYTCL-8260HLW(14)
L2223664-03B	Vial water preserved	A	NA		5.0	Y	Absent	06-MAY-22 06:05	NYTCL-8260HLW(14)
L2223664-03C	Vial water preserved	A	NA		5.0	Y	Absent	06-MAY-22 06:05	NYTCL-8260HLW(14)
L2223664-03D	Plastic 2oz unpreserved for TS	A	NA		5.0	Y	Absent		TS(7)
L2223664-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),SB-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),MN-TI(180),HG-T(28),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)
L2223664-04B	Glass 120ml/4oz unpreserved	A	NA		5.0	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2223664-04C	Glass 500ml/16oz unpreserved	A	NA		5.0	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: BATTERY PARK
Project Number: 20-1152

Lab Number: L2223664
Report Date: 06/06/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2223664-05A	Glass 500ml/16oz unpreserved	A	NA		5.0	Y	Absent		IGNIT-1030(14),REACTS(14),TS(7),PH-9045(1),REACTCN(14)
L2223664-05W	Plastic 120ml HNO3 preserved Extracts	A	NA		5.0	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2223664-05X9	Tumble Vessel	A	NA		5.0	Y	Absent		-
L2223664-06A	Vial HCl preserved	A	NA		5.0	Y	Absent		NYTCL-8260(14)
L2223664-06B	Vial HCl preserved	A	NA		5.0	Y	Absent		NYTCL-8260(14)
L2223664-06C	Vial HCl preserved	A	NA		5.0	Y	Absent		NYTCL-8260(14)
L2223664-06D	Amber 120ml unpreserved	A	7	7	5.0	Y	Absent		NYTCL-8082-LVI(365)
L2223664-06E	Amber 120ml unpreserved	A	7	7	5.0	Y	Absent		NYTCL-8082-LVI(365)
L2223664-06F	Amber 120ml unpreserved	A	7	7	5.0	Y	Absent		NYTCL-8081(7)
L2223664-06G	Amber 120ml unpreserved	A	7	7	5.0	Y	Absent		NYTCL-8081(7)
L2223664-06H	Plastic 250ml unpreserved	A	7	7	5.0	Y	Absent		HEXCR-7196(1)
L2223664-06I	Plastic 250ml unpreserved	A	7	7	5.0	Y	Absent		HEXCR-7196(1)
L2223664-06J	Plastic 250ml HNO3 preserved	A	<2	<2	5.0	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),CU-TI(180),V-TI(180),CO-TI(180),HG-T(28),FE-TI(180),MN-TI(180),MG-TI(180),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2223664-06K	Plastic 250ml NaOH preserved	A	>12	>12	5.0	Y	Absent		TCN-9010(14)
L2223664-06L	Amber 250ml unpreserved	A	7	7	5.0	Y	Absent		NYTCL-8270-LVI(7)
L2223664-06M	Amber 250ml unpreserved	A	7	7	5.0	Y	Absent		NYTCL-8270-LVI(7)
L2223664-06N	Amber 1000ml unpreserved	A	7	7	5.0	Y	Absent		HERB-APA(7)
L2223664-06O	Amber 1000ml unpreserved	A	7	7	5.0	Y	Absent		HERB-APA(7)

*Values in parentheses indicate holding time in days

Project Name:	BATTERY PARK	**Lab Number:**	L2223664
Project Number:	20-1152	**Report Date:**	06/06/22

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:	BATTERY PARK	**Lab Number:**	L2223664
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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. 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.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	BATTERY PARK	**Lab Number:**	L2223664
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Data Qualifiers

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:	BATTERY PARK	**Lab Number:**	L2223664
Project Number:	20-1152	**Report Date:**	06/06/22

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.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

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 1

Date Rec'd in Lab: 5/5/22

ALPHA Job #: L2223664

Client Information

Client: Matrix
Address: 333 W. 39th St. NY, NY
Phone:
Fax:
Email: bcrespi@mnwe.com

Project Information

Project Name: 20-1152 Battery Park
Project Location: Manhattan, NY
Project #: 20-1152
(Use Project name as Project #) ☐
Project Manager: Brian Crespi
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

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	TCL VOCs 8260	TCL SVOCs 8270	TCL PCBs	TCL Pesticides	TCL Herbicides	TAL Metals	Hexavalent chromium Cyanide	TCLP Metals + RCRA characteristics	Sample Specific Comments	Total Bottle
23664-01	SB-02 (0-2)	5/5/22	1050	S	E.W.	✓									
02	COMP SB-02 (0-4.5)		1055	S	E.W.		✓	✓	✓	✓	✓	✓			
03	SB-03 (0-2)		1210	S	E.W.	✓									
04	COMP SB-03 (0-5)		1250	S	E.W.		✓	✓	✓	✓	✓	✓			
05	COMP (SB-02, SB-03)		1300	S	E.W.								✓		
06	Field Blank-Soil		1345		E.W.	✓	✓	✓	✓	✓	✓	✓			

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

Container Type								
Preservative								

Relinquished By:	Date/Time	Received By:	Date/Time
	1600 5/5/22		5/5/22 14:00
	5/5/22 18:30		5/5 1930
	5/5		5/5 2130
	5/5 2330		5/5/22 2330

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)

ANALYTICAL REPORT

Lab Number:	L2224019
Client:	Matrix New World Engineering, Inc. 333 West 39th Street, Second Floor New York City, NY 10018
ATTN:	Brian Crespi
Phone:	(212) 324-4251
Project Name:	20-1152 BATTERY PARK
Project Number:	20-1152
Report Date:	06/02/22

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

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

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224019
Report Date: 06/02/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2224019-01	SB-04(0-2)	SOIL	MANHATTAN, NY	05/06/22 09:30	05/06/22
L2224019-02	COMP SB-04(0-4)	SOIL	MANHATTAN, NY	05/06/22 09:35	05/06/22
L2224019-03	SB-05(0-2)	SOIL	MANHATTAN, NY	05/06/22 11:45	05/06/22
L2224019-04	COMP SB-05(0-5)	SOIL	MANHATTAN, NY	05/06/22 11:50	05/06/22
L2224019-05	COMP (SB-04,SB-05)	SOIL	MANHATTAN, NY	05/06/22 11:55	05/06/22
L2224019-06	SB-08(0-2)	SOIL	MANHATTAN, NY	05/06/22 12:30	05/06/22
L2224019-07	COMP SB-08(0-5)	SOIL	MANHATTAN, NY	05/06/22 12:40	05/06/22
L2224019-08	COMP (SB-08)	SOIL	MANHATTAN, NY	05/06/22 12:45	05/06/22

Project Name:	20-1152 BATTERY PARK	**Lab Number:**	L2224019
Project Number:	20-1152	**Report Date:**	06/02/22

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:	20-1152 BATTERY PARK	**Lab Number:**	L2224019
Project Number:	20-1152	**Report Date:**	06/02/22

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.

PCBs

L2224019-02: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

Pesticides

L2224019-02D, -04D, and -07D: The sample has elevated detection limits due to the dilution required by the sample matrix.

Total Metals

L2224019-02, -04, and -07: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

Cyanide, Total

The WG1640075-2 LCS recovery for cyanide, total (61%), associated with L2224019-02, -04, and -07, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported. The WG1640075-2/-3 LCS/LCSD RPD is above the acceptance criteria for cyanide, total (63%).

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: Cristin Walker

Title: Technical Director/Representative Date: 06/02/22

ORGANICS

VOLATILES

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-01
Client ID: SB-04(0-2)
Sample Location: MANHATTAN, NY
Date Collected: 05/06/22 09:30
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/13/22 11:15
Analyst: LAC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.2	1.9	1
1,1-Dichloroethane	ND		ug/kg	0.85	0.12	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.85	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.85	0.11	1
Dibromochloromethane	ND		ug/kg	0.85	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.85	0.23	1
Tetrachloroethene	ND		ug/kg	0.42	0.17	1
Chlorobenzene	ND		ug/kg	0.42	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.4	0.59	1
1,2-Dichloroethane	ND		ug/kg	0.85	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.42	0.14	1
Bromodichloromethane	ND		ug/kg	0.42	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.85	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	0.42	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	0.42	0.13	1
1,1-Dichloropropene	ND		ug/kg	0.42	0.14	1
Bromoform	ND		ug/kg	3.4	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.42	0.14	1
Benzene	1.0		ug/kg	0.42	0.14	1
Toluene	ND		ug/kg	0.85	0.46	1
Ethylbenzene	ND		ug/kg	0.85	0.12	1
Chloromethane	ND		ug/kg	3.4	0.79	1
Bromomethane	ND		ug/kg	1.7	0.49	1
Vinyl chloride	ND		ug/kg	0.85	0.28	1
Chloroethane	ND		ug/kg	1.7	0.38	1
1,1-Dichloroethene	ND		ug/kg	0.85	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224019

Project Number: 20-1152 **Report Date:** 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-01 Date Collected: 05/06/22 09:30

Client ID: SB-04(0-2) Date Received: 05/06/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.42	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.17	1
p/m-Xylene	ND		ug/kg	1.7	0.48	1
o-Xylene	ND		ug/kg	0.85	0.25	1
Xylenes, Total	ND		ug/kg	0.85	0.25	1
cis-1,2-Dichloroethene	ND		ug/kg	0.85	0.15	1
1,2-Dichloroethene, Total	ND		ug/kg	0.85	0.12	1
Dibromomethane	ND		ug/kg	1.7	0.20	1
Styrene	ND		ug/kg	0.85	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.5	0.78	1
Acetone	11		ug/kg	8.5	4.1	1
Carbon disulfide	ND		ug/kg	8.5	3.9	1
2-Butanone	ND		ug/kg	8.5	1.9	1
Vinyl acetate	ND		ug/kg	8.5	1.8	1
4-Methyl-2-pentanone	ND		ug/kg	8.5	1.1	1
1,2,3-Trichloropropane	ND		ug/kg	1.7	0.11	1
2-Hexanone	ND		ug/kg	8.5	1.0	1
Bromochloromethane	ND		ug/kg	1.7	0.17	1
2,2-Dichloropropane	ND		ug/kg	1.7	0.17	1
1,2-Dibromoethane	ND		ug/kg	0.85	0.24	1
1,3-Dichloropropane	ND		ug/kg	1.7	0.14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.42	0.11	1
Bromobenzene	ND		ug/kg	1.7	0.12	1
n-Butylbenzene	ND		ug/kg	0.85	0.14	1
sec-Butylbenzene	ND		ug/kg	0.85	0.12	1
tert-Butylbenzene	ND		ug/kg	1.7	0.10	1
o-Chlorotoluene	ND		ug/kg	1.7	0.16	1
p-Chlorotoluene	ND		ug/kg	1.7	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.85	1
Hexachlorobutadiene	ND		ug/kg	3.4	0.14	1
Isopropylbenzene	ND		ug/kg	0.85	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.85	0.09	1
Naphthalene	ND		ug/kg	3.4	0.55	1
Acrylonitrile	ND		ug/kg	3.4	0.98	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224019

Project Number: 20-1152 **Report Date:** 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-01 Date Collected: 05/06/22 09:30

Client ID: SB-04(0-2) Date Received: 05/06/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.85	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	0.28	1
1,4-Dioxane	ND		ug/kg	68	30.	1
p-Diethylbenzene	0.17	J	ug/kg	1.7	0.15	1
p-Ethyltoluene	ND		ug/kg	1.7	0.33	1
1,2,4,5-Tetramethylbenzene	0.16	J	ug/kg	1.7	0.16	1
Ethyl ether	ND		ug/kg	1.7	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.2	1.2	1
Tentatively Identified Compounds						
Total TIC Compounds	11.6	J	ug/kg			1
Unknown Aromatic	2.30	J	ug/kg			1
Unknown	2.24	J	ug/kg			1
Norflurane	5.15	NJ	ug/kg			1
Unknown Aromatic	1.87	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	87		70-130

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-03
Client ID: SB-05(0-2)
Sample Location: MANHATTAN, NY
Date Collected: 05/06/22 11:45
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/11/22 20:42
Analyst: JC
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	2.4	1.1	1
1,1-Dichloroethane	ND		ug/kg	0.48	0.07	1
Chloroform	ND		ug/kg	0.72	0.07	1
Carbon tetrachloride	ND		ug/kg	0.48	0.11	1
1,2-Dichloropropane	ND		ug/kg	0.48	0.06	1
Dibromochloromethane	ND		ug/kg	0.48	0.07	1
1,1,2-Trichloroethane	ND		ug/kg	0.48	0.13	1
Tetrachloroethene	0.11	J	ug/kg	0.24	0.09	1
Chlorobenzene	ND		ug/kg	0.24	0.06	1
Trichlorofluoromethane	ND		ug/kg	1.9	0.33	1
1,2-Dichloroethane	ND		ug/kg	0.48	0.12	1
1,1,1-Trichloroethane	ND		ug/kg	0.24	0.08	1
Bromodichloromethane	ND		ug/kg	0.24	0.05	1
trans-1,3-Dichloropropene	ND		ug/kg	0.48	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	0.24	0.08	1
1,3-Dichloropropene, Total	ND		ug/kg	0.24	0.08	1
1,1-Dichloropropene	ND		ug/kg	0.24	0.08	1
Bromoform	ND		ug/kg	1.9	0.12	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.24	0.08	1
Benzene	ND		ug/kg	0.24	0.08	1
Toluene	ND		ug/kg	0.48	0.26	1
Ethylbenzene	ND		ug/kg	0.48	0.07	1
Chloromethane	ND		ug/kg	1.9	0.45	1
Bromomethane	ND		ug/kg	0.96	0.28	1
Vinyl chloride	ND		ug/kg	0.48	0.16	1
Chloroethane	ND		ug/kg	0.96	0.22	1
1,1-Dichloroethene	ND		ug/kg	0.48	0.11	1
trans-1,2-Dichloroethene	ND		ug/kg	0.72	0.07	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224019

Project Number: 20-1152 **Report Date:** 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-03 Date Collected: 05/06/22 11:45

Client ID: SB-05(0-2) Date Received: 05/06/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.24	0.07	1
1,2-Dichlorobenzene	ND		ug/kg	0.96	0.07	1
1,3-Dichlorobenzene	ND		ug/kg	0.96	0.07	1
1,4-Dichlorobenzene	ND		ug/kg	0.96	0.08	1
Methyl tert butyl ether	ND		ug/kg	0.96	0.10	1
p/m-Xylene	ND		ug/kg	0.96	0.27	1
o-Xylene	ND		ug/kg	0.48	0.14	1
Xylenes, Total	ND		ug/kg	0.48	0.14	1
cis-1,2-Dichloroethene	ND		ug/kg	0.48	0.08	1
1,2-Dichloroethene, Total	ND		ug/kg	0.48	0.07	1
Dibromomethane	ND		ug/kg	0.96	0.11	1
Styrene	ND		ug/kg	0.48	0.09	1
Dichlorodifluoromethane	ND		ug/kg	4.8	0.44	1
Acetone	2.6	J	ug/kg	4.8	2.3	1
Carbon disulfide	ND		ug/kg	4.8	2.2	1
2-Butanone	ND		ug/kg	4.8	1.1	1
Vinyl acetate	ND		ug/kg	4.8	1.0	1
4-Methyl-2-pentanone	ND		ug/kg	4.8	0.61	1
1,2,3-Trichloropropane	ND		ug/kg	0.96	0.06	1
2-Hexanone	ND		ug/kg	4.8	0.57	1
Bromochloromethane	ND		ug/kg	0.96	0.10	1
2,2-Dichloropropane	ND		ug/kg	0.96	0.10	1
1,2-Dibromoethane	ND		ug/kg	0.48	0.13	1
1,3-Dichloropropane	ND		ug/kg	0.96	0.08	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.24	0.06	1
Bromobenzene	ND		ug/kg	0.96	0.07	1
n-Butylbenzene	ND		ug/kg	0.48	0.08	1
sec-Butylbenzene	ND		ug/kg	0.48	0.07	1
tert-Butylbenzene	ND		ug/kg	0.96	0.06	1
o-Chlorotoluene	ND		ug/kg	0.96	0.09	1
p-Chlorotoluene	ND		ug/kg	0.96	0.05	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.4	0.48	1
Hexachlorobutadiene	ND		ug/kg	1.9	0.08	1
Isopropylbenzene	ND		ug/kg	0.48	0.05	1
p-Isopropyltoluene	ND		ug/kg	0.48	0.05	1
Naphthalene	ND		ug/kg	1.9	0.31	1
Acrylonitrile	ND		ug/kg	1.9	0.55	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224019

Project Number: 20-1152 **Report Date:** 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-03 Date Collected: 05/06/22 11:45

Client ID: SB-05(0-2) Date Received: 05/06/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.48	0.08	1
1,2,3-Trichlorobenzene	ND		ug/kg	0.96	0.15	1
1,2,4-Trichlorobenzene	ND		ug/kg	0.96	0.13	1
1,3,5-Trimethylbenzene	ND		ug/kg	0.96	0.09	1
1,2,4-Trimethylbenzene	ND		ug/kg	0.96	0.16	1
1,4-Dioxane	ND		ug/kg	38	17.	1
p-Diethylbenzene	ND		ug/kg	0.96	0.09	1
p-Ethyltoluene	ND		ug/kg	0.96	0.18	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	0.96	0.09	1
Ethyl ether	ND		ug/kg	0.96	0.16	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	2.4	0.68	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	103		70-130

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-06
Client ID: SB-08(0-2)
Sample Location: MANHATTAN, NY
Date Collected: 05/06/22 12:30
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/11/22 21:02
Analyst: JC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.98	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.98	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.98	0.12	1
Dibromochloromethane	ND		ug/kg	0.98	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.98	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.98	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.98	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.49	0.16	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.98	0.53	1
Ethylbenzene	ND		ug/kg	0.98	0.14	1
Chloromethane	ND		ug/kg	3.9	0.91	1
Bromomethane	ND		ug/kg	2.0	0.57	1
Vinyl chloride	ND		ug/kg	0.98	0.33	1
Chloroethane	ND		ug/kg	2.0	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.98	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.13	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224019

Project Number: 20-1152 **Report Date:** 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-06 Date Collected: 05/06/22 12:30

Client ID: SB-08(0-2) Date Received: 05/06/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.14	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	0.55	1
o-Xylene	ND		ug/kg	0.98	0.28	1
Xylenes, Total	ND		ug/kg	0.98	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.98	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.98	0.13	1
Dibromomethane	ND		ug/kg	2.0	0.23	1
Styrene	ND		ug/kg	0.98	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.8	0.89	1
Acetone	ND		ug/kg	9.8	4.7	1
Carbon disulfide	ND		ug/kg	9.8	4.4	1
2-Butanone	ND		ug/kg	9.8	2.2	1
Vinyl acetate	ND		ug/kg	9.8	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.8	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.12	1
2-Hexanone	ND		ug/kg	9.8	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.98	0.27	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	0.98	0.16	1
sec-Butylbenzene	ND		ug/kg	0.98	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.97	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	ND		ug/kg	0.98	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.98	0.11	1
Naphthalene	2.7	J	ug/kg	3.9	0.63	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224019
Project Number: 20-1152
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-06
Client ID: SB-08(0-2)
Sample Location: MANHATTAN, NY
Date Collected: 05/06/22 12:30
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.98	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.32	1
1,4-Dioxane	ND		ug/kg	78	34.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.17	1
p-Ethyltoluene	ND		ug/kg	2.0	0.37	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	1.4	1
Tentatively Identified Compounds						
Total TIC Compounds	6.70	J	ug/kg			1
Unknown	6.70	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	120		70-130
Dibromofluoromethane	97		70-130

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/11/22 18:46
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03,06 Batch: WG1636599-12					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/11/22 18:46
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03,06 Batch: WG1636599-12					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/11/22 18:46
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03,06 Batch: WG1636599-12					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Tentatively Identified Compounds			
Total TIC Compounds	6.41	J	ug/kg
Unknown	6.41	J	ug/kg

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/11/22 18:46
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03,06 Batch: WG1636599-12					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	97		70-130

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/13/22 09:00
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1638946-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/13/22 09:00
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1638946-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/13/22 09:00
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1638946-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Tentatively Identified Compounds			
Total TIC Compounds	2.95	J	ug/kg
Unknown	2.95	J	ug/kg

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/13/22 09:00
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1638946-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224019

Report Date: 06/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03,06 Batch: WG1636599-10 WG1636599-11								
Methylene chloride	97		97		70-130	0		30
1,1-Dichloroethane	94		92		70-130	2		30
Chloroform	91		91		70-130	0		30
Carbon tetrachloride	92		90		70-130	2		30
1,2-Dichloropropane	97		99		70-130	2		30
Dibromochloromethane	88		91		70-130	3		30
1,1,2-Trichloroethane	98		102		70-130	4		30
Tetrachloroethene	103		97		70-130	6		30
Chlorobenzene	96		93		70-130	3		30
Trichlorofluoromethane	92		88		70-139	4		30
1,2-Dichloroethane	85		87		70-130	2		30
1,1,1-Trichloroethane	95		94		70-130	1		30
Bromodichloromethane	92		95		70-130	3		30
trans-1,3-Dichloropropene	86		89		70-130	3		30
cis-1,3-Dichloropropene	88		91		70-130	3		30
1,1-Dichloropropene	98		96		70-130	2		30
Bromoform	88		95		70-130	8		30
1,1,2,2-Tetrachloroethane	90		95		70-130	5		30
Benzene	96		94		70-130	2		30
Toluene	94		92		70-130	2		30
Ethylbenzene	96		93		70-130	3		30
Chloromethane	91		88		52-130	3		30
Bromomethane	115		106		57-147	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224019

Report Date: 06/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03,06 Batch: WG1636599-10 WG1636599-11								
Vinyl chloride	95		91		67-130	4		30
Chloroethane	95		93		50-151	2		30
1,1-Dichloroethene	96		93		65-135	3		30
trans-1,2-Dichloroethene	95		94		70-130	1		30
Trichloroethene	95		96		70-130	1		30
1,2-Dichlorobenzene	100		98		70-130	2		30
1,3-Dichlorobenzene	100		98		70-130	2		30
1,4-Dichlorobenzene	100		97		70-130	3		30
Methyl tert butyl ether	93		98		66-130	5		30
p/m-Xylene	100		97		70-130	3		30
o-Xylene	100		98		70-130	2		30
cis-1,2-Dichloroethene	94		93		70-130	1		30
Dibromomethane	88		94		70-130	7		30
Styrene	103		101		70-130	2		30
Dichlorodifluoromethane	82		82		30-146	0		30
Acetone	78		76		54-140	3		30
Carbon disulfide	93		93		59-130	0		30
2-Butanone	77		82		70-130	6		30
Vinyl acetate	89		95		70-130	7		30
4-Methyl-2-pentanone	87		97		70-130	11		30
1,2,3-Trichloropropane	88		89		68-130	1		30
2-Hexanone	78		86		70-130	10		30
Bromochloromethane	95		97		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224019

Report Date: 06/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03,06 Batch: WG1636599-10 WG1636599-11								
2,2-Dichloropropane	96		96		70-130	0		30
1,2-Dibromoethane	98		103		70-130	5		30
1,3-Dichloropropane	95		98		69-130	3		30
1,1,1,2-Tetrachloroethane	91		88		70-130	3		30
Bromobenzene	99		99		70-130	0		30
n-Butylbenzene	99		97		70-130	2		30
sec-Butylbenzene	100		98		70-130	2		30
tert-Butylbenzene	99		97		70-130	2		30
o-Chlorotoluene	112		109		70-130	3		30
p-Chlorotoluene	99		97		70-130	2		30
1,2-Dibromo-3-chloropropane	75		80		68-130	6		30
Hexachlorobutadiene	102		99		67-130	3		30
Isopropylbenzene	100		98		70-130	2		30
p-Isopropyltoluene	104		100		70-130	4		30
Naphthalene	91		96		70-130	5		30
Acrylonitrile	83		88		70-130	6		30
n-Propylbenzene	101		98		70-130	3		30
1,2,3-Trichlorobenzene	93		94		70-130	1		30
1,2,4-Trichlorobenzene	95		96		70-130	1		30
1,3,5-Trimethylbenzene	99		97		70-130	2		30
1,2,4-Trimethylbenzene	98		98		70-130	0		30
1,4-Dioxane	83		85		65-136	2		30
p-Diethylbenzene	102		99		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224019

Report Date: 06/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03,06 Batch: WG1636599-10 WG1636599-11								
p-Ethyltoluene	101		99		70-130	2		30
1,2,4,5-Tetramethylbenzene	81		82		70-130	1		30
Ethyl ether	93		98		67-130	5		30
trans-1,4-Dichloro-2-butene	81		88		70-130	8		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	88		95		70-130
Toluene-d8	101		99		70-130
4-Bromofluorobenzene	99		101		70-130
Dibromofluoromethane	96		100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224019
Report Date: 06/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1638946-3 WG1638946-4								
Methylene chloride	84		76		70-130	10		30
1,1-Dichloroethane	90		80		70-130	12		30
Chloroform	87		78		70-130	11		30
Carbon tetrachloride	88		77		70-130	13		30
1,2-Dichloropropane	92		83		70-130	10		30
Dibromochloromethane	88		81		70-130	8		30
1,1,2-Trichloroethane	88		86		70-130	2		30
Tetrachloroethene	94		82		70-130	14		30
Chlorobenzene	90		82		70-130	9		30
Trichlorofluoromethane	84		72		70-139	15		30
1,2-Dichloroethane	88		82		70-130	7		30
1,1,1-Trichloroethane	91		80		70-130	13		30
Bromodichloromethane	85		78		70-130	9		30
trans-1,3-Dichloropropene	93		87		70-130	7		30
cis-1,3-Dichloropropene	94		86		70-130	9		30
1,1-Dichloropropene	99		87		70-130	13		30
Bromoform	79		76		70-130	4		30
1,1,2,2-Tetrachloroethane	92		91		70-130	1		30
Benzene	93		82		70-130	13		30
Toluene	92		81		70-130	13		30
Ethylbenzene	94		84		70-130	11		30
Chloromethane	98		83		52-130	17		30
Bromomethane	104		85		57-147	20		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224019
Report Date: 06/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1638946-3 WG1638946-4								
Vinyl chloride	92		78		67-130	16		30
Chloroethane	94		82		50-151	14		30
1,1-Dichloroethene	82		72		65-135	13		30
trans-1,2-Dichloroethene	87		77		70-130	12		30
Trichloroethene	92		83		70-130	10		30
1,2-Dichlorobenzene	92		84		70-130	9		30
1,3-Dichlorobenzene	95		85		70-130	11		30
1,4-Dichlorobenzene	94		84		70-130	11		30
Methyl tert butyl ether	87		86		66-130	1		30
p/m-Xylene	93		82		70-130	13		30
o-Xylene	91		81		70-130	12		30
cis-1,2-Dichloroethene	86		76		70-130	12		30
Dibromomethane	81		76		70-130	6		30
Styrene	88		79		70-130	11		30
Dichlorodifluoromethane	83		72		30-146	14		30
Acetone	79		82		54-140	4		30
Carbon disulfide	88		76		59-130	15		30
2-Butanone	70		73		70-130	4		30
Vinyl acetate	98		96		70-130	2		30
4-Methyl-2-pentanone	77		82		70-130	6		30
1,2,3-Trichloropropane	90		89		68-130	1		30
2-Hexanone	**67**	Q	71		70-130	6		30
Bromochloromethane	85		77		70-130	10		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224019
Report Date: 06/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1638946-3 WG1638946-4								
2,2-Dichloropropane	89		78		70-130	13		30
1,2-Dibromoethane	88		85		70-130	3		30
1,3-Dichloropropane	91		88		69-130	3		30
1,1,1,2-Tetrachloroethane	93		85		70-130	9		30
Bromobenzene	91		83		70-130	9		30
n-Butylbenzene	110		96		70-130	14		30
sec-Butylbenzene	102		90		70-130	13		30
tert-Butylbenzene	99		86		70-130	14		30
o-Chlorotoluene	100		90		70-130	11		30
p-Chlorotoluene	99		88		70-130	12		30
1,2-Dibromo-3-chloropropane	77		78		68-130	1		30
Hexachlorobutadiene	96		84		67-130	13		30
Isopropylbenzene	101		88		70-130	14		30
p-Isopropyltoluene	104		91		70-130	13		30
Naphthalene	86		87		70-130	1		30
Acrylonitrile	77		76		70-130	1		30
n-Propylbenzene	103		90		70-130	13		30
1,2,3-Trichlorobenzene	96		90		70-130	6		30
1,2,4-Trichlorobenzene	100		93		70-130	7		30
1,3,5-Trimethylbenzene	103		90		70-130	13		30
1,2,4-Trimethylbenzene	103		92		70-130	11		30
1,4-Dioxane	82		84		65-136	2		30
p-Diethylbenzene	105		92		70-130	13		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224019

Report Date: 06/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1638946-3 WG1638946-4								
p-Ethyltoluene	102		89		70-130	14		30
1,2,4,5-Tetramethylbenzene	103		95		70-130	8		30
Ethyl ether	86		81		67-130	6		30
trans-1,4-Dichloro-2-butene	91		91		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		98		70-130
Toluene-d8	104		103		70-130
4-Bromofluorobenzene	108		107		70-130
Dibromofluoromethane	91		91		70-130

SEMIVOLATILES

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-02
Client ID: COMP SB-04(0-4)
Sample Location: MANHATTAN, NY

Date Collected: 05/06/22 09:35
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/17/22 21:27
Analyst: ALS
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/09/22 07:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	23	J	ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	870		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	54	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224019

Project Number: 20-1152 **Report Date:** 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-02 Date Collected: 05/06/22 09:35

Client ID: COMP SB-04(0-4) Date Received: 05/06/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	510		ug/kg	110	20.	1
Benzo(a)pyrene	460		ug/kg	140	44.	1
Benzo(b)fluoranthene	560		ug/kg	110	30.	1
Benzo(k)fluoranthene	190		ug/kg	110	29.	1
Chrysene	430		ug/kg	110	19.	1
Acenaphthylene	40	J	ug/kg	140	28.	1
Anthracene	100	J	ug/kg	110	35.	1
Benzo(ghi)perylene	240		ug/kg	140	21.	1
Fluorene	25	J	ug/kg	180	18.	1
Phenanthrene	380		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	49	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	260		ug/kg	140	25.	1
Pyrene	820		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	24.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	28	J	ug/kg	180	17.	1
2-Methylnaphthalene	31	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224019
Project Number: 20-1152
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-02
Client ID: COMP SB-04(0-4)
Sample Location: MANHATTAN, NY
Date Collected: 05/06/22 09:35
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	22	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1
Tentatively Identified Compounds						
Total TIC Compounds	298	J	ug/kg			1
Unknown PAH	298	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	35		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	59		30-120
2,4,6-Tribromophenol	23		10-136
4-Terphenyl-d14	47		18-120

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-04
Client ID: COMP SB-05(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/06/22 11:50
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/17/22 10:44
Analyst: IM
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/09/22 07:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	52	J	ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	1000		ug/kg	110	21.	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	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	64	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224019

Project Number: 20-1152 **Report Date:** 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-04 Date Collected: 05/06/22 11:50

Client ID: COMP SB-05(0-5) Date Received: 05/06/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	670		ug/kg	110	20.	1
Benzo(a)pyrene	650		ug/kg	140	44.	1
Benzo(b)fluoranthene	740		ug/kg	110	30.	1
Benzo(k)fluoranthene	230		ug/kg	110	29.	1
Chrysene	660		ug/kg	110	19.	1
Acenaphthylene	51	J	ug/kg	140	28.	1
Anthracene	170		ug/kg	110	35.	1
Benzo(ghi)perylene	410		ug/kg	140	21.	1
Fluorene	53	J	ug/kg	180	17.	1
Phenanthrene	600		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	96	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	450		ug/kg	140	25.	1
Pyrene	1000		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	23.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	40	J	ug/kg	180	17.	1
2-Methylnaphthalene	26	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	86.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224019

Project Number: 20-1152 **Report Date:** 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-04 Date Collected: 05/06/22 11:50

Client ID: COMP SB-05(0-5) Date Received: 05/06/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	50	J	ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.3	1
Tentatively Identified Compounds						
Total TIC Compounds	1090	J	ug/kg			1
Unknown	209	J	ug/kg			1
Unknown PAH	196	J	ug/kg			1
Unknown PAH	477	J	ug/kg			1
Unknown	211	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	50		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	60		10-136
4-Terphenyl-d14	55		18-120

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-07
Client ID: COMP SB-08(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/06/22 12:40
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/17/22 21:51
Analyst: ALS
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 05/09/22 07:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	6600		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	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
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	32000	E	ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	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	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	3800		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	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	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	65.	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224019

Project Number: 20-1152 **Report Date:** 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-07 Date Collected: 05/06/22 12:40

Client ID: COMP SB-08(0-5) Date Received: 05/06/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	27000	E	ug/kg	120	22.	1
Benzo(a)pyrene	18000	E	ug/kg	150	47.	1
Benzo(b)fluoranthene	28000	E	ug/kg	120	32.	1
Benzo(k)fluoranthene	2800		ug/kg	120	31.	1
Chrysene	10000	E	ug/kg	120	20.	1
Acenaphthylene	130	J	ug/kg	150	30.	1
Anthracene	14000	E	ug/kg	120	38.	1
Benzo(ghi)perylene	7400		ug/kg	150	23.	1
Fluorene	7200		ug/kg	190	19.	1
Phenanthrene	33000	E	ug/kg	120	23.	1
Dibenzo(a,h)anthracene	2200		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	9200	E	ug/kg	150	27.	1
Pyrene	30000	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	5100		ug/kg	190	18.	1
2-Methylnaphthalene	1700		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	36.	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	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	40	J	ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	74	J	ug/kg	280	30.	1

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-07
Client ID: COMP SB-08(0-5)
Sample Location: MANHATTAN, NY
Date Collected: 05/06/22 12:40
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	3900		ug/kg	190	19.	1
1,4-Dioxane	ND		ug/kg	29	8.9	1
Tentatively Identified Compounds						
Total TIC Compounds	14500	J	ug/kg			1
Unknown PAH	218	J	ug/kg			1
Unknown Naphthalene	488	J	ug/kg			1
Unknown	808	J	ug/kg			1
Unknown Naphthalene	704	J	ug/kg			1
Unknown PAH	371	J	ug/kg			1
Unknown	207	J	ug/kg			1
Unknown	334	J	ug/kg			1
Unknown	376	J	ug/kg			1
Unknown Naphthalene	911	J	ug/kg			1
Unknown Naphthalene	1420	J	ug/kg			1
Unknown PAH	523	J	ug/kg			1
Unknown PAH	535	J	ug/kg			1
Unknown	215	J	ug/kg			1
Unknown	1530	J	ug/kg			1
Unknown Naphthalene	879	J	ug/kg			1
Unknown PAH	770	J	ug/kg			1
Unknown	1060	J	ug/kg			1
Unknown Naphthalene	1270	J	ug/kg			1
Unknown PAH	1540	J	ug/kg			1
Unknown	338	J	ug/kg			1

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224019
Project Number: 20-1152
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-07
Client ID: COMP SB-08(0-5)
Sample Location: MANHATTAN, NY
Date Collected: 05/06/22 12:40
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		25-120
Phenol-d6	56		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	48		30-120
2,4,6-Tribromophenol	48		10-136
4-Terphenyl-d14	47		18-120

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-07 D
Client ID: COMP SB-08(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/06/22 12:40
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/21/22 14:48
Analyst: CMM
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 05/09/22 07:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	51000		ug/kg	1200	220	10
Benzo(a)anthracene	26000		ug/kg	1200	220	10
Benzo(a)pyrene	27000		ug/kg	1500	470	10
Benzo(b)fluoranthene	26000		ug/kg	1200	320	10
Chrysene	24000		ug/kg	1200	200	10
Anthracene	18000		ug/kg	1200	380	10
Phenanthrene	56000		ug/kg	1200	230	10
Indeno(1,2,3-cd)pyrene	18000		ug/kg	1500	270	10
Pyrene	46000		ug/kg	1200	190	10

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/10/22 00:22
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 05/09/22 07:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,04,07 Batch: WG1635978-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/10/22 00:22
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 05/09/22 07:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,04,07 Batch: WG1635978-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	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	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/10/22 00:22
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 05/09/22 07:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,04,07 Batch: WG1635978-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	78		10-136
4-Terphenyl-d14	78		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224019

Report Date: 06/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04,07 Batch: WG1635978-2 WG1635978-3								
Acenaphthene	85		95		31-137	11		50
1,2,4-Trichlorobenzene	84		92		38-107	9		50
Hexachlorobenzene	81		91		40-140	12		50
Bis(2-chloroethyl)ether	80		88		40-140	10		50
2-Chloronaphthalene	81		95		40-140	16		50
1,2-Dichlorobenzene	79		86		40-140	8		50
1,3-Dichlorobenzene	81		86		40-140	6		50
1,4-Dichlorobenzene	81		85		28-104	5		50
3,3'-Dichlorobenzidine	55		61		40-140	10		50
2,4-Dinitrotoluene	87		97		40-132	11		50
2,6-Dinitrotoluene	94		101		40-140	7		50
Fluoranthene	83		94		40-140	12		50
4-Chlorophenyl phenyl ether	83		94		40-140	12		50
4-Bromophenyl phenyl ether	85		93		40-140	9		50
Bis(2-chloroisopropyl)ether	79		85		40-140	7		50
Bis(2-chloroethoxy)methane	79		87		40-117	10		50
Hexachlorobutadiene	77		84		40-140	9		50
Hexachlorocyclopentadiene	96		108		40-140	12		50
Hexachloroethane	71		79		40-140	11		50
Isophorone	78		85		40-140	9		50
Naphthalene	80		89		40-140	11		50
Nitrobenzene	74		82		40-140	10		50
NDPA/DPA	83		93		36-157	11		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224019

Report Date: 06/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04,07 Batch: WG1635978-2 WG1635978-3								
n-Nitrosodi-n-propylamine	72		82		32-121	13		50
Bis(2-ethylhexyl)phthalate	73		86		40-140	16		50
Butyl benzyl phthalate	80		90		40-140	12		50
Di-n-butylphthalate	79		90		40-140	13		50
Di-n-octylphthalate	78		90		40-140	14		50
Diethyl phthalate	80		87		40-140	8		50
Dimethyl phthalate	85		97		40-140	13		50
Benzo(a)anthracene	80		91		40-140	13		50
Benzo(a)pyrene	80		91		40-140	13		50
Benzo(b)fluoranthene	78		90		40-140	14		50
Benzo(k)fluoranthene	86		98		40-140	13		50
Chrysene	81		95		40-140	16		50
Acenaphthylene	84		98		40-140	15		50
Anthracene	81		91		40-140	12		50
Benzo(ghi)perylene	84		97		40-140	14		50
Fluorene	81		92		40-140	13		50
Phenanthrene	80		91		40-140	13		50
Dibenzo(a,h)anthracene	86		98		40-140	13		50
Indeno(1,2,3-cd)pyrene	91		104		40-140	13		50
Pyrene	84		95		35-142	12		50
Biphenyl	84		96		37-127	13		50
4-Chloroaniline	55		**37**	Q	40-140	39		50
2-Nitroaniline	90		102		47-134	13		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04,07 Batch: WG1635978-2 WG1635978-3								
3-Nitroaniline	64		70		26-129	9		50
4-Nitroaniline	83		94		41-125	12		50
Dibenzofuran	80		89		40-140	11		50
2-Methylnaphthalene	83		93		40-140	11		50
1,2,4,5-Tetrachlorobenzene	86		97		40-117	12		50
Acetophenone	77		86		14-144	11		50
2,4,6-Trichlorophenol	95		109		30-130	14		50
p-Chloro-m-cresol	82		94		26-103	14		50
2-Chlorophenol	90		100		25-102	11		50
2,4-Dichlorophenol	91		101		30-130	10		50
2,4-Dimethylphenol	85		96		30-130	12		50
2-Nitrophenol	89		100		30-130	12		50
4-Nitrophenol	71		80		11-114	12		50
2,4-Dinitrophenol	87		96		4-130	10		50
4,6-Dinitro-o-cresol	98		113		10-130	14		50
Pentachlorophenol	99		109		17-109	10		50
Phenol	**93**	Q	**105**	Q	26-90	12		50
2-Methylphenol	90		97		30-130.	7		50
3-Methylphenol/4-Methylphenol	91		101		30-130	10		50
2,4,5-Trichlorophenol	92		105		30-130	13		50
Benzoic Acid	56		58		10-110	4		50
Benzyl Alcohol	82		93		40-140	13		50
Carbazole	82		93		54-128	13		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224019
Report Date: 06/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04,07 Batch: WG1635978-2 WG1635978-3								
1,4-Dioxane	59		64		40-140	8		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	92		98		25-120
Phenol-d6	90		101		10-120
Nitrobenzene-d5	77		85		23-120
2-Fluorobiphenyl	85		95		30-120
2,4,6-Tribromophenol	87		100		10-136
4-Terphenyl-d14	86		96		18-120

PCBS

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-02
Client ID: COMP SB-04(0-4)
Sample Location: MANHATTAN, NY

Date Collected: 05/06/22 09:35
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/10/22 15:34
Analyst: WR
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/10/22 01:32
Cleanup Method: EPA 3665A
Cleanup Date: 05/10/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/10/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	52.4	4.65	1	A
Aroclor 1221	ND		ug/kg	52.4	5.25	1	A
Aroclor 1232	ND		ug/kg	52.4	11.1	1	A
Aroclor 1242	ND		ug/kg	52.4	7.06	1	A
Aroclor 1248	ND		ug/kg	52.4	7.86	1	A
Aroclor 1254	ND		ug/kg	52.4	5.73	1	A
Aroclor 1260	ND		ug/kg	52.4	9.68	1	A
Aroclor 1262	ND		ug/kg	52.4	6.65	1	A
Aroclor 1268	ND		ug/kg	52.4	5.43	1	A
PCBs, Total	ND		ug/kg	52.4	4.65	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-04
Client ID: COMP SB-05(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/06/22 11:50
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/10/22 15:49
Analyst: ER
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/10/22 01:32
Cleanup Method: EPA 3665A
Cleanup Date: 05/10/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/10/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.5	3.15	1	A
Aroclor 1221	ND		ug/kg	35.5	3.56	1	A
Aroclor 1232	ND		ug/kg	35.5	7.52	1	A
Aroclor 1242	ND		ug/kg	35.5	4.78	1	A
Aroclor 1248	ND		ug/kg	35.5	5.32	1	A
Aroclor 1254	ND		ug/kg	35.5	3.88	1	A
Aroclor 1260	9.36	J	ug/kg	35.5	6.56	1	A
Aroclor 1262	ND		ug/kg	35.5	4.51	1	A
Aroclor 1268	ND		ug/kg	35.5	3.68	1	A
PCBs, Total	9.36	J	ug/kg	35.5	3.15	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-07
Client ID: COMP SB-08(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/06/22 12:40
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/10/22 15:50
Analyst: WR
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 05/10/22 01:32
Cleanup Method: EPA 3665A
Cleanup Date: 05/10/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/10/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.3	3.31	1	A
Aroclor 1221	ND		ug/kg	37.3	3.74	1	A
Aroclor 1232	ND		ug/kg	37.3	7.91	1	A
Aroclor 1242	ND		ug/kg	37.3	5.03	1	A
Aroclor 1248	ND		ug/kg	37.3	5.60	1	A
Aroclor 1254	ND		ug/kg	37.3	4.08	1	A
Aroclor 1260	ND		ug/kg	37.3	6.90	1	A
Aroclor 1262	ND		ug/kg	37.3	4.74	1	A
Aroclor 1268	ND		ug/kg	37.3	3.87	1	A
PCBs, Total	ND		ug/kg	37.3	3.31	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/10/22 15:05
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 05/10/22 01:32
Cleanup Method: EPA 3665A
Cleanup Date: 05/10/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/10/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02,04,07 Batch: WG1636406-1						
Aroclor 1016	ND		ug/kg	32.2	2.86	A
Aroclor 1221	ND		ug/kg	32.2	3.23	A
Aroclor 1232	ND		ug/kg	32.2	6.82	A
Aroclor 1242	ND		ug/kg	32.2	4.34	A
Aroclor 1248	ND		ug/kg	32.2	4.83	A
Aroclor 1254	ND		ug/kg	32.2	3.52	A
Aroclor 1260	ND		ug/kg	32.2	5.95	A
Aroclor 1262	ND		ug/kg	32.2	4.09	A
Aroclor 1268	ND		ug/kg	32.2	3.34	A
PCBs, Total	ND		ug/kg	32.2	2.86	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	97		30-150	B
Decachlorobiphenyl	81		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224019

Report Date: 06/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02,04,07 Batch: WG1636406-2 WG1636406-3									
Aroclor 1016	73		77		40-140	5		50	A
Aroclor 1260	68		71		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		93		30-150	A
Decachlorobiphenyl	78		82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		90		30-150	B
Decachlorobiphenyl	71		75		30-150	B

PESTICIDES

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-02
Client ID: COMP SB-04(0-4)
Sample Location: MANHATTAN, NY

Date Collected: 05/06/22 09:35
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/18/22 16:46
Analyst: EJL
Percent Solids: 91%
Methylation Date: 05/10/22 19:52

Extraction Method: EPA 8151A
Extraction Date: 05/09/22 07:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	182	11.5	1	A
2,4,5-T	ND		ug/kg	182	5.65	1	A
2,4,5-TP (Silvex)	ND		ug/kg	182	4.85	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	**26**	Q	30-150	A
DCAA	32		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-02 D
Client ID: COMP SB-04(0-4)
Sample Location: MANHATTAN, NY

Date Collected: 05/06/22 09:35
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/11/22 18:47
Analyst: EJL
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/10/22 00:28
Cleanup Method: EPA 3620B
Cleanup Date: 05/10/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	17.0	3.33	10	A
Lindane	ND		ug/kg	7.08	3.17	10	A
Alpha-BHC	ND		ug/kg	7.08	2.01	10	A
Beta-BHC	ND		ug/kg	17.0	6.45	10	A
Heptachlor	ND		ug/kg	8.50	3.81	10	A
Aldrin	ND		ug/kg	17.0	5.98	10	A
Heptachlor epoxide	ND		ug/kg	31.9	9.56	10	A
Endrin	ND		ug/kg	7.08	2.90	10	A
Endrin aldehyde	ND		ug/kg	21.2	7.44	10	A
Endrin ketone	ND		ug/kg	17.0	4.38	10	A
Dieldrin	ND		ug/kg	10.6	5.31	10	A
4,4'-DDE	13.1	JP	ug/kg	17.0	3.93	10	A
4,4'-DDD	ND		ug/kg	17.0	6.06	10	A
4,4'-DDT	ND		ug/kg	31.9	13.7	10	A
Endosulfan I	ND		ug/kg	17.0	4.02	10	A
Endosulfan II	ND		ug/kg	17.0	5.68	10	A
Endosulfan sulfate	ND		ug/kg	7.08	3.37	10	A
Methoxychlor	ND		ug/kg	31.9	9.92	10	A
Toxaphene	ND		ug/kg	319	89.2	10	A
cis-Chlordane	ND		ug/kg	21.2	5.92	10	A
trans-Chlordane	ND		ug/kg	21.2	5.61	10	A
Chlordane	ND		ug/kg	142	56.3	10	A

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224019
Project Number: 20-1152
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-02 D
Client ID: COMP SB-04(0-4)
Sample Location: MANHATTAN, NY

Date Collected: 05/06/22 09:35
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	111		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	116		30-150	B
Decachlorobiphenyl	135		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-04
Client ID: COMP SB-05(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/06/22 11:50
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/18/22 17:04
Analyst: EJL
Percent Solids: 91%
Methylation Date: 05/10/22 19:52

Extraction Method: EPA 8151A
Extraction Date: 05/09/22 07:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	179	11.3	1	A
2,4,5-T	ND		ug/kg	179	5.55	1	A
2,4,5-TP (Silvex)	ND		ug/kg	179	4.76	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	30		30-150	A
DCAA	33		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-04 D
Client ID: COMP SB-05(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/06/22 11:50
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/11/22 18:57
Analyst: EJL
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/10/22 00:28
Cleanup Method: EPA 3620B
Cleanup Date: 05/10/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	17.0	3.32	10	A
Lindane	ND		ug/kg	7.07	3.16	10	A
Alpha-BHC	ND		ug/kg	7.07	2.01	10	A
Beta-BHC	ND		ug/kg	17.0	6.43	10	A
Heptachlor	ND		ug/kg	8.48	3.80	10	A
Aldrin	ND		ug/kg	17.0	5.97	10	A
Heptachlor epoxide	ND		ug/kg	31.8	9.54	10	A
Endrin	ND		ug/kg	7.07	2.90	10	A
Endrin aldehyde	ND		ug/kg	21.2	7.42	10	A
Endrin ketone	ND		ug/kg	17.0	4.37	10	A
Dieldrin	ND		ug/kg	10.6	5.30	10	A
4,4'-DDE	ND		ug/kg	17.0	3.92	10	A
4,4'-DDD	ND		ug/kg	17.0	6.05	10	A
4,4'-DDT	ND		ug/kg	31.8	13.6	10	A
Endosulfan I	ND		ug/kg	17.0	4.01	10	A
Endosulfan II	ND		ug/kg	17.0	5.67	10	A
Endosulfan sulfate	ND		ug/kg	7.07	3.36	10	A
Methoxychlor	ND		ug/kg	31.8	9.90	10	A
Toxaphene	ND		ug/kg	318	89.1	10	A
cis-Chlordane	ND		ug/kg	21.2	5.91	10	A
trans-Chlordane	10.9	JP	ug/kg	21.2	5.60	10	A
Chlordane	ND		ug/kg	141	56.2	10	A

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224019
Project Number: 20-1152
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-04 D
Client ID: COMP SB-05(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/06/22 11:50
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	111		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	113		30-150	B
Decachlorobiphenyl	123		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-07
Client ID: COMP SB-08(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/06/22 12:40
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/11/22 14:09
Analyst: EJL
Percent Solids: 86%
Methylation Date: 05/10/22 19:52

Extraction Method: EPA 8151A
Extraction Date: 05/09/22 07:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	188	11.9	1	A
2,4,5-T	ND		ug/kg	188	5.84	1	A
2,4,5-TP (Silvex)	ND		ug/kg	188	5.01	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	44		30-150	A
DCAA	44		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-07 D
Client ID: COMP SB-08(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/06/22 12:40
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/11/22 19:07
Analyst: EJL
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 05/10/22 00:29
Cleanup Method: EPA 3620B
Cleanup Date: 05/10/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	17.9	3.51	10	A
Lindane	ND		ug/kg	7.47	3.34	10	A
Alpha-BHC	ND		ug/kg	7.47	2.12	10	A
Beta-BHC	ND		ug/kg	17.9	6.80	10	A
Heptachlor	ND		ug/kg	8.96	4.02	10	A
Aldrin	ND		ug/kg	17.9	6.31	10	A
Heptachlor epoxide	ND		ug/kg	33.6	10.1	10	A
Endrin	ND		ug/kg	7.47	3.06	10	A
Endrin aldehyde	ND		ug/kg	22.4	7.84	10	A
Endrin ketone	ND		ug/kg	17.9	4.62	10	A
Dieldrin	ND		ug/kg	11.2	5.60	10	A
4,4'-DDE	ND		ug/kg	17.9	4.14	10	A
4,4'-DDD	ND		ug/kg	17.9	6.39	10	A
4,4'-DDT	ND		ug/kg	33.6	14.4	10	A
Endosulfan I	ND		ug/kg	17.9	4.24	10	A
Endosulfan II	ND		ug/kg	17.9	5.99	10	A
Endosulfan sulfate	ND		ug/kg	7.47	3.56	10	A
Methoxychlor	ND		ug/kg	33.6	10.4	10	A
Toxaphene	ND		ug/kg	336	94.1	10	A
cis-Chlordane	ND		ug/kg	22.4	6.24	10	A
trans-Chlordane	ND		ug/kg	22.4	5.92	10	A
Chlordane	ND		ug/kg	149	59.4	10	A

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224019
Project Number: 20-1152
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-07 D
Client ID: COMP SB-08(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/06/22 12:40
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	122		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	103		30-150	B
Decachlorobiphenyl	**687**	Q	30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/10/22 05:47
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 05/09/22 05:36
Cleanup Method: EPA 3620B
Cleanup Date: 05/09/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02,04,07 Batch: WG1635921-1						
Delta-BHC	ND		ug/kg	1.52	0.298	A
Lindane	ND		ug/kg	0.635	0.284	A
Alpha-BHC	ND		ug/kg	0.635	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.578	A
Heptachlor	ND		ug/kg	0.762	0.342	A
Aldrin	ND		ug/kg	1.52	0.536	A
Heptachlor epoxide	ND		ug/kg	2.86	0.857	A
Endrin	ND		ug/kg	0.635	0.260	A
Endrin aldehyde	ND		ug/kg	1.90	0.667	A
Endrin ketone	ND		ug/kg	1.52	0.392	A
Dieldrin	ND		ug/kg	0.952	0.476	A
4,4'-DDE	ND		ug/kg	1.52	0.352	A
4,4'-DDD	ND		ug/kg	1.52	0.543	A
4,4'-DDT	ND		ug/kg	2.86	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.360	A
Endosulfan II	ND		ug/kg	1.52	0.509	A
Endosulfan sulfate	ND		ug/kg	0.635	0.302	A
Methoxychlor	ND		ug/kg	2.86	0.889	A
Toxaphene	ND		ug/kg	28.6	8.00	A
cis-Chlordane	ND		ug/kg	1.90	0.531	A
trans-Chlordane	ND		ug/kg	1.90	0.503	A
Chlordane	ND		ug/kg	12.7	5.05	A

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/10/22 05:47
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 05/09/22 05:36
Cleanup Method: EPA 3620B
Cleanup Date: 05/09/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02,04,07 Batch: WG1635921-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 05/11/22 12:37
Analyst: AKM

Extraction Method: EPA 8151A
Extraction Date: 05/09/22 07:38

Methylation Date: 05/10/22 19:52

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 02,04,07 Batch: WG1635963-1						
2,4-D	ND		ug/kg	161	10.2	A
2,4,5-T	ND		ug/kg	161	5.00	A
2,4,5-TP (Silvex)	ND		ug/kg	161	4.29	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	61		30-150	A
DCAA	57		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224019

Report Date: 06/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02,04,07 Batch: WG1635921-2 WG1635921-3									
Delta-BHC	66		62		30-150	6		30	A
Lindane	67		64		30-150	5		30	A
Alpha-BHC	70		66		30-150	6		30	A
Beta-BHC	62		59		30-150	5		30	A
Heptachlor	53		49		30-150	8		30	A
Aldrin	64		60		30-150	6		30	A
Heptachlor epoxide	75		70		30-150	7		30	A
Endrin	70		64		30-150	9		30	A
Endrin aldehyde	46		44		30-150	4		30	A
Endrin ketone	71		62		30-150	14		30	A
Dieldrin	77		71		30-150	8		30	A
4,4'-DDE	76		71		30-150	7		30	A
4,4'-DDD	84		76		30-150	10		30	A
4,4'-DDT	73		68		30-150	7		30	A
Endosulfan I	61		57		30-150	7		30	A
Endosulfan II	71		65		30-150	9		30	A
Endosulfan sulfate	54		51		30-150	6		30	A
Methoxychlor	89		81		30-150	9		30	A
cis-Chlordane	71		62		30-150	14		30	A
trans-Chlordane	73		78		30-150	7		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224019

Report Date: 06/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02,04,07 Batch: WG1635921-2 WG1635921-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		64		30-150	A
Decachlorobiphenyl	92		74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	55		62		30-150	B
Decachlorobiphenyl	57		55		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224019

Report Date: 06/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 02,04,07 Batch: WG1635963-2 WG1635963-3									
2,4-D	67		51		30-150	27		30	A
2,4,5-T	69		50		30-150	**32**	Q	30	A
2,4,5-TP (Silvex)	67		53		30-150	23		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	64		42		30-150	A
DCAA	68		44		30-150	B

METALS

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-02
Client ID: COMP SB-04(0-4)
Sample Location: MANHATTAN, NY
Date Collected: 05/06/22 09:35
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4560		mg/kg	8.39	2.26	2	05/21/22 09:00	05/25/22 20:09	EPA 3050B	1,6010D	MC
Antimony, Total	1.35	J	mg/kg	4.20	0.319	2	05/21/22 09:00	05/25/22 20:09	EPA 3050B	1,6010D	MC
Arsenic, Total	2.87		mg/kg	0.839	0.174	2	05/21/22 09:00	05/25/22 20:09	EPA 3050B	1,6010D	MC
Barium, Total	60.5		mg/kg	0.839	0.146	2	05/21/22 09:00	05/25/22 20:09	EPA 3050B	1,6010D	MC
Beryllium, Total	0.403	J	mg/kg	0.420	0.028	2	05/21/22 09:00	05/25/22 20:09	EPA 3050B	1,6010D	MC
Cadmium, Total	0.352	J	mg/kg	0.839	0.082	2	05/21/22 09:00	05/25/22 20:09	EPA 3050B	1,6010D	MC
Calcium, Total	42800		mg/kg	8.39	2.94	2	05/21/22 09:00	05/25/22 20:09	EPA 3050B	1,6010D	MC
Chromium, Total	12.4		mg/kg	0.839	0.081	2	05/21/22 09:00	05/25/22 20:09	EPA 3050B	1,6010D	MC
Cobalt, Total	6.21		mg/kg	1.68	0.139	2	05/21/22 09:00	05/25/22 20:09	EPA 3050B	1,6010D	MC
Copper, Total	19.8		mg/kg	0.839	0.216	2	05/21/22 09:00	05/25/22 20:09	EPA 3050B	1,6010D	MC
Iron, Total	8600		mg/kg	4.20	0.758	2	05/21/22 09:00	05/25/22 20:09	EPA 3050B	1,6010D	MC
Lead, Total	36.1		mg/kg	4.20	0.225	2	05/21/22 09:00	05/25/22 20:09	EPA 3050B	1,6010D	MC
Magnesium, Total	12400		mg/kg	8.39	1.29	2	05/21/22 09:00	05/25/22 20:09	EPA 3050B	1,6010D	MC
Manganese, Total	144		mg/kg	0.839	0.133	2	05/21/22 09:00	05/25/22 20:09	EPA 3050B	1,6010D	MC
Mercury, Total	0.083		mg/kg	0.070	0.046	1	05/21/22 10:40	05/24/22 10:55	EPA 7471B	1,7471B	DMB
Nickel, Total	10.6		mg/kg	2.10	0.203	2	05/21/22 09:00	05/25/22 20:09	EPA 3050B	1,6010D	MC
Potassium, Total	1930		mg/kg	210	12.1	2	05/21/22 09:00	05/25/22 20:09	EPA 3050B	1,6010D	MC
Selenium, Total	0.881	J	mg/kg	1.68	0.216	2	05/21/22 09:00	05/25/22 20:09	EPA 3050B	1,6010D	MC
Silver, Total	0.369	J	mg/kg	0.839	0.237	2	05/21/22 09:00	05/25/22 20:09	EPA 3050B	1,6010D	MC
Sodium, Total	346		mg/kg	168	2.64	2	05/21/22 09:00	05/25/22 20:09	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.68	0.264	2	05/21/22 09:00	05/25/22 20:09	EPA 3050B	1,6010D	MC
Vanadium, Total	19.3		mg/kg	0.839	0.170	2	05/21/22 09:00	05/25/22 20:09	EPA 3050B	1,6010D	MC
Zinc, Total	38.8		mg/kg	4.20	0.246	2	05/21/22 09:00	05/25/22 20:09	EPA 3050B	1,6010D	MC

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224019
Project Number: 20-1152
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-04
Client ID: COMP SB-05(0-5)
Sample Location: MANHATTAN, NY
Date Collected: 05/06/22 11:50
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3850		mg/kg	8.57	2.31	2	05/21/22 09:00	05/25/22 20:14	EPA 3050B	1,6010D	MC
Antimony, Total	1.62	J	mg/kg	4.28	0.326	2	05/21/22 09:00	05/25/22 20:14	EPA 3050B	1,6010D	MC
Arsenic, Total	2.54		mg/kg	0.857	0.178	2	05/21/22 09:00	05/25/22 20:14	EPA 3050B	1,6010D	MC
Barium, Total	46.4		mg/kg	0.857	0.149	2	05/21/22 09:00	05/25/22 20:14	EPA 3050B	1,6010D	MC
Beryllium, Total	0.420	J	mg/kg	0.428	0.028	2	05/21/22 09:00	05/25/22 20:14	EPA 3050B	1,6010D	MC
Cadmium, Total	0.420	J	mg/kg	0.857	0.084	2	05/21/22 09:00	05/25/22 20:14	EPA 3050B	1,6010D	MC
Calcium, Total	11000		mg/kg	8.57	3.00	2	05/21/22 09:00	05/25/22 20:14	EPA 3050B	1,6010D	MC
Chromium, Total	11.1		mg/kg	0.857	0.082	2	05/21/22 09:00	05/25/22 20:14	EPA 3050B	1,6010D	MC
Cobalt, Total	6.10		mg/kg	1.71	0.142	2	05/21/22 09:00	05/25/22 20:14	EPA 3050B	1,6010D	MC
Copper, Total	21.6		mg/kg	0.857	0.221	2	05/21/22 09:00	05/25/22 20:14	EPA 3050B	1,6010D	MC
Iron, Total	8810		mg/kg	4.28	0.774	2	05/21/22 09:00	05/25/22 20:14	EPA 3050B	1,6010D	MC
Lead, Total	56.1		mg/kg	4.28	0.230	2	05/21/22 09:00	05/25/22 20:14	EPA 3050B	1,6010D	MC
Magnesium, Total	2880		mg/kg	8.57	1.32	2	05/21/22 09:00	05/25/22 20:14	EPA 3050B	1,6010D	MC
Manganese, Total	158		mg/kg	0.857	0.136	2	05/21/22 09:00	05/25/22 20:14	EPA 3050B	1,6010D	MC
Mercury, Total	0.176		mg/kg	0.070	0.046	1	05/21/22 10:40	05/24/22 10:59	EPA 7471B	1,7471B	DMB
Nickel, Total	11.7		mg/kg	2.14	0.207	2	05/21/22 09:00	05/25/22 20:14	EPA 3050B	1,6010D	MC
Potassium, Total	1180		mg/kg	214	12.3	2	05/21/22 09:00	05/25/22 20:14	EPA 3050B	1,6010D	MC
Selenium, Total	0.540	J	mg/kg	1.71	0.221	2	05/21/22 09:00	05/25/22 20:14	EPA 3050B	1,6010D	MC
Silver, Total	0.334	J	mg/kg	0.857	0.242	2	05/21/22 09:00	05/25/22 20:14	EPA 3050B	1,6010D	MC
Sodium, Total	134	J	mg/kg	171	2.70	2	05/21/22 09:00	05/25/22 20:14	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.71	0.270	2	05/21/22 09:00	05/25/22 20:14	EPA 3050B	1,6010D	MC
Vanadium, Total	15.9		mg/kg	0.857	0.174	2	05/21/22 09:00	05/25/22 20:14	EPA 3050B	1,6010D	MC
Zinc, Total	58.5		mg/kg	4.28	0.251	2	05/21/22 09:00	05/25/22 20:14	EPA 3050B	1,6010D	MC

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224019
Project Number: 20-1152
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-05
Client ID: COMP (SB-04,SB-05)
Sample Location: MANHATTAN, NY
Date Collected: 05/06/22 11:55
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
TCLP/SPLP Ext. Date: 05/08/22 12:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	05/26/22 09:00	06/02/22 09:28	EPA 3015	1,6010D	NB
Barium, TCLP	0.387	J	mg/l	0.500	0.021	1	05/26/22 09:00	06/02/22 09:28	EPA 3015	1,6010D	NB
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/26/22 09:00	06/02/22 09:28	EPA 3015	1,6010D	NB
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/26/22 09:00	06/02/22 09:28	EPA 3015	1,6010D	NB
Lead, TCLP	ND		mg/l	0.500	0.027	1	05/26/22 09:00	06/02/22 09:28	EPA 3015	1,6010D	NB
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	05/26/22 09:50	05/26/22 14:08	EPA 7470A	1,7470A	DMB
Selenium, TCLP	ND		mg/l	0.500	0.035	1	05/26/22 09:00	06/02/22 09:28	EPA 3015	1,6010D	NB
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/26/22 09:00	06/02/22 09:28	EPA 3015	1,6010D	NB

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224019
Project Number: 20-1152
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-07
Client ID: COMP SB-08(0-5)
Sample Location: MANHATTAN, NY
Date Collected: 05/06/22 12:40
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3980		mg/kg	8.85	2.39	2	05/21/22 09:00	05/25/22 20:04	EPA 3050B	1,6010D	MC
Antimony, Total	2.34	J	mg/kg	4.42	0.336	2	05/21/22 09:00	05/25/22 20:04	EPA 3050B	1,6010D	MC
Arsenic, Total	5.50		mg/kg	0.885	0.184	2	05/21/22 09:00	05/25/22 20:04	EPA 3050B	1,6010D	MC
Barium, Total	56.1		mg/kg	0.885	0.154	2	05/21/22 09:00	05/25/22 20:04	EPA 3050B	1,6010D	MC
Beryllium, Total	0.416	J	mg/kg	0.442	0.029	2	05/21/22 09:00	05/25/22 20:04	EPA 3050B	1,6010D	MC
Cadmium, Total	0.513	J	mg/kg	0.885	0.087	2	05/21/22 09:00	05/25/22 20:04	EPA 3050B	1,6010D	MC
Calcium, Total	11200		mg/kg	8.85	3.10	2	05/21/22 09:00	05/25/22 20:04	EPA 3050B	1,6010D	MC
Chromium, Total	14.6		mg/kg	0.885	0.085	2	05/21/22 09:00	05/25/22 20:04	EPA 3050B	1,6010D	MC
Cobalt, Total	6.17		mg/kg	1.77	0.147	2	05/21/22 09:00	05/25/22 20:04	EPA 3050B	1,6010D	MC
Copper, Total	20.5		mg/kg	0.885	0.228	2	05/21/22 09:00	05/25/22 20:04	EPA 3050B	1,6010D	MC
Iron, Total	8610		mg/kg	4.42	0.799	2	05/21/22 09:00	05/25/22 20:04	EPA 3050B	1,6010D	MC
Lead, Total	44.1		mg/kg	4.42	0.237	2	05/21/22 09:00	05/25/22 20:04	EPA 3050B	1,6010D	MC
Magnesium, Total	2220		mg/kg	8.85	1.36	2	05/21/22 09:00	05/25/22 20:04	EPA 3050B	1,6010D	MC
Manganese, Total	142		mg/kg	0.885	0.141	2	05/21/22 09:00	05/25/22 20:04	EPA 3050B	1,6010D	MC
Mercury, Total	0.209		mg/kg	0.073	0.047	1	05/21/22 10:40	05/24/22 11:02	EPA 7471B	1,7471B	DMB
Nickel, Total	12.2		mg/kg	2.21	0.214	2	05/21/22 09:00	05/25/22 20:04	EPA 3050B	1,6010D	MC
Potassium, Total	1080		mg/kg	221	12.7	2	05/21/22 09:00	05/25/22 20:04	EPA 3050B	1,6010D	MC
Selenium, Total	0.796	J	mg/kg	1.77	0.228	2	05/21/22 09:00	05/25/22 20:04	EPA 3050B	1,6010D	MC
Silver, Total	0.327	J	mg/kg	0.885	0.250	2	05/21/22 09:00	05/25/22 20:04	EPA 3050B	1,6010D	MC
Sodium, Total	459		mg/kg	177	2.79	2	05/21/22 09:00	05/25/22 20:04	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.77	0.279	2	05/21/22 09:00	05/25/22 20:04	EPA 3050B	1,6010D	MC
Vanadium, Total	18.0		mg/kg	0.885	0.180	2	05/21/22 09:00	05/25/22 20:04	EPA 3050B	1,6010D	MC
Zinc, Total	72.8		mg/kg	4.42	0.259	2	05/21/22 09:00	05/25/22 20:04	EPA 3050B	1,6010D	MC

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224019
Project Number: 20-1152
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-08
Client ID: COMP (SB-08)
Sample Location: MANHATTAN, NY
Date Collected: 05/06/22 12:45
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
TCLP/SPLP Ext. Date: 05/08/22 12:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	0.020	J	mg/l	1.00	0.019	1	05/26/22 09:00	06/02/22 10:21	EPA 3015	1,6010D	NB
Barium, TCLP	0.288	J	mg/l	0.500	0.021	1	05/26/22 09:00	06/02/22 10:21	EPA 3015	1,6010D	NB
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/26/22 09:00	06/02/22 10:21	EPA 3015	1,6010D	NB
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/26/22 09:00	06/02/22 10:21	EPA 3015	1,6010D	NB
Lead, TCLP	ND		mg/l	0.500	0.027	1	05/26/22 09:00	06/02/22 10:21	EPA 3015	1,6010D	NB
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	05/26/22 09:50	05/26/22 14:18	EPA 7470A	1,7470A	DMB
Selenium, TCLP	ND		mg/l	0.500	0.035	1	05/26/22 09:00	06/02/22 10:21	EPA 3015	1,6010D	NB
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/26/22 09:00	06/02/22 12:07	EPA 3015	1,6010D	NB

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

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): 02,04,07 Batch: WG1641159-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	05/21/22 09:00	05/25/22 17:35	1,6010D	MC
Antimony, Total	ND		mg/kg	2.00	0.152	1	05/21/22 09:00	05/25/22 17:35	1,6010D	MC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	05/21/22 09:00	05/25/22 17:35	1,6010D	MC
Barium, Total	ND		mg/kg	0.400	0.070	1	05/21/22 09:00	05/25/22 17:35	1,6010D	MC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	05/21/22 09:00	05/25/22 17:35	1,6010D	MC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	05/21/22 09:00	05/25/22 17:35	1,6010D	MC
Calcium, Total	1.92	J	mg/kg	4.00	1.40	1	05/21/22 09:00	05/25/22 17:35	1,6010D	MC
Chromium, Total	ND		mg/kg	0.400	0.038	1	05/21/22 09:00	05/25/22 17:35	1,6010D	MC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	05/21/22 09:00	05/25/22 17:35	1,6010D	MC
Copper, Total	ND		mg/kg	0.400	0.103	1	05/21/22 09:00	05/25/22 17:35	1,6010D	MC
Iron, Total	0.788	J	mg/kg	2.00	0.361	1	05/21/22 09:00	05/25/22 17:35	1,6010D	MC
Lead, Total	ND		mg/kg	2.00	0.107	1	05/21/22 09:00	05/25/22 17:35	1,6010D	MC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	05/21/22 09:00	05/25/22 20:26	1,6010D	MC
Manganese, Total	ND		mg/kg	0.400	0.064	1	05/21/22 09:00	05/25/22 17:35	1,6010D	MC
Nickel, Total	ND		mg/kg	1.00	0.097	1	05/21/22 09:00	05/25/22 17:35	1,6010D	MC
Potassium, Total	ND		mg/kg	100	5.76	1	05/21/22 09:00	05/25/22 17:35	1,6010D	MC
Selenium, Total	ND		mg/kg	0.800	0.103	1	05/21/22 09:00	05/25/22 17:35	1,6010D	MC
Silver, Total	ND		mg/kg	0.400	0.113	1	05/21/22 09:00	05/25/22 17:35	1,6010D	MC
Sodium, Total	ND		mg/kg	80.0	1.26	1	05/21/22 09:00	05/25/22 17:35	1,6010D	MC
Thallium, Total	ND		mg/kg	0.800	0.126	1	05/21/22 09:00	05/25/22 17:35	1,6010D	MC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	05/21/22 09:00	05/25/22 17:35	1,6010D	MC
Zinc, Total	ND		mg/kg	2.00	0.117	1	05/21/22 09:00	05/25/22 17:35	1,6010D	MC

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): 02,04,07 Batch: WG1641160-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	05/21/22 10:40	05/24/22 10:22	1,7471B	DMB

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 05,08 Batch: WG1642590-1										
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	05/26/22 09:00	06/02/22 09:14	1,6010D	NB
Barium, TCLP	ND		mg/l	0.500	0.021	1	05/26/22 09:00	06/02/22 09:14	1,6010D	NB
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/26/22 09:00	06/02/22 09:14	1,6010D	NB
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/26/22 09:00	06/02/22 09:14	1,6010D	NB
Lead, TCLP	ND		mg/l	0.500	0.027	1	05/26/22 09:00	06/02/22 09:14	1,6010D	NB
Selenium, TCLP	ND		mg/l	0.500	0.035	1	05/26/22 09:00	06/02/22 09:14	1,6010D	NB
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/26/22 09:00	06/02/22 09:14	1,6010D	NB

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 05/07/22 01:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 05,08 Batch: WG1642594-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	05/26/22 09:50	05/26/22 13:50	1,7470A	DMB

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 05/07/22 01:26

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224019

Report Date: 06/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04,07 Batch: WG1641159-2 SRM Lot Number: D113-540								
Aluminum, Total	73		-		51-149	-		
Antimony, Total	131		-		20-250	-		
Arsenic, Total	91		-		70-130	-		
Barium, Total	97		-		75-125	-		
Beryllium, Total	86		-		75-125	-		
Cadmium, Total	85		-		75-125	-		
Calcium, Total	92		-		73-128	-		
Chromium, Total	88		-		70-130	-		
Cobalt, Total	96		-		75-125	-		
Copper, Total	92		-		75-125	-		
Iron, Total	89		-		36-164	-		
Lead, Total	90		-		72-128	-		
Magnesium, Total	93		-		63-138	-		
Manganese, Total	97		-		77-123	-		
Nickel, Total	90		-		70-130	-		
Potassium, Total	93		-		59-141	-		
Selenium, Total	92		-		66-134	-		
Silver, Total	90		-		70-131	-		
Sodium, Total	104		-		35-164	-		
Thallium, Total	86		-		70-130	-		
Vanadium, Total	91		-		74-126	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224019

Report Date: 06/02/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04,07 Batch: WG1641159-2 SRM Lot Number: D113-540					
Zinc, Total	92	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 02,04,07 Batch: WG1641160-2 SRM Lot Number: D113-540					
Mercury, Total	102	-	60-140	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05,08 Batch: WG1642590-2					
Arsenic, TCLP	107	-	75-125	-	20
Barium, TCLP	98	-	75-125	-	20
Cadmium, TCLP	98	-	75-125	-	20
Chromium, TCLP	92	-	75-125	-	20
Lead, TCLP	93	-	75-125	-	20
Selenium, TCLP	99	-	75-125	-	20
Silver, TCLP	96	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05,08 Batch: WG1642594-2					
Mercury, TCLP	104	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224019
Report Date: 06/02/22

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): 02,04,07 QC Batch ID: WG1641159-3 QC Sample: L2223962-01 Client ID: MS Sample												
Aluminum, Total	2850	199	4010	**584**	Q	-	-		75-125	-		20
Antimony, Total	2.17J	49.7	37.1	75		-	-		75-125	-		20
Arsenic, Total	8.31	11.9	21.2	108		-	-		75-125	-		20
Barium, Total	26.6	199	216	95		-	-		75-125	-		20
Beryllium, Total	1.03	4.97	5.48	90		-	-		75-125	-		20
Cadmium, Total	0.476J	5.26	4.97	94		-	-		75-125	-		20
Calcium, Total	947	993	1480	**54**	Q	-	-		75-125	-		20
Chromium, Total	19.6	19.9	40.8	107		-	-		75-125	-		20
Cobalt, Total	9.92	49.7	49.2	79		-	-		75-125	-		20
Copper, Total	7.89	24.8	28.2	82		-	-		75-125	-		20
Iron, Total	14700	99.3	19000	**4330**	Q	-	-		75-125	-		20
Lead, Total	9.38	52.6	51.6	80		-	-		75-125	-		20
Magnesium, Total	893	993	2050	116		-	-		75-125	-		20
Manganese, Total	66.2	49.7	117	102		-	-		75-125	-		20
Nickel, Total	18.0	49.7	59.3	83		-	-		75-125	-		20
Potassium, Total	968	993	2200	124		-	-		75-125	-		20
Selenium, Total	0.416J	11.9	10.4	87		-	-		75-125	-		20
Silver, Total	ND	29.8	26.2	88		-	-		75-125	-		20
Sodium, Total	88.7J	993	1000	101		-	-		75-125	-		20
Thallium, Total	0.486J	11.9	9.68	81		-	-		75-125	-		20
Vanadium, Total	20.2	49.7	64.8	90		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224019
Report Date: 06/02/22

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): 02,04,07 QC Batch ID: WG1641159-3 QC Sample: L2223962-01 Client ID: MS Sample									
Zinc, Total	83.6	49.7	136	106	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 02,04,07 QC Batch ID: WG1641160-3 QC Sample: L2223962-01 Client ID: MS Sample									
Mercury, Total	ND	0.166	0.189	114	-	-	80-120	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05,08 QC Batch ID: WG1642590-3 QC Sample: L2224152-01 Client ID: MS Sample									
Arsenic, TCLP	0.024J	1.2	1.25	104	-	-	75-125	-	20
Barium, TCLP	0.083J	20	19.7	98	-	-	75-125	-	20
Cadmium, TCLP	ND	0.53	0.508	96	-	-	75-125	-	20
Chromium, TCLP	ND	2	1.76	88	-	-	75-125	-	20
Lead, TCLP	ND	5.3	4.90	92	-	-	75-125	-	20
Selenium, TCLP	ND	1.2	1.15	96	-	-	75-125	-	20
Silver, TCLP	ND	0.5	0.460	92	-	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05,08 QC Batch ID: WG1642594-3 QC Sample: L2224019-05 Client ID: COMP (SB-04,SB-05)									
Mercury, TCLP	ND	0.025	0.0245	98	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224019
Report Date: 06/02/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04,07 QC Batch ID: WG1641159-4 QC Sample: L2223962-01 Client ID: DUP Sample						
Aluminum, Total	2850	2390	mg/kg	18		20
Antimony, Total	2.17J	1.97J	mg/kg	NC		20
Arsenic, Total	8.31	6.73	mg/kg	**21**	Q	20
Barium, Total	26.6	23.5	mg/kg	12		20
Beryllium, Total	1.03	1.16	mg/kg	12		20
Cadmium, Total	0.476J	0.426J	mg/kg	NC		20
Calcium, Total	947	710	mg/kg	**29**	Q	20
Chromium, Total	19.6	17.4	mg/kg	12		20
Cobalt, Total	9.92	11.0	mg/kg	10		20
Copper, Total	7.89	8.94	mg/kg	12		20
Iron, Total	14700	11800	mg/kg	**22**	Q	20
Lead, Total	9.38	7.94	mg/kg	17		20
Manganese, Total	66.2	51.6	mg/kg	**25**	Q	20
Nickel, Total	18.0	19.8	mg/kg	10		20
Potassium, Total	968	730	mg/kg	**28**	Q	20
Selenium, Total	0.416J	0.466J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	88.7J	81.9J	mg/kg	NC		20
Thallium, Total	0.486J	0.506J	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224019
Report Date: 06/02/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04,07 QC Batch ID: WG1641159-4 QC Sample: L2223962-01 Client ID: DUP Sample					
Vanadium, Total	20.2	20.1	mg/kg	0	20
Zinc, Total	83.6	86.5	mg/kg	3	20
Total Metals - Mansfield Lab Associated sample(s): 02,04,07 QC Batch ID: WG1641159-4 QC Sample: L2223962-01 Client ID: DUP Sample					
Magnesium, Total	893	777	mg/kg	14	20
Total Metals - Mansfield Lab Associated sample(s): 02,04,07 QC Batch ID: WG1641160-4 QC Sample: L2223962-01 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/kg	NC	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05,08 QC Batch ID: WG1642590-4 QC Sample: L2224152-01 Client ID: DUP Sample					
Arsenic, TCLP	0.024J	0.025J	mg/l	NC	20
Barium, TCLP	0.083J	0.083J	mg/l	NC	20
Cadmium, TCLP	ND	ND	mg/l	NC	20
Chromium, TCLP	ND	ND	mg/l	NC	20
Lead, TCLP	ND	ND	mg/l	NC	20
Selenium, TCLP	ND	ND	mg/l	NC	20
Silver, TCLP	ND	ND	mg/l	NC	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05,08 QC Batch ID: WG1642594-4 QC Sample: L2224019-05 Client ID: COMP (SB-04,SB-05)					
Mercury, TCLP	ND	ND	mg/l	NC	20

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2224019
Report Date: 06/02/22

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04,07 QC Batch ID: WG1641159-6 QC Sample: L2223962-01 Client ID: DUP Sample						
Aluminum, Total	2850	3550	mg/kg	**25**	Q	20
Barium, Total	26.6	123	mg/kg	**362**	Q	20
Calcium, Total	947	1620	mg/kg	**71**	Q	20
Iron, Total	14700	18500	mg/kg	**26**	Q	20
Manganese, Total	66.2	104	mg/kg	**57**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 02,04,07 QC Batch ID: WG1641159-6 QC Sample: L2223962-01 Client ID: DUP Sample						
Magnesium, Total	893	1520	mg/kg	**70**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-05
Client ID: COMP (SB-04,SB-05)
Sample Location: MANHATTAN, NY

Date Collected: 05/06/22 11:55
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	05/15/22 14:41	1,1030	PA

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-08
Client ID: COMP (SB-08)
Sample Location: MANHATTAN, NY

Date Collected: 05/06/22 12:45
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	05/15/22 14:41	1,1030	PA

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-01
Client ID: SB-04(0-2)
Sample Location: MANHATTAN, NY

Date Collected: 05/06/22 09:30
Date Received: 05/06/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.5		%	0.100	NA	1	-	05/10/22 09:18	121,2540G	RI

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-02
Client ID: COMP SB-04(0-4)
Sample Location: MANHATTAN, NY

Date Collected: 05/06/22 09:35
Date Received: 05/06/22
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	90.9		%	0.100	NA	1	-	05/14/22 12:50	121,2540G	RI
Cyanide, Total	0.29	J	mg/kg	1.0	0.21	1	05/18/22 18:10	05/19/22 11:20	1,9010C/9012B	CS
Chromium, Hexavalent	0.352	J	mg/kg	0.880	0.176	1	05/11/22 18:06	05/11/22 22:08	1,7196A	NL

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-03
Client ID: SB-05(0-2)
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/06/22 11:45
Date Received: 05/06/22
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	91.6		%	0.100	NA	1	-	05/10/22 09:18	121,2540G	RI

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-04
Client ID: COMP SB-05(0-5)
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/06/22 11:50
Date Received: 05/06/22
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	90.8		%	0.100	NA	1	-	05/14/22 12:50	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/18/22 18:10	05/19/22 11:21	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.881	0.176	1	05/11/22 18:06	05/11/22 22:08	1,7196A	NL

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-05
Client ID: COMP (SB-04,SB-05)
Sample Location: MANHATTAN, NY

Date Collected: 05/06/22 11:55
Date Received: 05/06/22
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										
pH (H)	9.6		SU	-	NA	1	-	05/13/22 21:00	1,9045D	AS
Cyanide, Reactive	ND		mg/kg	10	10.	1	05/19/22 14:40	05/19/22 16:55	125,7.3	MJ
Sulfide, Reactive	ND		mg/kg	10	10.	1	05/19/22 14:40	05/19/22 16:22	125,7.3	MJ

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-06
Client ID: SB-08(0-2)
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/06/22 12:30
Date Received: 05/06/22
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	81.9		%	0.100	NA	1	-	05/10/22 09:18	121,2540G	RI

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-07
Client ID: COMP SB-08(0-5)
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/06/22 12:40
Date Received: 05/06/22
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	86.2		%	0.100	NA	1	-	05/14/22 12:50	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	05/18/22 18:10	05/19/22 11:24	1,9010C/9012B	CS
Chromium, Hexavalent	0.244	J	mg/kg	0.928	0.186	1	05/11/22 18:06	05/11/22 22:08	1,7196A	NL

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

SAMPLE RESULTS

Lab ID: L2224019-08
Client ID: COMP (SB-08)
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/06/22 12:45
Date Received: 05/06/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
pH (H)	8.5		SU	-	NA	1	-	05/13/22 21:00	1,9045D	AS
Cyanide, Reactive	ND		mg/kg	10	10.	1	05/19/22 14:40	05/19/22 16:55	125,7.3	MJ
Sulfide, Reactive	ND		mg/kg	10	10.	1	05/19/22 14:40	05/19/22 16:22	125,7.3	MJ

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224019
Report Date: 06/02/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02,04,07 Batch: WG1635747-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	05/11/22 18:06	05/11/22 22:08	1,7196A	NL
General Chemistry - Westborough Lab for sample(s): 05,08 Batch: WG1640046-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	05/19/22 14:40	05/19/22 16:21	125,7.3	MJ
General Chemistry - Westborough Lab for sample(s): 02,04,07 Batch: WG1640075-1										
Cyanide, Total	ND		mg/kg	0.95	0.20	1	05/18/22 18:10	05/19/22 10:55	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 05,08 Batch: WG1640470-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	05/19/22 14:40	05/19/22 16:54	125,7.3	MJ

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224019

Report Date: 06/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02,04,07 Batch: WG1635747-2								
Chromium, Hexavalent	102		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 05,08 Batch: WG1638353-1								
pH	101		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 05,08 Batch: WG1640046-2								
Sulfide, Reactive	112		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 02,04,07 Batch: WG1640075-2 WG1640075-3								
Cyanide, Total	**61**	Q	80		80-120	**63**	Q	35
General Chemistry - Westborough Lab Associated sample(s): 05,08 Batch: WG1640470-2								
Cyanide, Reactive	99		-		30-125	-		40

Matrix Spike Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224019
Report Date: 06/02/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02,04,07 QC Batch ID: WG1635747-4 QC Sample: L2224019-04 Client ID: COMP SB-05(0-5)												
Chromium, Hexavalent	ND	883	875	99		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 02,04,07 QC Batch ID: WG1640075-4 WG1640075-5 QC Sample: L2224019-04 Client ID: COMP SB-05(0-5)												
Cyanide, Total	ND	10	9.7	94		10	94		75-125	3		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224019
Report Date: 06/02/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02,04,07 QC Batch ID: WG1635747-6 QC Sample: L2224019-04 Client ID: COMP SB-05(0-5)						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01,03,06 QC Batch ID: WG1636472-1 QC Sample: L2223874-01 Client ID: DUP Sample						
Solids, Total	33.7	32.1	%	5		20
General Chemistry - Westborough Lab Associated sample(s): 05,08 QC Batch ID: WG1638353-2 QC Sample: L2224019-05 Client ID: COMP (SB-04,SB-05)						
pH (H)	9.6	9.4	SU	2		5
General Chemistry - Westborough Lab Associated sample(s): 02,04,07 QC Batch ID: WG1638509-1 QC Sample: L2224182-01 Client ID: DUP Sample						
Solids, Total	88.0	88.6	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 05,08 QC Batch ID: WG1640046-3 QC Sample: L2225817-04 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 05,08 QC Batch ID: WG1640470-3 QC Sample: L2225817-04 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224019
Report Date: 06/02/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2224019-01A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2224019-01B	Vial water preserved	A	NA		2.7	Y	Absent	07-MAY-22 12:20	NYTCL-8260HLW(14)
L2224019-01C	Vial water preserved	A	NA		2.7	Y	Absent	07-MAY-22 12:20	NYTCL-8260HLW(14)
L2224019-01D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2224019-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2224019-02B	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HEXCR-7196(30)
L2224019-02C	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(365)
L2224019-03A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2224019-03B	Vial water preserved	A	NA		2.7	Y	Absent	07-MAY-22 12:20	NYTCL-8260HLW(14)
L2224019-03C	Vial water preserved	A	NA		2.7	Y	Absent	07-MAY-22 12:20	NYTCL-8260HLW(14)
L2224019-03D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2224019-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),CR-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),FE-TI(180),MN-TI(180),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2224019-04B	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HEXCR-7196(30)
L2224019-04C	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(365)
L2224019-05A	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		REACTS(14),IGNIT-1030(14),PH-9045(1),REACTCN(14)

*Values in parentheses indicate holding time in days

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224019
Report Date: 06/02/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2224019-05X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.7	Y	Absent		CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2224019-05X9	Tumble Vessel	A	NA		2.7	Y	Absent		-
L2224019-06A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2224019-06B	Vial water preserved	A	NA		2.7	Y	Absent	07-MAY-22 12:20	NYTCL-8260HLW(14)
L2224019-06C	Vial water preserved	A	NA		2.7	Y	Absent	07-MAY-22 12:20	NYTCL-8260HLW(14)
L2224019-06D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2224019-07A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NA-TI(180),CD-TI(180),CA-TI(180),K-TI(180)
L2224019-07B	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HEXCR-7196(30)
L2224019-07C	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(365)
L2224019-08A	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		REACTS(14),IGNIT-1030(14),PH-9045(1),REACTCN(14)
L2224019-08X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.7	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2224019-08X9	Tumble Vessel	A	NA		2.7	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	20-1152 BATTERY PARK	**Lab Number:**	L2224019
Project Number:	20-1152	**Report Date:**	06/02/22

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

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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. 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.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

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Project Number:	20-1152	**Report Date:**	06/02/22

Data Qualifiers

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:	20-1152 BATTERY PARK	**Lab Number:**	L2224019
Project Number:	20-1152	**Report Date:**	06/02/22

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.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

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

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320 Forbes Blvd
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Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page: 1 of 1

Date Rec'd in Lab: 5/6/22

ALPHA Job #: L2224019

Client Information
Client: Metrix
Address: 333 W. 39th St, NY, NY
Phone:
Fax:
Email: bcrespi@mmwr.com

Project Information
Project Name: 20-1152 Battery Park
Project Location: Manhattan, NY
Project #: 20-1152
(Use Project name as Project #): ☐
Project Manager: Brian CreSpi
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.

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	TCL VOCs (+10)	TCL SVOCs (+20)	TCL PCBs	TCL Pesticides	TCL Herbicides	TAL Metals	Hexavalent Chromium & Cyanide	TCLP Metals & RCRA Characteristics	Sample Specific Comments	Total Bottle
24019-01	SB-04 (0-2)	5/6/22	0930	S	EW	✓									
02	COMP SB-04 (0-4)		0935	S	EW		✓	✓	✓	✓	✓	✓			
03	SB-05 (0-2)		1145	S	EW	✓									
04	COMP SB-05 (0-5)		1150	S	EW		✓	✓	✓	✓	✓	✓			
05	COMP (SB-04, SB-05)		1155	S	EW								✓		
06	SB-08 (0-2)		1230	S	EW	✓									
07	COMP SB-08 (0-5)		1240	S	EW		✓	✓	✓	✓	✓	✓			
08	COMP (SB-08)		1245	S	EW								✓		

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

Container Type															
Preservative															

Relinquished By:	Date/Time	Received By:	Date/Time
	1300 5/6/22	Luis Morales AAL	5/6/22 1300
Luis Morales AAL	5/6/22 1900	ALPHA AAL	5/6 1930
ALPHA AAL	5/6	DAN QUARLES	5/6 2130
DAN QUARLES	5/6 2350		5/6/22 2350

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)

ANALYTICAL REPORT

Lab Number:	L2224285
Client:	Matrix New World Engineering, Inc. 333 West 39th Street, Second Floor New York City, NY 10018
ATTN:	Brian Crespi
Phone:	(212) 324-4251
Project Name:	20-1152 BATTERY PARK
Project Number:	20-1152
Report Date:	05/31/22

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

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

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2224285-01	SB-01(0-2)	SOIL	MANHATTAN, NY	05/09/22 08:55	05/09/22
L2224285-02	COMP SB-01(0-4)	SOIL	MANHATTAN, NY	05/09/22 09:40	05/09/22
L2224285-03	COMP (SB-01)	SOIL	MANHATTAN, NY	05/09/22 09:45	05/09/22
L2224285-04	SB-07(0-2)	SOIL	MANHATTAN, NY	05/09/22 10:30	05/09/22
L2224285-05	SB-07(8-10)	SOIL	MANHATTAN, NY	05/09/22 11:05	05/09/22
L2224285-06	COMP SB-07(0-20)	SOIL	MANHATTAN, NY	05/09/22 11:10	05/09/22
L2224285-07	TWP-07	WATER	MANHATTAN, NY	05/09/22 11:50	05/09/22
L2224285-08	GW-DUP	WATER	MANHATTAN, NY	05/09/22 00:00	05/09/22
L2224285-09	TRIP BLANK	WATER	MANHATTAN, NY	05/09/22 00:00	05/09/22
L2224285-10	SB-06(0-2)	SOIL	MANHATTAN, NY	05/09/22 12:30	05/09/22
L2224285-11	COMP SB-06(0-5)	SOIL	MANHATTAN, NY	05/09/22 12:40	05/09/22
L2224285-12	COMP (SB-06, SB-07)	SOIL	MANHATTAN, NY	05/09/22 12:45	05/09/22

Project Name:	20-1152 BATTERY PARK	**Lab Number:**	L2224285
Project Number:	20-1152	**Report Date:**	05/31/22

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:	20-1152 BATTERY PARK	**Lab Number:**	L2224285
Project Number:	20-1152	**Report Date:**	05/31/22

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.

Volatile Organics

L2224285-01: The surrogate recovery is below the acceptance criteria for dibromofluoromethane (29%), possibly due to the matrix effect caused by the high pH of the sample (>10).

L2224285-10: The surrogate recovery is below the acceptance criteria for dibromofluoromethane (48%), possibly due to the matrix effect caused by the high pH of the sample (>10).

Semivolatile Organics

L2224285-02: The surrogate recoveries were outside the acceptance criteria for 2-fluorophenol (14%) and 2,4,6-tribromophenol (7%) ; however, re-extraction achieved similar results: 2-fluorophenol (12%) and 2,4,6-tribromophenol (5%). The results of both extractions are reported.

L2224285-11: The surrogate recoveries were outside the acceptance criteria for 2-fluorophenol (0%), phenol-d6 (1%) and 2,4,6-tribromophenol (1%) ; however, re-extraction achieved similar results: 2-fluorophenol (0%), phenol-d6 (6%) and 2,4,6-tribromophenol (1%) . The results of both extractions are reported.

The WG1638186-2/-3 LCS/LCSD recoveries, associated with L2224285-07 and -08, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Total Metals

L2224285-02 and -11: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

L2224285-07 and -08: The sample has elevated detection limits for all elements due to the prep dilution required by the sample matrix.

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224285
Project Number: 20-1152 **Report Date:** 05/31/22

Case Narrative (continued)

Dissolved Metals

L2224285-07: The sample has an elevated detection limit for mercury, due to the prep dilution required by the sample matrix.

The WG1643344-1 Method Blank, associated with L2224285-07 and -08, has a concentration above the reporting limit for copper. Since the associated sample concentrations are either greater than 10x the blank concentration or non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".

Cyanide, Total

The WG1640367-2/-3 LCS/LCSD recoveries for cyanide, total (68%/69%), associated with L2224285-02, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

Cyanide, Reactive

WG1641594: A Laboratory Duplicate was not performed due to a laboratory oversight.

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: Caitlin Walukevich

Title: Technical Director/Representative Date: 05/31/22

ORGANICS

VOLATILES

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-01
Client ID: SB-01(0-2)
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 08:55
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/16/22 19:11
Analyst: AJK
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.3	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.87	0.13	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.87	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.87	0.11	1
Dibromochloromethane	ND		ug/kg	0.87	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.87	0.23	1
Tetrachloroethene	ND		ug/kg	0.43	0.17	1
Chlorobenzene	ND		ug/kg	0.43	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.5	0.60	1
1,2-Dichloroethane	ND		ug/kg	0.87	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.43	0.14	1
Bromodichloromethane	ND		ug/kg	0.43	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.87	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	0.43	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.43	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.43	0.14	1
Bromoform	ND		ug/kg	3.5	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.43	0.14	1
Benzene	0.50		ug/kg	0.43	0.14	1
Toluene	ND		ug/kg	0.87	0.47	1
Ethylbenzene	0.34	J	ug/kg	0.87	0.12	1
Chloromethane	ND		ug/kg	3.5	0.81	1
Bromomethane	ND		ug/kg	1.7	0.50	1
Vinyl chloride	ND		ug/kg	0.87	0.29	1
Chloroethane	ND		ug/kg	1.7	0.39	1
1,1-Dichloroethene	ND		ug/kg	0.87	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224285
Project Number: 20-1152
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-01
Client ID: SB-01(0-2)
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 08:55
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.43	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.17	1
p/m-Xylene	1.1	J	ug/kg	1.7	0.49	1
o-Xylene	0.36	J	ug/kg	0.87	0.25	1
Xylenes, Total	1.5	J	ug/kg	0.87	0.25	1
cis-1,2-Dichloroethene	ND		ug/kg	0.87	0.15	1
1,2-Dichloroethene, Total	ND		ug/kg	0.87	0.12	1
Dibromomethane	ND		ug/kg	1.7	0.21	1
Styrene	ND		ug/kg	0.87	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.7	0.80	1
Acetone	100		ug/kg	8.7	4.2	1
Carbon disulfide	ND		ug/kg	8.7	4.0	1
2-Butanone	5.0	J	ug/kg	8.7	1.9	1
Vinyl acetate	ND		ug/kg	8.7	1.9	1
4-Methyl-2-pentanone	ND		ug/kg	8.7	1.1	1
1,2,3-Trichloropropane	ND		ug/kg	1.7	0.11	1
2-Hexanone	ND		ug/kg	8.7	1.0	1
Bromochloromethane	ND		ug/kg	1.7	0.18	1
2,2-Dichloropropane	ND		ug/kg	1.7	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.87	0.24	1
1,3-Dichloropropane	ND		ug/kg	1.7	0.14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.43	0.11	1
Bromobenzene	ND		ug/kg	1.7	0.13	1
n-Butylbenzene	ND		ug/kg	0.87	0.14	1
sec-Butylbenzene	ND		ug/kg	0.87	0.13	1
tert-Butylbenzene	ND		ug/kg	1.7	0.10	1
o-Chlorotoluene	ND		ug/kg	1.7	0.16	1
p-Chlorotoluene	ND		ug/kg	1.7	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.87	1
Hexachlorobutadiene	ND		ug/kg	3.5	0.15	1
Isopropylbenzene	ND		ug/kg	0.87	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.87	0.10	1
Naphthalene	0.63	J	ug/kg	3.5	0.56	1
Acrylonitrile	ND		ug/kg	3.5	1.0	1

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224285
Project Number: 20-1152
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-01
Client ID: SB-01(0-2)
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 08:55
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.87	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	0.29	1
1,4-Dioxane	ND		ug/kg	70	30.	1
p-Diethylbenzene	ND		ug/kg	1.7	0.15	1
p-Ethyltoluene	ND		ug/kg	1.7	0.33	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.7	0.16	1
Ethyl ether	ND		ug/kg	1.7	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.3	1.2	1
Tentatively Identified Compounds						
Total TIC Compounds	2.29	J	ug/kg			1
Unknown	2.29	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	**29**	Q	70-130

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-04
Client ID: SB-07(0-2)
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 10:30
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/16/22 19:38
Analyst: AJK
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.4	1.5	1
1,1-Dichloroethane	ND		ug/kg	0.67	0.10	1
Chloroform	ND		ug/kg	1.0	0.09	1
Carbon tetrachloride	ND		ug/kg	0.67	0.15	1
1,2-Dichloropropane	ND		ug/kg	0.67	0.08	1
Dibromochloromethane	ND		ug/kg	0.67	0.09	1
1,1,2-Trichloroethane	ND		ug/kg	0.67	0.18	1
Tetrachloroethene	ND		ug/kg	0.34	0.13	1
Chlorobenzene	ND		ug/kg	0.34	0.09	1
Trichlorofluoromethane	ND		ug/kg	2.7	0.46	1
1,2-Dichloroethane	ND		ug/kg	0.67	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	0.34	0.11	1
Bromodichloromethane	ND		ug/kg	0.34	0.07	1
trans-1,3-Dichloropropene	ND		ug/kg	0.67	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	0.34	0.10	1
1,3-Dichloropropene, Total	ND		ug/kg	0.34	0.10	1
1,1-Dichloropropene	ND		ug/kg	0.34	0.11	1
Bromoform	ND		ug/kg	2.7	0.16	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.34	0.11	1
Benzene	0.11	J	ug/kg	0.34	0.11	1
Toluene	ND		ug/kg	0.67	0.36	1
Ethylbenzene	0.83		ug/kg	0.67	0.09	1
Chloromethane	ND		ug/kg	2.7	0.62	1
Bromomethane	ND		ug/kg	1.3	0.39	1
Vinyl chloride	ND		ug/kg	0.67	0.22	1
Chloroethane	ND		ug/kg	1.3	0.30	1
1,1-Dichloroethene	ND		ug/kg	0.67	0.16	1
trans-1,2-Dichloroethene	ND		ug/kg	1.0	0.09	1

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-04
Client ID: SB-07(0-2)
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 10:30
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.34	0.09	1
1,2-Dichlorobenzene	ND		ug/kg	1.3	0.10	1
1,3-Dichlorobenzene	ND		ug/kg	1.3	0.10	1
1,4-Dichlorobenzene	ND		ug/kg	1.3	0.11	1
Methyl tert butyl ether	ND		ug/kg	1.3	0.13	1
p/m-Xylene	3.5		ug/kg	1.3	0.38	1
o-Xylene	1.1		ug/kg	0.67	0.20	1
Xylenes, Total	4.6		ug/kg	0.67	0.20	1
cis-1,2-Dichloroethene	ND		ug/kg	0.67	0.12	1
1,2-Dichloroethene, Total	ND		ug/kg	0.67	0.09	1
Dibromomethane	ND		ug/kg	1.3	0.16	1
Styrene	ND		ug/kg	0.67	0.13	1
Dichlorodifluoromethane	ND		ug/kg	6.7	0.61	1
Acetone	ND		ug/kg	6.7	3.2	1
Carbon disulfide	ND		ug/kg	6.7	3.0	1
2-Butanone	ND		ug/kg	6.7	1.5	1
Vinyl acetate	ND		ug/kg	6.7	1.4	1
4-Methyl-2-pentanone	ND		ug/kg	6.7	0.86	1
1,2,3-Trichloropropane	ND		ug/kg	1.3	0.09	1
2-Hexanone	ND		ug/kg	6.7	0.79	1
Bromochloromethane	ND		ug/kg	1.3	0.14	1
2,2-Dichloropropane	ND		ug/kg	1.3	0.14	1
1,2-Dibromoethane	ND		ug/kg	0.67	0.19	1
1,3-Dichloropropane	ND		ug/kg	1.3	0.11	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.34	0.09	1
Bromobenzene	ND		ug/kg	1.3	0.10	1
n-Butylbenzene	ND		ug/kg	0.67	0.11	1
sec-Butylbenzene	ND		ug/kg	0.67	0.10	1
tert-Butylbenzene	ND		ug/kg	1.3	0.08	1
o-Chlorotoluene	ND		ug/kg	1.3	0.13	1
p-Chlorotoluene	ND		ug/kg	1.3	0.07	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.0	0.67	1
Hexachlorobutadiene	ND		ug/kg	2.7	0.11	1
Isopropylbenzene	ND		ug/kg	0.67	0.07	1
p-Isopropyltoluene	ND		ug/kg	0.67	0.07	1
Naphthalene	ND		ug/kg	2.7	0.44	1
Acrylonitrile	ND		ug/kg	2.7	0.77	1

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224285
Project Number: 20-1152
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-04
Client ID: SB-07(0-2)
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 10:30
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.67	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.3	0.22	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.3	0.18	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.3	0.13	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.3	0.22	1
1,4-Dioxane	ND		ug/kg	54	24.	1
p-Diethylbenzene	ND		ug/kg	1.3	0.12	1
p-Ethyltoluene	ND		ug/kg	1.3	0.26	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.3	0.13	1
Ethyl ether	ND		ug/kg	1.3	0.23	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	3.4	0.95	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	110		70-130

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224285
Project Number: 20-1152
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-05
Client ID: SB-07(8-10)
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 11:05
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/16/22 20:05
Analyst: AJK
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.3	1.5	1
1,1-Dichloroethane	ND		ug/kg	0.66	0.10	1
Chloroform	ND		ug/kg	0.99	0.09	1
Carbon tetrachloride	ND		ug/kg	0.66	0.15	1
1,2-Dichloropropane	ND		ug/kg	0.66	0.08	1
Dibromochloromethane	ND		ug/kg	0.66	0.09	1
1,1,2-Trichloroethane	ND		ug/kg	0.66	0.18	1
Tetrachloroethene	ND		ug/kg	0.33	0.13	1
Chlorobenzene	ND		ug/kg	0.33	0.08	1
Trichlorofluoromethane	ND		ug/kg	2.6	0.46	1
1,2-Dichloroethane	ND		ug/kg	0.66	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	0.33	0.11	1
Bromodichloromethane	ND		ug/kg	0.33	0.07	1
trans-1,3-Dichloropropene	ND		ug/kg	0.66	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	0.33	0.10	1
1,3-Dichloropropene, Total	ND		ug/kg	0.33	0.10	1
1,1-Dichloropropene	ND		ug/kg	0.33	0.10	1
Bromoform	ND		ug/kg	2.6	0.16	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.33	0.11	1
Benzene	ND		ug/kg	0.33	0.11	1
Toluene	ND		ug/kg	0.66	0.36	1
Ethylbenzene	ND		ug/kg	0.66	0.09	1
Chloromethane	ND		ug/kg	2.6	0.62	1
Bromomethane	ND		ug/kg	1.3	0.38	1
Vinyl chloride	ND		ug/kg	0.66	0.22	1
Chloroethane	ND		ug/kg	1.3	0.30	1
1,1-Dichloroethene	ND		ug/kg	0.66	0.16	1
trans-1,2-Dichloroethene	ND		ug/kg	0.99	0.09	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224285

Project Number: 20-1152 **Report Date:** 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-05 Date Collected: 05/09/22 11:05

Client ID: SB-07(8-10) Date Received: 05/09/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.33	0.09	1
1,2-Dichlorobenzene	ND		ug/kg	1.3	0.10	1
1,3-Dichlorobenzene	ND		ug/kg	1.3	0.10	1
1,4-Dichlorobenzene	ND		ug/kg	1.3	0.11	1
Methyl tert butyl ether	ND		ug/kg	1.3	0.13	1
p/m-Xylene	ND		ug/kg	1.3	0.37	1
o-Xylene	ND		ug/kg	0.66	0.19	1
Xylenes, Total	ND		ug/kg	0.66	0.19	1
cis-1,2-Dichloroethene	ND		ug/kg	0.66	0.12	1
1,2-Dichloroethene, Total	ND		ug/kg	0.66	0.09	1
Dibromomethane	ND		ug/kg	1.3	0.16	1
Styrene	ND		ug/kg	0.66	0.13	1
Dichlorodifluoromethane	ND		ug/kg	6.6	0.60	1
Acetone	7.4		ug/kg	6.6	3.2	1
Carbon disulfide	ND		ug/kg	6.6	3.0	1
2-Butanone	ND		ug/kg	6.6	1.5	1
Vinyl acetate	ND		ug/kg	6.6	1.4	1
4-Methyl-2-pentanone	ND		ug/kg	6.6	0.84	1
1,2,3-Trichloropropane	ND		ug/kg	1.3	0.08	1
2-Hexanone	ND		ug/kg	6.6	0.78	1
Bromochloromethane	ND		ug/kg	1.3	0.14	1
2,2-Dichloropropane	ND		ug/kg	1.3	0.13	1
1,2-Dibromoethane	ND		ug/kg	0.66	0.18	1
1,3-Dichloropropane	ND		ug/kg	1.3	0.11	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.33	0.09	1
Bromobenzene	ND		ug/kg	1.3	0.10	1
n-Butylbenzene	ND		ug/kg	0.66	0.11	1
sec-Butylbenzene	ND		ug/kg	0.66	0.10	1
tert-Butylbenzene	ND		ug/kg	1.3	0.08	1
o-Chlorotoluene	ND		ug/kg	1.3	0.13	1
p-Chlorotoluene	ND		ug/kg	1.3	0.07	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.0	0.66	1
Hexachlorobutadiene	ND		ug/kg	2.6	0.11	1
Isopropylbenzene	ND		ug/kg	0.66	0.07	1
p-Isopropyltoluene	ND		ug/kg	0.66	0.07	1
Naphthalene	ND		ug/kg	2.6	0.43	1
Acrylonitrile	ND		ug/kg	2.6	0.76	1

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224285
Project Number: 20-1152
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-05
Client ID: SB-07(8-10)
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 11:05
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.66	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.3	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.3	0.18	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.3	0.13	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.3	0.22	1
1,4-Dioxane	ND		ug/kg	53	23.	1
p-Diethylbenzene	ND		ug/kg	1.3	0.12	1
p-Ethyltoluene	ND		ug/kg	1.3	0.25	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.3	0.13	1
Ethyl ether	ND		ug/kg	1.3	0.22	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	3.3	0.94	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND		ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	109		70-130

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-07
Client ID: TWP-07
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 11:50
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/18/22 14:10
Analyst: PD

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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	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	2.0		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

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224285

Project Number: 20-1152 **Report Date:** 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-07 Date Collected: 05/09/22 11:50

Client ID: TWP-07 Date Received: 05/09/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	0.90	J	ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
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
Vinyl acetate	ND		ug/l	5.0	1.0	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
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224285
Project Number: 20-1152
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-07
Client ID: TWP-07
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 11:50
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
Total TIC Compounds	2.34	J	ug/l			1
Unknown	2.34	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	97		70-130

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-08
Client ID: GW-DUP
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 00:00
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/18/22 14:34
Analyst: PD

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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	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	2.1		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

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224285

Project Number: 20-1152 **Report Date:** 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-08 Date Collected: 05/09/22 00:00

Client ID: GW-DUP Date Received: 05/09/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	0.96	J	ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
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
Vinyl acetate	ND		ug/l	5.0	1.0	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
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-08
Client ID: GW-DUP
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 00:00
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
Total TIC Compounds	2.43	J	ug/l			1
Unknown	2.43	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	98		70-130

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-09
Client ID: TRIP BLANK
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 00:00
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/18/22 14:59
Analyst: PD

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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	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

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224285

Project Number: 20-1152 **Report Date:** 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-09 Date Collected: 05/09/22 00:00

Client ID: TRIP BLANK Date Received: 05/09/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
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
Vinyl acetate	ND		ug/l	5.0	1.0	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
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224285
Project Number: 20-1152
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-09
Client ID: TRIP BLANK
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 00:00
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	97		70-130

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-10
Client ID: SB-06(0-2)
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 12:30
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/17/22 09:14
Analyst: AJK
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.2	1.4	1
1,1-Dichloroethane	ND		ug/kg	0.63	0.09	1
Chloroform	ND		ug/kg	0.95	0.09	1
Carbon tetrachloride	ND		ug/kg	0.63	0.14	1
1,2-Dichloropropane	ND		ug/kg	0.63	0.08	1
Dibromochloromethane	ND		ug/kg	0.63	0.09	1
1,1,2-Trichloroethane	ND		ug/kg	0.63	0.17	1
Tetrachloroethene	ND		ug/kg	0.32	0.12	1
Chlorobenzene	ND		ug/kg	0.32	0.08	1
Trichlorofluoromethane	ND		ug/kg	2.5	0.44	1
1,2-Dichloroethane	ND		ug/kg	0.63	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	0.32	0.10	1
Bromodichloromethane	ND		ug/kg	0.32	0.07	1
trans-1,3-Dichloropropene	ND		ug/kg	0.63	0.17	1
cis-1,3-Dichloropropene	ND		ug/kg	0.32	0.10	1
1,3-Dichloropropene, Total	ND		ug/kg	0.32	0.10	1
1,1-Dichloropropene	ND		ug/kg	0.32	0.10	1
Bromoform	ND		ug/kg	2.5	0.16	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.32	0.10	1
Benzene	0.87		ug/kg	0.32	0.10	1
Toluene	ND		ug/kg	0.63	0.34	1
Ethylbenzene	ND		ug/kg	0.63	0.09	1
Chloromethane	ND		ug/kg	2.5	0.59	1
Bromomethane	ND		ug/kg	1.3	0.37	1
Vinyl chloride	ND		ug/kg	0.63	0.21	1
Chloroethane	ND		ug/kg	1.3	0.28	1
1,1-Dichloroethene	ND		ug/kg	0.63	0.15	1
trans-1,2-Dichloroethene	ND		ug/kg	0.95	0.09	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224285

Project Number: 20-1152 **Report Date:** 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-10 Date Collected: 05/09/22 12:30

Client ID: SB-06(0-2) Date Received: 05/09/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.32	0.09	1
1,2-Dichlorobenzene	ND		ug/kg	1.3	0.09	1
1,3-Dichlorobenzene	ND		ug/kg	1.3	0.09	1
1,4-Dichlorobenzene	ND		ug/kg	1.3	0.11	1
Methyl tert butyl ether	ND		ug/kg	1.3	0.13	1
p/m-Xylene	ND		ug/kg	1.3	0.35	1
o-Xylene	ND		ug/kg	0.63	0.18	1
Xylenes, Total	ND		ug/kg	0.63	0.18	1
cis-1,2-Dichloroethene	ND		ug/kg	0.63	0.11	1
1,2-Dichloroethene, Total	ND		ug/kg	0.63	0.09	1
Dibromomethane	ND		ug/kg	1.3	0.15	1
Styrene	ND		ug/kg	0.63	0.12	1
Dichlorodifluoromethane	ND		ug/kg	6.3	0.58	1
Acetone	38		ug/kg	6.3	3.0	1
Carbon disulfide	ND		ug/kg	6.3	2.9	1
2-Butanone	ND		ug/kg	6.3	1.4	1
Vinyl acetate	ND		ug/kg	6.3	1.4	1
4-Methyl-2-pentanone	ND		ug/kg	6.3	0.81	1
1,2,3-Trichloropropane	ND		ug/kg	1.3	0.08	1
2-Hexanone	ND		ug/kg	6.3	0.74	1
Bromochloromethane	ND		ug/kg	1.3	0.13	1
2,2-Dichloropropane	ND		ug/kg	1.3	0.13	1
1,2-Dibromoethane	ND		ug/kg	0.63	0.18	1
1,3-Dichloropropane	ND		ug/kg	1.3	0.10	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.32	0.08	1
Bromobenzene	ND		ug/kg	1.3	0.09	1
n-Butylbenzene	ND		ug/kg	0.63	0.10	1
sec-Butylbenzene	ND		ug/kg	0.63	0.09	1
tert-Butylbenzene	ND		ug/kg	1.3	0.07	1
o-Chlorotoluene	ND		ug/kg	1.3	0.12	1
p-Chlorotoluene	ND		ug/kg	1.3	0.07	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.9	0.63	1
Hexachlorobutadiene	ND		ug/kg	2.5	0.11	1
Isopropylbenzene	ND		ug/kg	0.63	0.07	1
p-Isopropyltoluene	ND		ug/kg	0.63	0.07	1
Naphthalene	ND		ug/kg	2.5	0.41	1
Acrylonitrile	ND		ug/kg	2.5	0.73	1

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224285
Project Number: 20-1152
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-10
Client ID: SB-06(0-2)
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 12:30
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.63	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.3	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.3	0.17	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.3	0.12	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.3	0.21	1
1,4-Dioxane	ND		ug/kg	50	22.	1
p-Diethylbenzene	ND		ug/kg	1.3	0.11	1
p-Ethyltoluene	ND		ug/kg	1.3	0.24	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.3	0.12	1
Ethyl ether	ND		ug/kg	1.3	0.22	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	3.2	0.90	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg		1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	**48**	Q	70-130

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/16/22 12:26
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,04-05 Batch: WG1639464-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.98	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

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/16/22 12:26
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,04-05 Batch: WG1639464-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/16/22 12:26
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,04-05 Batch: WG1639464-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/16/22 12:26
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,04-05 Batch: WG1639464-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	102		70-130

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/17/22 08:49
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1639901-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.94	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

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/17/22 08:49
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1639901-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/17/22 08:49
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1639901-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	0.35	J	ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	0.20	J	ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Tentatively Identified Compounds

Total TIC Compounds	8.36	J	ug/kg
Unknown 1	2.22	J	ug/kg
Unknown 2	6.14	J	ug/kg

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/17/22 08:49
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1639901-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	99		70-130

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/18/22 10:11
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-09 Batch: WG1640839-5					
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
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
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

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/18/22 10:11
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-09 Batch: WG1640839-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
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
Vinyl acetate	ND		ug/l	5.0	1.0
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
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/18/22 10:11
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-09 Batch: WG1640839-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/18/22 10:11
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-09 Batch: WG1640839-5					

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

Lab Control Sample Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,04-05 Batch: WG1639464-3 WG1639464-4								
Methylene chloride	81		80		70-130	1		30
1,1-Dichloroethane	91		90		70-130	1		30
Chloroform	84		82		70-130	2		30
Carbon tetrachloride	74		74		70-130	0		30
1,2-Dichloropropane	90		90		70-130	0		30
Dibromochloromethane	87		92		70-130	6		30
1,1,2-Trichloroethane	90		94		70-130	4		30
Tetrachloroethene	84		85		70-130	1		30
Chlorobenzene	85		86		70-130	1		30
Trichlorofluoromethane	92		93		70-139	1		30
1,2-Dichloroethane	87		90		70-130	3		30
1,1,1-Trichloroethane	79		79		70-130	0		30
Bromodichloromethane	84		86		70-130	2		30
trans-1,3-Dichloropropene	84		89		70-130	6		30
cis-1,3-Dichloropropene	85		87		70-130	2		30
1,1-Dichloropropene	92		88		70-130	4		30
Bromoform	**69**	Q	70		70-130	1		30
1,1,2,2-Tetrachloroethane	95		100		70-130	5		30
Benzene	86		85		70-130	1		30
Toluene	83		84		70-130	1		30
Ethylbenzene	84		84		70-130	0		30
Chloromethane	91		87		52-130	4		30
Bromomethane	82		86		57-147	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,04-05 Batch: WG1639464-3 WG1639464-4								
Vinyl chloride	102		97		67-130	5		30
Chloroethane	121		123		50-151	2		30
1,1-Dichloroethene	**27**	Q	**26**	Q	65-135	4		30
trans-1,2-Dichloroethene	84		82		70-130	2		30
Trichloroethene	82		79		70-130	4		30
1,2-Dichlorobenzene	88		85		70-130	3		30
1,3-Dichlorobenzene	89		86		70-130	3		30
1,4-Dichlorobenzene	88		84		70-130	5		30
Methyl tert butyl ether	78		82		66-130	5		30
p/m-Xylene	85		85		70-130	0		30
o-Xylene	84		86		70-130	2		30
cis-1,2-Dichloroethene	80		79		70-130	1		30
Dibromomethane	85		87		70-130	2		30
Styrene	85		85		70-130	0		30
Dichlorodifluoromethane	68		65		30-146	5		30
Acetone	104		114		54-140	9		30
Carbon disulfide	**27**	Q	**26**	Q	59-130	4		30
2-Butanone	95		116		70-130	20		30
Vinyl acetate	92		100		70-130	8		30
4-Methyl-2-pentanone	84		89		70-130	6		30
1,2,3-Trichloropropane	93		93		68-130	0		30
2-Hexanone	91		103		70-130	12		30
Bromochloromethane	87		87		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,04-05 Batch: WG1639464-3 WG1639464-4								
2,2-Dichloropropane	73		72		70-130	1		30
1,2-Dibromoethane	83		91		70-130	9		30
1,3-Dichloropropane	92		94		69-130	2		30
1,1,1,2-Tetrachloroethane	84		88		70-130	5		30
Bromobenzene	86		83		70-130	4		30
n-Butylbenzene	96		90		70-130	6		30
sec-Butylbenzene	92		87		70-130	6		30
tert-Butylbenzene	89		86		70-130	3		30
o-Chlorotoluene	92		87		70-130	6		30
p-Chlorotoluene	94		88		70-130	7		30
1,2-Dibromo-3-chloropropane	78		83		68-130	6		30
Hexachlorobutadiene	80		77		67-130	4		30
Isopropylbenzene	91		86		70-130	6		30
p-Isopropyltoluene	90		86		70-130	5		30
Naphthalene	90		91		70-130	1		30
Acrylonitrile	102		101		70-130	1		30
n-Propylbenzene	93		88		70-130	6		30
1,2,3-Trichlorobenzene	85		83		70-130	2		30
1,2,4-Trichlorobenzene	85		81		70-130	5		30
1,3,5-Trimethylbenzene	89		85		70-130	5		30
1,2,4-Trimethylbenzene	91		87		70-130	4		30
1,4-Dioxane	93		103		65-136	10		30
p-Diethylbenzene	91		87		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,04-05 Batch: WG1639464-3 WG1639464-4								
p-Ethyltoluene	91		87		70-130	4		30
1,2,4,5-Tetramethylbenzene	89		85		70-130	5		30
Ethyl ether	105		107		67-130	2		30
trans-1,4-Dichloro-2-butene	100		101		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		100		70-130
Toluene-d8	104		106		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	97		94		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1639901-3 WG1639901-4								
Methylene chloride	87		85		70-130	2		30
1,1-Dichloroethane	100		100		70-130	0		30
Chloroform	83		84		70-130	1		30
Carbon tetrachloride	94		93		70-130	1		30
1,2-Dichloropropane	105		107		70-130	2		30
Dibromochloromethane	90		92		70-130	2		30
1,1,2-Trichloroethane	87		88		70-130	1		30
Tetrachloroethene	93		95		70-130	2		30
Chlorobenzene	91		93		70-130	2		30
Trichlorofluoromethane	98		95		70-139	3		30
1,2-Dichloroethane	102		104		70-130	2		30
1,1,1-Trichloroethane	89		88		70-130	1		30
Bromodichloromethane	84		85		70-130	1		30
trans-1,3-Dichloropropene	95		98		70-130	3		30
cis-1,3-Dichloropropene	91		94		70-130	3		30
1,1-Dichloropropene	90		90		70-130	0		30
Bromoform	87		86		70-130	1		30
1,1,2,2-Tetrachloroethane	92		92		70-130	0		30
Benzene	86		86		70-130	0		30
Toluene	92		92		70-130	0		30
Ethylbenzene	94		96		70-130	2		30
Chloromethane	107		104		52-130	3		30
Bromomethane	97		92		57-147	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1639901-3 WG1639901-4								
Vinyl chloride	88		86		67-130	2		30
Chloroethane	84		80		50-151	5		30
1,1-Dichloroethene	87		85		65-135	2		30
trans-1,2-Dichloroethene	86		84		70-130	2		30
Trichloroethene	89		90		70-130	1		30
1,2-Dichlorobenzene	99		100		70-130	1		30
1,3-Dichlorobenzene	102		102		70-130	0		30
1,4-Dichlorobenzene	100		100		70-130	0		30
Methyl tert butyl ether	82		82		66-130	0		30
p/m-Xylene	96		97		70-130	1		30
o-Xylene	95		97		70-130	2		30
cis-1,2-Dichloroethene	84		83		70-130	1		30
Dibromomethane	83		86		70-130	4		30
Styrene	93		95		70-130	2		30
Dichlorodifluoromethane	70		66		30-146	6		30
Acetone	116		116		54-140	0		30
Carbon disulfide	74		72		59-130	3		30
2-Butanone	107		115		70-130	7		30
Vinyl acetate	126		124		70-130	2		30
4-Methyl-2-pentanone	**137**	Q	**135**	Q	70-130	1		30
1,2,3-Trichloropropane	95		97		68-130	2		30
2-Hexanone	121		125		70-130	3		30
Bromochloromethane	82		84		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1639901-3 WG1639901-4								
2,2-Dichloropropane	90		89		70-130	1		30
1,2-Dibromoethane	96		97		70-130	1		30
1,3-Dichloropropane	91		93		69-130	2		30
1,1,1,2-Tetrachloroethane	96		97		70-130	1		30
Bromobenzene	97		98		70-130	1		30
n-Butylbenzene	111		110		70-130	1		30
sec-Butylbenzene	105		106		70-130	1		30
tert-Butylbenzene	103		103		70-130	0		30
o-Chlorotoluene	107		105		70-130	2		30
p-Chlorotoluene	104		104		70-130	0		30
1,2-Dibromo-3-chloropropane	89		94		68-130	5		30
Hexachlorobutadiene	83		83		67-130	0		30
Isopropylbenzene	103		103		70-130	0		30
p-Isopropyltoluene	104		105		70-130	1		30
Naphthalene	92		91		70-130	1		30
Acrylonitrile	112		114		70-130	2		30
n-Propylbenzene	105		106		70-130	1		30
1,2,3-Trichlorobenzene	87		88		70-130	1		30
1,2,4-Trichlorobenzene	93		93		70-130	0		30
1,3,5-Trimethylbenzene	103		103		70-130	0		30
1,2,4-Trimethylbenzene	103		103		70-130	0		30
1,4-Dioxane	108		110		65-136	2		30
p-Diethylbenzene	105		106		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1639901-3 WG1639901-4								
p-Ethyltoluene	106		106		70-130	0		30
1,2,4,5-Tetramethylbenzene	105		105		70-130	0		30
Ethyl ether	72		70		67-130	3		30
trans-1,4-Dichloro-2-butene	130		130		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		106		70-130
Toluene-d8	103		103		70-130
4-Bromofluorobenzene	108		109		70-130
Dibromofluoromethane	96		94		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-09 Batch: WG1640839-3 WG1640839-4								
Methylene chloride	110		100		70-130	10		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	100		110		70-130	10		20
Dibromochloromethane	96		97		63-130	1		20
1,1,2-Trichloroethane	100		99		70-130	1		20
Tetrachloroethene	100		99		70-130	1		20
Chlorobenzene	100		99		75-130	1		20
Trichlorofluoromethane	100		110		62-150	10		20
1,2-Dichloroethane	110		100		70-130	10		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	100		110		67-130	10		20
trans-1,3-Dichloropropene	100		99		70-130	1		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
1,1-Dichloropropene	110		100		70-130	10		20
Bromoform	91		94		54-136	3		20
1,1,2,2-Tetrachloroethane	94		96		67-130	2		20
Benzene	110		110		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	90		86		64-130	5		20
Bromomethane	65		66		39-139	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-09 Batch: WG1640839-3 WG1640839-4								
Vinyl chloride	110		110		55-140	0		20
Chloroethane	110		110		55-138	0		20
1,1-Dichloroethene	110		100		61-145	10		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	110		100		70-130	10		20
1,2-Dichlorobenzene	97		96		70-130	1		20
1,3-Dichlorobenzene	97		96		70-130	1		20
1,4-Dichlorobenzene	98		96		70-130	2		20
Methyl tert butyl ether	99		99		63-130	0		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	91		94		64-130	3		20
Acrylonitrile	110		100		70-130	10		20
Styrene	100		95		70-130	5		20
Dichlorodifluoromethane	100		100		36-147	0		20
Acetone	93		94		58-148	1		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	92		93		63-138	1		20
Vinyl acetate	110		110		70-130	0		20
4-Methyl-2-pentanone	86		93		59-130	8		20
2-Hexanone	88		92		57-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-09 Batch: WG1640839-3 WG1640839-4								
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	110		110		63-133	0		20
1,2-Dibromoethane	97		97		70-130	0		20
1,3-Dichloropropane	98		98		70-130	0		20
1,1,1,2-Tetrachloroethane	98		97		64-130	1		20
Bromobenzene	97		96		70-130	1		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	100		98		70-130	2		20
o-Chlorotoluene	100		100		70-130	0		20
p-Chlorotoluene	100		99		70-130	1		20
1,2-Dibromo-3-chloropropane	78		83		41-144	6		20
Hexachlorobutadiene	99		99		63-130	0		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	100		98		70-130	2		20
Naphthalene	84		90		70-130	7		20
n-Propylbenzene	100		100		69-130	0		20
1,2,3-Trichlorobenzene	88		91		70-130	3		20
1,2,4-Trichlorobenzene	92		93		70-130	1		20
1,3,5-Trimethylbenzene	100		97		64-130	3		20
1,2,4-Trimethylbenzene	100		98		70-130	2		20
1,4-Dioxane	110		102		56-162	8		20
p-Diethylbenzene	100		98		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-09 Batch: WG1640839-3 WG1640839-4								
p-Ethyltoluene	100		99		70-130	1		20
1,2,4,5-Tetramethylbenzene	96		94		70-130	2		20
Ethyl ether	100		100		59-134	0		20
trans-1,4-Dichloro-2-butene	94		96		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		98		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	102		102		70-130
Dibromofluoromethane	99		101		70-130

SEMIVOLATILES

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-02
Client ID: COMP SB-01(0-4)
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 09:40
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/16/22 20:37
Analyst: SZ
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 05/15/22 07:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	20	J	ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	35.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	280		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	29	J	ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-02
Client ID: COMP SB-01(0-4)
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 09:40
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	160		ug/kg	100	20.	1
Benzo(a)pyrene	170		ug/kg	140	42.	1
Benzo(b)fluoranthene	200		ug/kg	100	29.	1
Benzo(k)fluoranthene	57	J	ug/kg	100	28.	1
Chrysene	140		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	58	J	ug/kg	100	34.	1
Benzo(ghi)perylene	120	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	170		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	28	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	140		ug/kg	140	24.	1
Pyrene	270		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	22.	1
4-Chloroaniline	ND		ug/kg	170	32.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	380	65.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	830	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224285
Project Number: 20-1152
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-02
Client ID: COMP SB-01(0-4)
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 09:40
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	180	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	20	J	ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	8.0	1
Tentatively Identified Compounds						
Total TIC Compounds	863	J	ug/kg			1
Unknown Alkane	154	J	ug/kg			1
Unknown PAH	285	J	ug/kg			1
Unknown Alkane	146	J	ug/kg			1
Unknown Alkane	139	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**14**	Q	25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	**7**	Q	10-136
4-Terphenyl-d14	64		18-120

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-02 RE
Client ID: COMP SB-01(0-4)
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 09:40
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/23/22 17:40
Analyst: IM
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 05/23/22 11:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	62	J	ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	700		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	24	J	ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224285

Project Number: 20-1152 **Report Date:** 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-02 RE
Client ID: COMP SB-01(0-4)
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 09:40
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	400		ug/kg	100	19.	1
Benzo(a)pyrene	340		ug/kg	140	42.	1
Benzo(b)fluoranthene	370		ug/kg	100	29.	1
Benzo(k)fluoranthene	160		ug/kg	100	28.	1
Chrysene	360		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	140		ug/kg	100	34.	1
Benzo(ghi)perylene	220		ug/kg	140	20.	1
Fluorene	61	J	ug/kg	170	17.	1
Phenanthrene	550		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	58	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	250		ug/kg	140	24.	1
Pyrene	620		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	22.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	29	J	ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	82.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224285

Project Number: 20-1152 **Report Date:** 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-02 RE
Client ID: COMP SB-01(0-4)
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 09:40
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	53	J	ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1
Tentatively Identified Compounds						
Total TIC Compounds	555	J	ug/kg			1
Unknown	303	J	ug/kg			1
Unknown PAH	252	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**12**	Q	25-120
Phenol-d6	48		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	**5**	Q	10-136
4-Terphenyl-d14	52		18-120

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-07
Client ID: TWP-07
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 11:50
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 05/16/22 13:18
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 05/13/22 16:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
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

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224285

Project Number: 20-1152 **Report Date:** 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-07 Date Collected: 05/09/22 11:50

Client ID: TWP-07 Date Received: 05/09/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
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
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Tentatively Identified Compounds						
Total TIC Compounds	43.1	J	ug/l			1
Unknown	2.22	J	ug/l			1
Unknown Organic Acid	8.69	J	ug/l			1
Unknown Alkane	3.20	J	ug/l			1
Unknown	2.65	J	ug/l			1
Unknown Alkane	4.18	J	ug/l			1
Cyclic Octaatomic Sulfur	7.78	NJ	ug/l			1
Unknown Organic Acid	14.4	J	ug/l			1

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224285
Project Number: 20-1152
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-07
Client ID: TWP-07
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 11:50
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		21-120
Phenol-d6	51		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	71		41-149

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-07
Client ID: TWP-07
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 11:50
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/14/22 17:39
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 05/13/22 16:25

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	0.02	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	0.02	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.02	J	ug/l	0.10	0.01	1
Fluorene	0.02	J	ug/l	0.10	0.01	1
Phenanthrene	0.06	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: 20-1152 BATTERY PARK **Lab Number:** L2224285

Project Number: 20-1152 **Report Date:** 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-07 Date Collected: 05/09/22 11:50

Client ID: TWP-07 Date Received: 05/09/22

Sample Location: MANHATTAN, 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	67		21-120
Phenol-d6	55		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	102		10-120
4-Terphenyl-d14	79		41-149

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-08
Client ID: GW-DUP
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 00:00
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 05/16/22 13:41
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 05/13/22 16:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
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

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224285

Project Number: 20-1152 **Report Date:** 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-08 Date Collected: 05/09/22 00:00

Client ID: GW-DUP Date Received: 05/09/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
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
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Tentatively Identified Compounds						
Total TIC Compounds	53.9	J	ug/l			1
Unknown	2.44	J	ug/l			1
Unknown Organic Acid	17.8	J	ug/l			1
Unknown Organic Acid	29.4	J	ug/l			1
Cyclic Octaatomic Sulfur	4.22	NJ	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	81		10-120
4-Terphenyl-d14	71		41-149

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-08
Client ID: GW-DUP
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 00:00
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/14/22 17:56
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 05/13/22 16:25

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	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224285

Project Number: 20-1152 **Report Date:** 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-08 Date Collected: 05/09/22 00:00

Client ID: GW-DUP Date Received: 05/09/22

Sample Location: MANHATTAN, 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	60		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	96		10-120
4-Terphenyl-d14	79		41-149

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-11
Client ID: COMP SB-06(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 12:40
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/16/22 21:01
Analyst: SZ
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 05/15/22 07:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	120	J	ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	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	2700		ug/kg	110	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	29.	1
Isophorone	80	J	ug/kg	160	23.	1
Naphthalene	78	J	ug/kg	180	22.	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	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224285

Project Number: 20-1152 **Report Date:** 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-11 Date Collected: 05/09/22 12:40

Client ID: COMP SB-06(0-5) Date Received: 05/09/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	1400		ug/kg	110	20.	1
Benzo(a)pyrene	1300		ug/kg	140	43.	1
Benzo(b)fluoranthene	1600		ug/kg	110	30.	1
Benzo(k)fluoranthene	470		ug/kg	110	28.	1
Chrysene	1300		ug/kg	110	18.	1
Acenaphthylene	90	J	ug/kg	140	27.	1
Anthracene	460		ug/kg	110	34.	1
Benzo(ghi)perylene	800		ug/kg	140	21.	1
Fluorene	140	J	ug/kg	180	17.	1
Phenanthrene	1700		ug/kg	110	21.	1
Dibenzo(a,h)anthracene	190		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	940		ug/kg	140	25.	1
Pyrene	2400		ug/kg	110	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	94	J	ug/kg	180	17.	1
2-Methylnaphthalene	43	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	110	34.	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	850	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	28.	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224285

Project Number: 20-1152 **Report Date:** 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-11 Date Collected: 05/09/22 12:40

Client ID: COMP SB-06(0-5) Date Received: 05/09/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	88	J	ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.1	1
Tentatively Identified Compounds						
Total TIC Compounds	4380	J	ug/kg			1
Unknown	170	J	ug/kg			1
Unknown PAH	170	J	ug/kg			1
Unknown	163	J	ug/kg			1
Unknown PAH	862	J	ug/kg			1
Unknown PAH	248	J	ug/kg			1
Unknown PAH	152	J	ug/kg			1
Unknown PAH	512	J	ug/kg			1
Unknown PAH	315	J	ug/kg			1
Unknown PAH	205	J	ug/kg			1
Unknown Ketone	312	J	ug/kg			1
Unknown PAH	292	J	ug/kg			1
Unknown	320	J	ug/kg			1
Unknown	431	J	ug/kg			1
Unknown PAH	226	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**0**	Q	25-120
Phenol-d6	**1**	Q	10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	**1**	Q	10-136
4-Terphenyl-d14	60		18-120

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-11 RE
Client ID: COMP SB-06(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 12:40
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/25/22 07:23
Analyst: SZ
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 05/23/22 11:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	86	J	ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	1500		ug/kg	110	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	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	43	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224285

Project Number: 20-1152 **Report Date:** 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-11 RE
Client ID: COMP SB-06(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 12:40
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	810		ug/kg	110	20.	1
Benzo(a)pyrene	820		ug/kg	140	44.	1
Benzo(b)fluoranthene	960		ug/kg	110	30.	1
Benzo(k)fluoranthene	260		ug/kg	110	29.	1
Chrysene	790		ug/kg	110	19.	1
Acenaphthylene	79	J	ug/kg	140	28.	1
Anthracene	270		ug/kg	110	35.	1
Benzo(ghi)perylene	500		ug/kg	140	21.	1
Fluorene	84	J	ug/kg	180	17.	1
Phenanthrene	980		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	120		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	560		ug/kg	140	25.	1
Pyrene	1500		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	23.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	53	J	ug/kg	180	17.	1
2-Methylnaphthalene	27	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	390	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	86.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224285

Project Number: 20-1152 **Report Date:** 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-11 RE
Client ID: COMP SB-06(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 12:40
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	63	J	ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1
Tentatively Identified Compounds						
Total TIC Compounds	2000	J	ug/kg			1
Unknown PAH	553	J	ug/kg			1
Unknown	223	J	ug/kg			1
Unknown	386	J	ug/kg			1
Unknown	272	J	ug/kg			1
Unknown PAH	159	J	ug/kg			1
Unknown PAH	215	J	ug/kg			1
Unknown PAH	188	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**0**	Q	25-120
Phenol-d6	**6**	Q	10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	**1**	Q	10-136
4-Terphenyl-d14	61		18-120

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/14/22 16:44
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 05/13/22 10:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG1638186-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
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
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
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

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/14/22 16:44
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 05/13/22 10:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG1638186-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
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
2-Methylnaphthalene	ND		ug/l	2.0	0.45
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
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

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/14/22 16:44
Analyst: CMM

Extraction Method: EPA 3510C
Extraction Date: 05/13/22 10:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG1638186-1					
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
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	51		15-120
2,4,6-Tribromophenol	60		10-120
4-Terphenyl-d14	66		41-149

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 05/14/22 11:58
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 05/13/22 10:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 07-08 Batch: WG1638188-1					
Acenaphthene	0.01	J	ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	0.03	J	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	0.02	J	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	0.02	J	ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	0.02	J	ug/l	0.10	0.01
Phenanthrene	0.03	J	ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	0.04	J	ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 05/14/22 11:58
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 05/13/22 10:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 07-08 Batch: WG1638188-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	51		15-120
2,4,6-Tribromophenol	67		10-120
4-Terphenyl-d14	69		41-149

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/16/22 14:41
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 05/15/22 07:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,11 Batch: WG1638578-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	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.

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/16/22 14:41
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 05/15/22 07:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,11 Batch: WG1638578-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
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	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	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.

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/16/22 14:41
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 05/15/22 07:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,11 Batch: WG1638578-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	76.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	87		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	97		10-136
4-Terphenyl-d14	85		18-120

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/23/22 09:18
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 05/22/22 16:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,11 Batch: WG1641476-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
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	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/23/22 09:18
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 05/22/22 16:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,11 Batch: WG1641476-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	22.
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	69.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/23/22 09:18
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 05/22/22 16:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,11 Batch: WG1641476-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	77		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG1638186-2 WG1638186-3								
Acenaphthene	62		67		37-111	8		30
1,2,4-Trichlorobenzene	45		49		39-98	9		30
Hexachlorobenzene	63		66		40-140	5		30
Bis(2-chloroethyl)ether	63		66		40-140	5		30
2-Chloronaphthalene	55		57		40-140	4		30
1,2-Dichlorobenzene	40		47		40-140	16		30
1,3-Dichlorobenzene	**39**	Q	44		40-140	12		30
1,4-Dichlorobenzene	39		44		36-97	12		30
3,3'-Dichlorobenzidine	66		66		40-140	0		30
2,4-Dinitrotoluene	82		85		48-143	4		30
2,6-Dinitrotoluene	83		84		40-140	1		30
Fluoranthene	70		72		40-140	3		30
4-Chlorophenyl phenyl ether	62		67		40-140	8		30
4-Bromophenyl phenyl ether	65		66		40-140	2		30
Bis(2-chloroisopropyl)ether	58		62		40-140	7		30
Bis(2-chloroethoxy)methane	65		69		40-140	6		30
Hexachlorobutadiene	**38**	Q	45		40-140	17		30
Hexachlorocyclopentadiene	**29**	Q	**37**	Q	40-140	24		30
Hexachloroethane	**39**	Q	40		40-140	3		30
Isophorone	62		65		40-140	5		30
Naphthalene	53		55		40-140	4		30
Nitrobenzene	70		75		40-140	7		30
NDPA/DPA	71		71		40-140	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG1638186-2 WG1638186-3								
n-Nitrosodi-n-propylamine	66		68		29-132	3		30
Bis(2-ethylhexyl)phthalate	75		75		40-140	0		30
Butyl benzyl phthalate	73		75		40-140	3		30
Di-n-butylphthalate	70		75		40-140	7		30
Di-n-octylphthalate	76		76		40-140	0		30
Diethyl phthalate	70		74		40-140	6		30
Dimethyl phthalate	68		71		40-140	4		30
Benzo(a)anthracene	73		75		40-140	3		30
Benzo(a)pyrene	76		78		40-140	3		30
Benzo(b)fluoranthene	76		77		40-140	1		30
Benzo(k)fluoranthene	77		80		40-140	4		30
Chrysene	76		77		40-140	1		30
Acenaphthylene	61		66		45-123	8		30
Anthracene	69		69		40-140	0		30
Benzo(ghi)perylene	75		76		40-140	1		30
Fluorene	66		72		40-140	9		30
Phenanthrene	70		69		40-140	1		30
Dibenzo(a,h)anthracene	78		77		40-140	1		30
Indeno(1,2,3-cd)pyrene	76		79		40-140	4		30
Pyrene	70		71		26-127	1		30
Biphenyl	60		64		40-140	6		30
4-Chloroaniline	52		68		40-140	27		30
2-Nitroaniline	86		86		52-143	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG1638186-2 WG1638186-3								
3-Nitroaniline	77		88		25-145	13		30
4-Nitroaniline	80		82		51-143	2		30
Dibenzofuran	66		71		40-140	7		30
2-Methylnaphthalene	51		58		40-140	13		30
1,2,4,5-Tetrachlorobenzene	47		50		2-134	6		30
Acetophenone	66		68		39-129	3		30
2,4,6-Trichlorophenol	72		75		30-130	4		30
p-Chloro-m-cresol	74		72		23-97	3		30
2-Chlorophenol	68		73		27-123	7		30
2,4-Dichlorophenol	72		79		30-130	9		30
2,4-Dimethylphenol	67		70		30-130	4		30
2-Nitrophenol	83		85		30-130	2		30
4-Nitrophenol	73		**81**	Q	10-80	10		30
2,4-Dinitrophenol	70		74		20-130	6		30
4,6-Dinitro-o-cresol	76		81		20-164	6		30
Pentachlorophenol	50		55		9-103	10		30
Phenol	52		56		12-110	7		30
2-Methylphenol	67		73		30-130	9		30
3-Methylphenol/4-Methylphenol	72		76		30-130	5		30
2,4,5-Trichlorophenol	74		80		30-130	8		30
Benzoic Acid	**0**	Q	**0**	Q	10-164	NC		30
Benzyl Alcohol	63		71		26-116	12		30
Carbazole	73		74		55-144	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG1638186-2 WG1638186-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	64		68		21-120
Phenol-d6	52		53		10-120
Nitrobenzene-d5	73		74		23-120
2-Fluorobiphenyl	55		55		15-120
2,4,6-Tribromophenol	75		84		10-120
4-Terphenyl-d14	70		69		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 07-08 Batch: WG1638188-2 WG1638188-3								
Acenaphthene	58		76		40-140	27		40
2-Chloronaphthalene	56		72		40-140	25		40
Fluoranthene	61		73		40-140	18		40
Hexachlorobutadiene	47		61		40-140	26		40
Naphthalene	52		70		40-140	30		40
Benzo(a)anthracene	60		74		40-140	21		40
Benzo(a)pyrene	55		66		40-140	18		40
Benzo(b)fluoranthene	64		78		40-140	20		40
Benzo(k)fluoranthene	62		76		40-140	20		40
Chrysene	62		76		40-140	20		40
Acenaphthylene	50		65		40-140	26		40
Anthracene	59		74		40-140	23		40
Benzo(ghi)perylene	64		77		40-140	18		40
Fluorene	59		75		40-140	24		40
Phenanthrene	60		74		40-140	21		40
Dibenzo(a,h)anthracene	67		81		40-140	19		40
Indeno(1,2,3-cd)pyrene	67		79		40-140	16		40
Pyrene	61		74		40-140	19		40
2-Methylnaphthalene	53		71		40-140	29		40
Pentachlorophenol	50		50		40-140	0		40
Hexachlorobenzene	63		77		40-140	20		40
Hexachloroethane	46		64		40-140	33		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 07-08 Batch: WG1638188-2 WG1638188-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	47		60		21-120
Phenol-d6	41		50		10-120
Nitrobenzene-d5	52		72		23-120
2-Fluorobiphenyl	49		64		15-120
2,4,6-Tribromophenol	68		80		10-120
4-Terphenyl-d14	58		70		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,11 Batch: WG1638578-2 WG1638578-3								
Acenaphthene	81		76		31-137	6		50
1,2,4-Trichlorobenzene	78		71		38-107	9		50
Hexachlorobenzene	85		78		40-140	9		50
Bis(2-chloroethyl)ether	73		67		40-140	9		50
2-Chloronaphthalene	81		76		40-140	6		50
1,2-Dichlorobenzene	76		71		40-140	7		50
1,3-Dichlorobenzene	76		70		40-140	8		50
1,4-Dichlorobenzene	74		69		28-104	7		50
3,3'-Dichlorobenzidine	70		64		40-140	9		50
2,4-Dinitrotoluene	83		77		40-132	8		50
2,6-Dinitrotoluene	82		78		40-140	5		50
Fluoranthene	85		77		40-140	10		50
4-Chlorophenyl phenyl ether	82		77		40-140	6		50
4-Bromophenyl phenyl ether	86		80		40-140	7		50
Bis(2-chloroisopropyl)ether	76		71		40-140	7		50
Bis(2-chloroethoxy)methane	75		69		40-117	8		50
Hexachlorobutadiene	77		75		40-140	3		50
Hexachlorocyclopentadiene	82		80		40-140	2		50
Hexachloroethane	69		63		40-140	9		50
Isophorone	72		64		40-140	12		50
Naphthalene	78		74		40-140	5		50
Nitrobenzene	74		68		40-140	8		50
NDPA/DPA	86		80		36-157	7		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,11 Batch: WG1638578-2 WG1638578-3								
n-Nitrosodi-n-propylamine	72		66		32-121	9		50
Bis(2-ethylhexyl)phthalate	84		77		40-140	9		50
Butyl benzyl phthalate	78		70		40-140	11		50
Di-n-butylphthalate	83		75		40-140	10		50
Di-n-octylphthalate	82		75		40-140	9		50
Diethyl phthalate	76		71		40-140	7		50
Dimethyl phthalate	78		74		40-140	5		50
Benzo(a)anthracene	85		77		40-140	10		50
Benzo(a)pyrene	85		78		40-140	9		50
Benzo(b)fluoranthene	88		80		40-140	10		50
Benzo(k)fluoranthene	79		73		40-140	8		50
Chrysene	83		75		40-140	10		50
Acenaphthylene	84		79		40-140	6		50
Anthracene	86		77		40-140	11		50
Benzo(ghi)perylene	80		73		40-140	9		50
Fluorene	84		77		40-140	9		50
Phenanthrene	84		76		40-140	10		50
Dibenzo(a,h)anthracene	82		74		40-140	10		50
Indeno(1,2,3-cd)pyrene	94		86		40-140	9		50
Pyrene	83		75		35-142	10		50
Biphenyl	81		76		37-127	6		50
4-Chloroaniline	69		64		40-140	8		50
2-Nitroaniline	80		77		47-134	4		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,11 Batch: WG1638578-2 WG1638578-3								
3-Nitroaniline	72		66		26-129	9		50
4-Nitroaniline	80		74		41-125	8		50
Dibenzofuran	82		78		40-140	5		50
2-Methylnaphthalene	82		78		40-140	5		50
1,2,4,5-Tetrachlorobenzene	84		79		40-117	6		50
Acetophenone	73		68		14-144	7		50
2,4,6-Trichlorophenol	86		81		30-130	6		50
p-Chloro-m-cresol	79		76		26-103	4		50
2-Chlorophenol	81		74		25-102	9		50
2,4-Dichlorophenol	86		77		30-130	11		50
2,4-Dimethylphenol	77		69		30-130	11		50
2-Nitrophenol	77		70		30-130	10		50
4-Nitrophenol	74		67		11-114	10		50
2,4-Dinitrophenol	79		71		4-130	11		50
4,6-Dinitro-o-cresol	78		73		10-130	7		50
Pentachlorophenol	74		70		17-109	6		50
Phenol	81		74		26-90	9		50
2-Methylphenol	83		73		30-130.	13		50
3-Methylphenol/4-Methylphenol	81		73		30-130	10		50
2,4,5-Trichlorophenol	87		79		30-130	10		50
Benzoic Acid	53		45		10-110	16		50
Benzyl Alcohol	77		71		40-140	8		50
Carbazole	83		77		54-128	8		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,11 Batch: WG1638578-2 WG1638578-3								
1,4-Dioxane	56		52		40-140	7		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	78		72		25-120
Phenol-d6	80		74		10-120
Nitrobenzene-d5	70		63		23-120
2-Fluorobiphenyl	79		74		30-120
2,4,6-Tribromophenol	88		80		10-136
4-Terphenyl-d14	80		72		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,11 Batch: WG1641476-2 WG1641476-3								
Acenaphthene	89		109		31-137	20		50
1,2,4-Trichlorobenzene	79		100		38-107	23		50
Hexachlorobenzene	92		113		40-140	20		50
Bis(2-chloroethyl)ether	75		92		40-140	20		50
2-Chloronaphthalene	85		108		40-140	24		50
1,2-Dichlorobenzene	79		94		40-140	17		50
1,3-Dichlorobenzene	80		93		40-140	15		50
1,4-Dichlorobenzene	78		92		28-104	16		50
3,3'-Dichlorobenzidine	85		95		40-140	11		50
2,4-Dinitrotoluene	94		111		40-132	17		50
2,6-Dinitrotoluene	94		117		40-140	22		50
Fluoranthene	94		116		40-140	21		50
4-Chlorophenyl phenyl ether	89		109		40-140	20		50
4-Bromophenyl phenyl ether	95		114		40-140	18		50
Bis(2-chloroisopropyl)ether	83		100		40-140	19		50
Bis(2-chloroethoxy)methane	81		98		40-117	19		50
Hexachlorobutadiene	80		100		40-140	22		50
Hexachlorocyclopentadiene	89		112		40-140	23		50
Hexachloroethane	71		86		40-140	19		50
Isophorone	77		94		40-140	20		50
Naphthalene	82		100		40-140	20		50
Nitrobenzene	76		93		40-140	20		50
NDPA/DPA	97		117		36-157	19		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,11 Batch: WG1641476-2 WG1641476-3								
n-Nitrosodi-n-propylamine	77		95		32-121	21		50
Bis(2-ethylhexyl)phthalate	96		116		40-140	19		50
Butyl benzyl phthalate	89		110		40-140	21		50
Di-n-butylphthalate	95		116		40-140	20		50
Di-n-octylphthalate	93		112		40-140	19		50
Diethyl phthalate	89		108		40-140	19		50
Dimethyl phthalate	92		112		40-140	20		50
Benzo(a)anthracene	94		113		40-140	18		50
Benzo(a)pyrene	93		112		40-140	19		50
Benzo(b)fluoranthene	91		109		40-140	18		50
Benzo(k)fluoranthene	90		111		40-140	21		50
Chrysene	91		110		40-140	19		50
Acenaphthylene	93		113		40-140	19		50
Anthracene	94		117		40-140	22		50
Benzo(ghi)perylene	90		111		40-140	21		50
Fluorene	92		114		40-140	21		50
Phenanthrene	92		113		40-140	20		50
Dibenzo(a,h)anthracene	92		112		40-140	20		50
Indeno(1,2,3-cd)pyrene	103		127		40-140	21		50
Pyrene	94		116		35-142	21		50
Biphenyl	88		110		37-127	22		50
4-Chloroaniline	75		83		40-140	10		50
2-Nitroaniline	92		115		47-134	22		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,11 Batch: WG1641476-2 WG1641476-3								
3-Nitroaniline	85		94		26-129	10		50
4-Nitroaniline	85		103		41-125	19		50
Dibenzofuran	92		110		40-140	18		50
2-Methylnaphthalene	88		109		40-140	21		50
1,2,4,5-Tetrachlorobenzene	87		112		40-117	25		50
Acetophenone	77		96		14-144	22		50
2,4,6-Trichlorophenol	93		115		30-130	21		50
p-Chloro-m-cresol	91		**112**	Q	26-103	21		50
2-Chlorophenol	82		102		25-102	22		50
2,4-Dichlorophenol	91		112		30-130	21		50
2,4-Dimethylphenol	84		101		30-130	18		50
2-Nitrophenol	79		97		30-130	20		50
4-Nitrophenol	80		98		11-114	20		50
2,4-Dinitrophenol	88		109		4-130	21		50
4,6-Dinitro-o-cresol	91		109		10-130	18		50
Pentachlorophenol	85		105		17-109	21		50
Phenol	85		**99**	Q	26-90	15		50
2-Methylphenol	88		104		30-130.	17		50
3-Methylphenol/4-Methylphenol	87		108		30-130	22		50
2,4,5-Trichlorophenol	99		123		30-130	22		50
Benzoic Acid	78		99		10-110	24		50
Benzyl Alcohol	84		99		40-140	16		50
Carbazole	93		114		54-128	20		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,11 Batch: WG1641476-2 WG1641476-3								
1,4-Dioxane	69		74		40-140	7		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	78		93		25-120
Phenol-d6	81		97		10-120
Nitrobenzene-d5	73		87		23-120
2-Fluorobiphenyl	85		104		30-120
2,4,6-Tribromophenol	93		110		10-136
4-Terphenyl-d14	87		105		18-120

PCBS

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-02
Client ID: COMP SB-01(0-4)
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 09:40
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/16/22 10:39
Analyst: MEO
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 05/13/22 05:58
Cleanup Method: EPA 3665A
Cleanup Date: 05/14/22
Cleanup Method: EPA 3665A
Cleanup Date: 05/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.0	3.02	1	A
Aroclor 1221	ND		ug/kg	34.0	3.41	1	A
Aroclor 1232	ND		ug/kg	34.0	7.21	1	A
Aroclor 1242	ND		ug/kg	34.0	4.59	1	A
Aroclor 1248	ND		ug/kg	34.0	5.10	1	A
Aroclor 1254	34.8		ug/kg	34.0	3.72	1	B
Aroclor 1260	ND		ug/kg	34.0	6.29	1	A
Aroclor 1262	ND		ug/kg	34.0	4.32	1	A
Aroclor 1268	ND		ug/kg	34.0	3.52	1	A
PCBs, Total	34.8		ug/kg	34.0	3.02	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	98		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224285
Project Number: 20-1152
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-07
Client ID: TWP-07
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 11:50
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 05/21/22 13:02
Analyst: JM

Extraction Method: EPA 3510C
Extraction Date: 05/20/22 16:08
Cleanup Method: EPA 3665A
Cleanup Date: 05/21/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/21/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-08
Client ID: GW-DUP
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 00:00
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 05/21/22 11:14
Analyst: JM

Extraction Method: EPA 3510C
Extraction Date: 05/20/22 12:12
Cleanup Method: EPA 3665A
Cleanup Date: 05/20/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/20/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	B
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-11
Client ID: COMP SB-06(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 12:40
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/16/22 10:52
Analyst: MEO
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 05/13/22 05:58
Cleanup Method: EPA 3665A
Cleanup Date: 05/14/22
Cleanup Method: EPA 3665A
Cleanup Date: 05/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.8	3.09	1	A
Aroclor 1221	ND		ug/kg	34.8	3.49	1	A
Aroclor 1232	ND		ug/kg	34.8	7.38	1	A
Aroclor 1242	ND		ug/kg	34.8	4.69	1	A
Aroclor 1248	ND		ug/kg	34.8	5.22	1	A
Aroclor 1254	ND		ug/kg	34.8	3.81	1	A
Aroclor 1260	8.29	J	ug/kg	34.8	6.43	1	B
Aroclor 1262	ND		ug/kg	34.8	4.42	1	A
Aroclor 1268	ND		ug/kg	34.8	3.60	1	A
PCBs, Total	8.29	J	ug/kg	34.8	3.09	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/13/22 17:21
Analyst: ER

Extraction Method: EPA 3546
Extraction Date: 05/12/22 21:34
Cleanup Method: EPA 3665A
Cleanup Date: 05/13/22
Cleanup Method: EPA 3665A
Cleanup Date: 05/13/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02,11 Batch: WG1637963-1						
Aroclor 1016	ND		ug/kg	31.9	2.83	A
Aroclor 1221	ND		ug/kg	31.9	3.19	A
Aroclor 1232	ND		ug/kg	31.9	6.76	A
Aroclor 1242	ND		ug/kg	31.9	4.30	A
Aroclor 1248	ND		ug/kg	31.9	4.78	A
Aroclor 1254	ND		ug/kg	31.9	3.49	A
Aroclor 1260	ND		ug/kg	31.9	5.89	A
Aroclor 1262	ND		ug/kg	31.9	4.05	A
Aroclor 1268	ND		ug/kg	31.9	3.30	A
PCBs, Total	ND		ug/kg	31.9	2.83	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/21/22 10:49
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 05/20/22 12:12
Cleanup Method: EPA 3665A
Cleanup Date: 05/20/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/20/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 08 Batch: WG1641016-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	110		30-150	A
Decachlorobiphenyl	109		30-150	A
2,4,5,6-Tetrachloro-m-xylene	106		30-150	B
Decachlorobiphenyl	115		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/21/22 12:29
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 05/20/22 16:08
Cleanup Method: EPA 3665A
Cleanup Date: 05/21/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/21/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 07 Batch: WG1641086-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	99		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02,11 Batch: WG1637963-2 WG1637963-3									
Aroclor 1016	62		65		40-140	5		50	A
Aroclor 1260	54		55		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		62		30-150	A
Decachlorobiphenyl	61		62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		62		30-150	B
Decachlorobiphenyl	55		56		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 08 Batch: WG1641016-2 WG1641016-3									
Aroclor 1016	99		97		40-140	2		50	A
Aroclor 1260	99		96		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	108		102		30-150	A
Decachlorobiphenyl	95		103		30-150	A
2,4,5,6-Tetrachloro-m-xylene	99		96		30-150	B
Decachlorobiphenyl	105		103		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 07 Batch: WG1641086-2 WG1641086-3									
Aroclor 1016	97		95		40-140	2		50	A
Aroclor 1260	97		95		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		98		30-150	A
Decachlorobiphenyl	101		101		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		93		30-150	B
Decachlorobiphenyl	104		105		30-150	B

PESTICIDES

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-02
Client ID: COMP SB-01(0-4)
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 09:40
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/16/22 12:17
Analyst: MMG
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 05/13/22 02:11
Cleanup Method: EPA 3620B
Cleanup Date: 05/14/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/16/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.64	0.321	1	A
Lindane	ND		ug/kg	0.682	0.305	1	A
Alpha-BHC	ND		ug/kg	0.682	0.194	1	A
Beta-BHC	ND		ug/kg	1.64	0.621	1	A
Heptachlor	ND		ug/kg	0.819	0.367	1	A
Aldrin	ND		ug/kg	1.64	0.576	1	A
Heptachlor epoxide	ND		ug/kg	3.07	0.921	1	A
Endrin	ND		ug/kg	0.682	0.280	1	A
Endrin aldehyde	ND		ug/kg	2.05	0.716	1	A
Endrin ketone	ND		ug/kg	1.64	0.422	1	A
Dieldrin	ND		ug/kg	1.02	0.512	1	A
4,4'-DDE	ND	IP	ug/kg	1.64	0.379	1	B
4,4'-DDD	ND		ug/kg	1.64	0.584	1	A
4,4'-DDT	ND		ug/kg	3.07	1.32	1	A
Endosulfan I	ND		ug/kg	1.64	0.387	1	A
Endosulfan II	ND		ug/kg	1.64	0.547	1	A
Endosulfan sulfate	ND		ug/kg	0.682	0.325	1	A
Methoxychlor	ND		ug/kg	3.07	0.955	1	A
Toxaphene	ND		ug/kg	30.7	8.60	1	A
cis-Chlordane	ND		ug/kg	2.05	0.570	1	A
trans-Chlordane	ND		ug/kg	2.05	0.540	1	A
Chlordane	ND		ug/kg	13.6	5.42	1	A

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224285
Project Number: 20-1152
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-02
Client ID: COMP SB-01(0-4)
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 09:40
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	55		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-02
Client ID: COMP SB-01(0-4)
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 09:40
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/12/22 14:31
Analyst: AKM
Percent Solids: 95%
Methylation Date: 05/12/22 07:43

Extraction Method: EPA 8151A
Extraction Date: 05/11/22 07:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	172	10.9	1	A
2,4,5-T	ND		ug/kg	172	5.35	1	A
2,4,5-TP (Silvex)	ND		ug/kg	172	4.59	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	100		30-150	A
DCAA	86		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-07
Client ID: TWP-07
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 11:50
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 05/15/22 13:52
Analyst: AKM

Extraction Method: EPA 3510C
Extraction Date: 05/13/22 15:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224285
Project Number: 20-1152
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-07
Client ID: TWP-07
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 11:50
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	38		30-150	A
Decachlorobiphenyl	37		30-150	A
2,4,5,6-Tetrachloro-m-xylene	45		30-150	B
Decachlorobiphenyl	45		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-07
Client ID: TWP-07
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 11:50
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 05/14/22 13:30
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 05/13/22 07:30

Methylation Date: 05/14/22 00:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	106		30-150	A
DCAA	99		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-08
Client ID: GW-DUP
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 00:00
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 05/15/22 14:03
Analyst: AKM

Extraction Method: EPA 3510C
Extraction Date: 05/13/22 15:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224285
Project Number: 20-1152
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-08
Client ID: GW-DUP
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 00:00
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	43		30-150	A
Decachlorobiphenyl	36		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	46		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-08
Client ID: GW-DUP
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 00:00
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 05/14/22 13:49
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 05/13/22 07:30

Methylation Date: 05/14/22 00:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	112		30-150	A
DCAA	103		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-11
Client ID: COMP SB-06(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 12:40
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/16/22 12:30
Analyst: MMG
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 05/13/22 02:11
Cleanup Method: EPA 3620B
Cleanup Date: 05/14/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/16/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.63	0.320	1	A
Lindane	ND		ug/kg	0.681	0.304	1	A
Alpha-BHC	ND		ug/kg	0.681	0.193	1	A
Beta-BHC	ND		ug/kg	1.63	0.620	1	A
Heptachlor	ND		ug/kg	0.817	0.366	1	A
Aldrin	ND		ug/kg	1.63	0.576	1	A
Heptachlor epoxide	ND		ug/kg	3.06	0.919	1	A
Endrin	ND		ug/kg	0.681	0.279	1	A
Endrin aldehyde	ND		ug/kg	2.04	0.715	1	A
Endrin ketone	ND		ug/kg	1.63	0.421	1	A
Dieldrin	0.740	J	ug/kg	1.02	0.511	1	B
4,4'-DDE	1.82		ug/kg	1.63	0.378	1	A
4,4'-DDD	0.588	J	ug/kg	1.63	0.583	1	B
4,4'-DDT	3.42	IP	ug/kg	3.06	1.31	1	B
Endosulfan I	ND		ug/kg	1.63	0.386	1	A
Endosulfan II	ND		ug/kg	1.63	0.546	1	A
Endosulfan sulfate	ND		ug/kg	0.681	0.324	1	A
Methoxychlor	ND		ug/kg	3.06	0.954	1	A
Toxaphene	ND		ug/kg	30.6	8.58	1	A
cis-Chlordane	2.79		ug/kg	2.04	0.569	1	A
trans-Chlordane	3.53	IP	ug/kg	2.04	0.539	1	B
Chlordane	31.1		ug/kg	13.6	5.41	1	A

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224285
Project Number: 20-1152
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-11
Client ID: COMP SB-06(0-5)
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 12:40
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-11
Client ID: COMP SB-06(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 12:40
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/12/22 14:49
Analyst: AKM
Percent Solids: 92%
Methylation Date: 05/12/22 07:43

Extraction Method: EPA 8151A
Extraction Date: 05/11/22 07:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	178	11.2	1	A
2,4,5-T	ND		ug/kg	178	5.52	1	A
2,4,5-TP (Silvex)	ND		ug/kg	178	4.73	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	84		30-150	A
DCAA	71		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 05/12/22 12:05
Analyst: AKM

Extraction Method: EPA 8151A
Extraction Date: 05/11/22 07:29

Methylation Date: 05/12/22 07:43

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 02,11 Batch: WG1637009-1						
2,4-D	ND		ug/kg	166	10.4	A
2,4,5-T	ND		ug/kg	166	5.13	A
2,4,5-TP (Silvex)	ND		ug/kg	166	4.40	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	92		30-150	A
DCAA	85		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/14/22 16:02
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 05/13/22 02:31
Cleanup Method: EPA 3620B
Cleanup Date: 05/14/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02,11 Batch: WG1637995-1						
Delta-BHC	ND		ug/kg	1.56	0.306	A
Lindane	ND		ug/kg	0.652	0.291	A
Alpha-BHC	ND		ug/kg	0.652	0.185	A
Beta-BHC	ND		ug/kg	1.56	0.593	A
Heptachlor	ND		ug/kg	0.782	0.351	A
Aldrin	ND		ug/kg	1.56	0.551	A
Heptachlor epoxide	ND		ug/kg	2.93	0.880	A
Endrin	ND		ug/kg	0.652	0.267	A
Endrin aldehyde	ND		ug/kg	1.96	0.684	A
Endrin ketone	ND		ug/kg	1.56	0.403	A
Dieldrin	ND		ug/kg	0.978	0.489	A
4,4'-DDE	ND		ug/kg	1.56	0.362	A
4,4'-DDD	ND		ug/kg	1.56	0.558	A
4,4'-DDT	ND		ug/kg	2.93	1.26	A
Endosulfan I	ND		ug/kg	1.56	0.370	A
Endosulfan II	ND		ug/kg	1.56	0.523	A
Endosulfan sulfate	ND		ug/kg	0.652	0.310	A
Methoxychlor	ND		ug/kg	2.93	0.913	A
Toxaphene	ND		ug/kg	29.3	8.21	A
cis-Chlordane	ND		ug/kg	1.96	0.545	A
trans-Chlordane	ND		ug/kg	1.96	0.516	A
Chlordane	ND		ug/kg	13.0	5.18	A

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/14/22 16:02
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 05/13/22 02:31
Cleanup Method: EPA 3620B
Cleanup Date: 05/14/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02,11 Batch: WG1637995-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	88		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 05/14/22 12:34
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 05/13/22 07:30

Methylation Date: 05/14/22 00:53

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 07-08 Batch: WG1638060-1						
2,4-D	ND		ug/l	10.0	0.498	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	127		30-150	A
DCAA	107		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/15/22 13:19
Analyst: AKM

Extraction Method: EPA 3510C
Extraction Date: 05/13/22 15:59

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 07-08 Batch: WG1638321-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/15/22 13:19
Analyst: AKM

Extraction Method: EPA 3510C
Extraction Date: 05/13/22 15:59

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 07-08 Batch: WG1638321-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	83		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 02,11 Batch: WG1637009-2 WG1637009-3									
2,4-D	89		87		30-150	2		30	A
2,4,5-T	89		87		30-150	2		30	A
2,4,5-TP (Silvex)	90		86		30-150	5		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	96		92		30-150	A
DCAA	92		91		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02,11 Batch: WG1637995-2 WG1637995-3									
Delta-BHC	70		78		30-150	11		30	A
Lindane	70		79		30-150	12		30	A
Alpha-BHC	71		80		30-150	12		30	A
Beta-BHC	67		77		30-150	14		30	A
Heptachlor	74		83		30-150	11		30	A
Aldrin	69		80		30-150	15		30	A
Heptachlor epoxide	58		62		30-150	7		30	A
Endrin	70		80		30-150	13		30	A
Endrin aldehyde	60		66		30-150	10		30	A
Endrin ketone	70		76		30-150	8		30	A
Dieldrin	73		82		30-150	12		30	A
4,4'-DDE	67		76		30-150	13		30	A
4,4'-DDD	74		84		30-150	13		30	A
4,4'-DDT	70		80		30-150	13		30	A
Endosulfan I	64		72		30-150	12		30	A
Endosulfan II	69		79		30-150	14		30	A
Endosulfan sulfate	53		60		30-150	12		30	A
Methoxychlor	73		82		30-150	12		30	A
cis-Chlordane	62		70		30-150	12		30	A
trans-Chlordane	81		89		30-150	9		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02,11 Batch: WG1637995-2 WG1637995-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		72		30-150	A
Decachlorobiphenyl	76		86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		82		30-150	B
Decachlorobiphenyl	77		88		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 07-08 Batch: WG1638060-2 WG1638060-3									
2,4-D	104		103		30-150	1		25	A
2,4,5-T	92		92		30-150	0		25	A
2,4,5-TP (Silvex)	94		92		30-150	2		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	119		117		30-150	A
DCAA	122		120		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07-08 Batch: WG1638321-2 WG1638321-3									
Delta-BHC	56		62		30-150	10		20	A
Lindane	66		76		30-150	14		20	A
Alpha-BHC	65		73		30-150	11		20	A
Beta-BHC	64		70		30-150	9		20	A
Heptachlor	63		70		30-150	11		20	A
Aldrin	57		62		30-150	8		20	A
Heptachlor epoxide	61		66		30-150	8		20	A
Endrin	65		72		30-150	10		20	A
Endrin aldehyde	54		63		30-150	15		20	A
Endrin ketone	73		68		30-150	6		20	A
Dieldrin	66		71		30-150	7		20	A
4,4'-DDE	59		63		30-150	7		20	A
4,4'-DDD	66		71		30-150	9		20	A
4,4'-DDT	66		70		30-150	6		20	A
Endosulfan I	60		65		30-150	9		20	A
Endosulfan II	63		67		30-150	6		20	A
Endosulfan sulfate	64		70		30-150	9		20	A
Methoxychlor	68		76		30-150	12		20	A
cis-Chlordane	52		55		30-150	5		20	A
trans-Chlordane	62		65		30-150	5		20	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07-08 Batch: WG1638321-2 WG1638321-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		60		30-150	A
Decachlorobiphenyl	74		79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		62		30-150	B
Decachlorobiphenyl	85		90		30-150	B

METALS

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224285
Project Number: 20-1152
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-02
Client ID: COMP SB-01(0-4)
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 09:40
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2110		mg/kg	8.24	2.22	2	05/23/22 05:50	05/25/22 11:01	EPA 3050B	1,6010D	SB
Antimony, Total	ND		mg/kg	4.12	0.313	2	05/23/22 05:50	05/25/22 11:01	EPA 3050B	1,6010D	SB
Arsenic, Total	1.66		mg/kg	0.824	0.171	2	05/23/22 05:50	05/25/22 11:01	EPA 3050B	1,6010D	SB
Barium, Total	46.4		mg/kg	0.824	0.143	2	05/23/22 05:50	05/25/22 11:01	EPA 3050B	1,6010D	SB
Beryllium, Total	0.124	J	mg/kg	0.412	0.027	2	05/23/22 05:50	05/25/22 11:01	EPA 3050B	1,6010D	SB
Cadmium, Total	0.173	J	mg/kg	0.824	0.081	2	05/23/22 05:50	05/25/22 11:01	EPA 3050B	1,6010D	SB
Calcium, Total	9930		mg/kg	8.24	2.88	2	05/23/22 05:50	05/25/22 11:01	EPA 3050B	1,6010D	SB
Chromium, Total	6.80		mg/kg	0.824	0.079	2	05/23/22 05:50	05/25/22 11:01	EPA 3050B	1,6010D	SB
Cobalt, Total	2.42		mg/kg	1.65	0.137	2	05/23/22 05:50	05/25/22 11:01	EPA 3050B	1,6010D	SB
Copper, Total	12.2		mg/kg	0.824	0.213	2	05/23/22 05:50	05/25/22 11:01	EPA 3050B	1,6010D	SB
Iron, Total	5310		mg/kg	4.12	0.744	2	05/23/22 05:50	05/25/22 11:01	EPA 3050B	1,6010D	SB
Lead, Total	49.1		mg/kg	4.12	0.221	2	05/23/22 05:50	05/25/22 11:01	EPA 3050B	1,6010D	SB
Magnesium, Total	2830		mg/kg	8.24	1.27	2	05/23/22 05:50	05/25/22 11:01	EPA 3050B	1,6010D	SB
Manganese, Total	84.3		mg/kg	0.824	0.131	2	05/23/22 05:50	05/25/22 11:01	EPA 3050B	1,6010D	SB
Mercury, Total	0.102		mg/kg	0.067	0.044	1	05/23/22 08:15	05/23/22 14:40	EPA 7471B	1,7471B	DMB
Nickel, Total	7.65		mg/kg	2.06	0.199	2	05/23/22 05:50	05/25/22 11:01	EPA 3050B	1,6010D	SB
Potassium, Total	634		mg/kg	206	11.9	2	05/23/22 05:50	05/25/22 11:01	EPA 3050B	1,6010D	SB
Selenium, Total	ND		mg/kg	1.65	0.213	2	05/23/22 05:50	05/25/22 11:01	EPA 3050B	1,6010D	SB
Silver, Total	ND		mg/kg	0.824	0.233	2	05/23/22 05:50	05/25/22 11:01	EPA 3050B	1,6010D	SB
Sodium, Total	72.9	J	mg/kg	165	2.60	2	05/23/22 05:50	05/25/22 11:01	EPA 3050B	1,6010D	SB
Thallium, Total	ND		mg/kg	1.65	0.260	2	05/23/22 05:50	05/25/22 11:01	EPA 3050B	1,6010D	SB
Vanadium, Total	9.43		mg/kg	0.824	0.167	2	05/23/22 05:50	05/25/22 11:01	EPA 3050B	1,6010D	SB
Zinc, Total	51.4		mg/kg	4.12	0.241	2	05/23/22 05:50	05/25/22 11:01	EPA 3050B	1,6010D	SB

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224285
Project Number: 20-1152
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-03
Client ID: COMP (SB-01)
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 09:45
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
TCLP/SPLP Ext. Date: 05/10/22 04:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	05/22/22 11:34	05/25/22 19:29	EPA 3015	1,6010D	EW
Barium, TCLP	0.504		mg/l	0.500	0.021	1	05/22/22 11:34	05/25/22 19:29	EPA 3015	1,6010D	EW
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/22/22 11:34	05/25/22 19:29	EPA 3015	1,6010D	EW
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/22/22 11:34	05/25/22 19:29	EPA 3015	1,6010D	EW
Lead, TCLP	0.469	J	mg/l	0.500	0.027	1	05/22/22 11:34	05/25/22 19:29	EPA 3015	1,6010D	EW
Mercury, TCLP	0.0013		mg/l	0.0010	0.0005	1	05/28/22 07:17	05/29/22 09:14	EPA 7470A	1,7470A	AW
Selenium, TCLP	ND		mg/l	0.500	0.035	1	05/22/22 11:34	05/25/22 19:29	EPA 3015	1,6010D	EW
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/22/22 11:34	05/25/22 19:29	EPA 3015	1,6010D	EW

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224285
Project Number: 20-1152
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-06
Client ID: COMP SB-07(0-20)
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 11:10
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
TCLP/SPLP Ext. Date: 05/10/22 04:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	05/22/22 11:34	05/25/22 19:33	EPA 3015	1,6010D	EW
Barium, TCLP	0.417	J	mg/l	0.500	0.021	1	05/22/22 11:34	05/25/22 19:33	EPA 3015	1,6010D	EW
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/22/22 11:34	05/25/22 19:33	EPA 3015	1,6010D	EW
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/22/22 11:34	05/25/22 19:33	EPA 3015	1,6010D	EW
Lead, TCLP	0.284	J	mg/l	0.500	0.027	1	05/22/22 11:34	05/25/22 19:33	EPA 3015	1,6010D	EW
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	05/28/22 07:17	05/29/22 09:04	EPA 7470A	1,7470A	AW
Selenium, TCLP	ND		mg/l	0.500	0.035	1	05/22/22 11:34	05/25/22 19:33	EPA 3015	1,6010D	EW
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/22/22 11:34	05/25/22 19:33	EPA 3015	1,6010D	EW

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-07
Client ID: TWP-07
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Water

Date Collected: 05/09/22 11:50
Date Received: 05/09/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	132.		mg/l	0.0500	0.0164	1	05/27/22 20:44	05/30/22 15:26	EPA 3005A	1,6020B	WP
Antimony, Total	ND		mg/l	0.02000	0.00214	1	05/27/22 20:44	05/30/22 15:26	EPA 3005A	1,6020B	WP
Arsenic, Total	0.05922		mg/l	0.00250	0.00082	1	05/27/22 20:44	05/30/22 15:26	EPA 3005A	1,6020B	WP
Barium, Total	1.772		mg/l	0.00250	0.00086	1	05/27/22 20:44	05/30/22 15:26	EPA 3005A	1,6020B	WP
Beryllium, Total	0.01012		mg/l	0.00250	0.00053	1	05/27/22 20:44	05/30/22 15:26	EPA 3005A	1,6020B	WP
Cadmium, Total	0.00087	J	mg/l	0.00100	0.00029	1	05/27/22 20:44	05/30/22 15:26	EPA 3005A	1,6020B	WP
Calcium, Total	156.		mg/l	0.500	0.197	1	05/27/22 20:44	05/30/22 15:26	EPA 3005A	1,6020B	WP
Chromium, Total	0.2593		mg/l	0.00500	0.00089	1	05/27/22 20:44	05/30/22 15:26	EPA 3005A	1,6020B	WP
Cobalt, Total	0.1496		mg/l	0.00250	0.00081	1	05/27/22 20:44	05/30/22 15:26	EPA 3005A	1,6020B	WP
Copper, Total	0.5396		mg/l	0.00500	0.00192	1	05/27/22 20:44	05/30/22 15:26	EPA 3005A	1,6020B	WP
Iron, Total	240.		mg/l	0.250	0.0955	1	05/27/22 20:44	05/30/22 15:26	EPA 3005A	1,6020B	WP
Lead, Total	0.3052		mg/l	0.00500	0.00171	1	05/27/22 20:44	05/30/22 15:26	EPA 3005A	1,6020B	WP
Magnesium, Total	151.		mg/l	0.350	0.121	1	05/27/22 20:44	05/30/22 15:26	EPA 3005A	1,6020B	WP
Manganese, Total	9.196		mg/l	0.00500	0.00220	1	05/27/22 20:44	05/30/22 15:26	EPA 3005A	1,6020B	WP
Mercury, Total	0.00053	J	mg/l	0.00100	0.00045	1	05/27/22 22:55	05/28/22 14:45	EPA 7470A	1,7470A	DR
Nickel, Total	0.5159		mg/l	0.01000	0.00278	1	05/27/22 20:44	05/30/22 15:26	EPA 3005A	1,6020B	WP
Potassium, Total	63.6		mg/l	0.500	0.154	1	05/27/22 20:44	05/30/22 15:26	EPA 3005A	1,6020B	WP
Selenium, Total	0.0705		mg/l	0.0250	0.00865	1	05/27/22 20:44	05/30/22 15:26	EPA 3005A	1,6020B	WP
Silver, Total	ND		mg/l	0.00200	0.00081	1	05/27/22 20:44	05/30/22 15:26	EPA 3005A	1,6020B	WP
Sodium, Total	1460		mg/l	0.500	0.146	1	05/27/22 20:44	05/30/22 15:26	EPA 3005A	1,6020B	WP
Thallium, Total	0.00284	J	mg/l	0.00500	0.00071	1	05/27/22 20:44	05/30/22 15:26	EPA 3005A	1,6020B	WP
Vanadium, Total	0.3273		mg/l	0.02500	0.00785	1	05/27/22 20:44	05/30/22 15:26	EPA 3005A	1,6020B	WP
Zinc, Total	0.5521		mg/l	0.05000	0.01705	1	05/27/22 20:44	05/30/22 15:26	EPA 3005A	1,6020B	WP
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00756	J	mg/l	0.0100	0.00327	1	05/27/22 09:27	05/29/22 17:13	EPA 3005A	1,6020B	WP
Antimony, Dissolved	0.00053	J	mg/l	0.00400	0.00042	1	05/27/22 09:27	05/29/22 17:13	EPA 3005A	1,6020B	WP
Arsenic, Dissolved	0.00401		mg/l	0.00050	0.00016	1	05/27/22 09:27	05/29/22 17:13	EPA 3005A	1,6020B	WP
Barium, Dissolved	0.3278		mg/l	0.00050	0.00017	1	05/27/22 09:27	05/29/22 17:13	EPA 3005A	1,6020B	WP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/27/22 09:27	05/29/22 17:13	EPA 3005A	1,6020B	WP

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224285
Project Number: 20-1152
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-07
Client ID: TWP-07
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 11:50
Date Received: 05/09/22
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
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/27/22 09:27	05/29/22 17:13	EPA 3005A	1,6020B	WP
Calcium, Dissolved	149.		mg/l	0.100	0.0394	1	05/27/22 09:27	05/29/22 17:13	EPA 3005A	1,6020B	WP
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	05/27/22 09:27	05/29/22 17:13	EPA 3005A	1,6020B	WP
Cobalt, Dissolved	0.00218		mg/l	0.00050	0.00016	1	05/27/22 09:27	05/29/22 17:13	EPA 3005A	1,6020B	WP
Copper, Dissolved	0.00046	JB	mg/l	0.00100	0.00038	1	05/27/22 09:27	05/29/22 17:13	EPA 3005A	1,6020B	WP
Iron, Dissolved	0.0316	J	mg/l	0.0500	0.0191	1	05/27/22 09:27	05/29/22 17:13	EPA 3005A	1,6020B	WP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/27/22 09:27	05/29/22 17:13	EPA 3005A	1,6020B	WP
Magnesium, Dissolved	110.		mg/l	0.0700	0.0242	1	05/27/22 09:27	05/29/22 17:13	EPA 3005A	1,6020B	WP
Manganese, Dissolved	3.100		mg/l	0.00100	0.00044	1	05/27/22 09:27	05/29/22 17:13	EPA 3005A	1,6020B	WP
Mercury, Dissolved	ND		mg/l	0.00040	0.00018	1	05/27/22 11:20	05/27/22 15:16	EPA 7470A	1,7470A	AW
Nickel, Dissolved	0.00362		mg/l	0.00200	0.00055	1	05/27/22 09:27	05/29/22 17:13	EPA 3005A	1,6020B	WP
Potassium, Dissolved	62.3		mg/l	0.100	0.0309	1	05/27/22 09:27	05/29/22 17:13	EPA 3005A	1,6020B	WP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	05/27/22 09:27	05/29/22 17:13	EPA 3005A	1,6020B	WP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/27/22 09:27	05/29/22 17:13	EPA 3005A	1,6020B	WP
Sodium, Dissolved	1280		mg/l	1.00	0.293	10	05/27/22 09:27	05/29/22 18:21	EPA 3005A	1,6020B	WP
Thallium, Dissolved	0.00014	J	mg/l	0.00100	0.00014	1	05/27/22 09:27	05/29/22 17:13	EPA 3005A	1,6020B	WP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/27/22 09:27	05/29/22 17:13	EPA 3005A	1,6020B	WP
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	05/27/22 09:27	05/29/22 17:13	EPA 3005A	1,6020B	WP

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224285
Project Number: 20-1152
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-08
Client ID: GW-DUP
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 00:00
Date Received: 05/09/22
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	101.		mg/l	0.0200	0.00654	1	05/27/22 20:44	05/30/22 15:31	EPA 3005A	1,6020B	WP
Antimony, Total	ND		mg/l	0.00800	0.00085	1	05/27/22 20:44	05/30/22 15:31	EPA 3005A	1,6020B	WP
Arsenic, Total	0.03741		mg/l	0.00100	0.00033	1	05/27/22 20:44	05/30/22 15:31	EPA 3005A	1,6020B	WP
Barium, Total	1.532		mg/l	0.00100	0.00034	1	05/27/22 20:44	05/30/22 15:31	EPA 3005A	1,6020B	WP
Beryllium, Total	0.00829		mg/l	0.00100	0.00021	1	05/27/22 20:44	05/30/22 15:31	EPA 3005A	1,6020B	WP
Cadmium, Total	0.00073		mg/l	0.00040	0.00011	1	05/27/22 20:44	05/30/22 15:31	EPA 3005A	1,6020B	WP
Calcium, Total	142.		mg/l	0.200	0.0788	1	05/27/22 20:44	05/30/22 15:31	EPA 3005A	1,6020B	WP
Chromium, Total	0.1871		mg/l	0.00200	0.00035	1	05/27/22 20:44	05/30/22 15:31	EPA 3005A	1,6020B	WP
Cobalt, Total	0.1208		mg/l	0.00100	0.00032	1	05/27/22 20:44	05/30/22 15:31	EPA 3005A	1,6020B	WP
Copper, Total	0.4114		mg/l	0.00200	0.00076	1	05/27/22 20:44	05/30/22 15:31	EPA 3005A	1,6020B	WP
Iron, Total	223.		mg/l	0.100	0.0382	1	05/27/22 20:44	05/30/22 15:31	EPA 3005A	1,6020B	WP
Lead, Total	0.2577		mg/l	0.00200	0.00068	1	05/27/22 20:44	05/30/22 15:31	EPA 3005A	1,6020B	WP
Magnesium, Total	163.		mg/l	0.140	0.0484	1	05/27/22 20:44	05/30/22 15:31	EPA 3005A	1,6020B	WP
Manganese, Total	9.452		mg/l	0.00200	0.00088	1	05/27/22 20:44	05/30/22 15:31	EPA 3005A	1,6020B	WP
Mercury, Total	0.00048	J	mg/l	0.00100	0.00045	1	05/27/22 22:55	05/28/22 14:48	EPA 7470A	1,7470A	DR
Nickel, Total	0.3870		mg/l	0.00400	0.00111	1	05/27/22 20:44	05/30/22 15:31	EPA 3005A	1,6020B	WP
Potassium, Total	56.0		mg/l	0.200	0.0618	1	05/27/22 20:44	05/30/22 15:31	EPA 3005A	1,6020B	WP
Selenium, Total	0.0487		mg/l	0.0100	0.00346	1	05/27/22 20:44	05/30/22 15:31	EPA 3005A	1,6020B	WP
Silver, Total	0.00049	J	mg/l	0.00080	0.00032	1	05/27/22 20:44	05/30/22 15:31	EPA 3005A	1,6020B	WP
Sodium, Total	1390		mg/l	1.00	0.293	5	05/27/22 20:44	05/30/22 15:57	EPA 3005A	1,6020B	WP
Thallium, Total	0.00147	J	mg/l	0.00200	0.00028	1	05/27/22 20:44	05/30/22 15:31	EPA 3005A	1,6020B	WP
Vanadium, Total	0.2288		mg/l	0.01000	0.00314	1	05/27/22 20:44	05/30/22 15:31	EPA 3005A	1,6020B	WP
Zinc, Total	0.3628		mg/l	0.02000	0.00682	1	05/27/22 20:44	05/30/22 15:31	EPA 3005A	1,6020B	WP
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00593	J	mg/l	0.0100	0.00327	1	05/27/22 09:27	05/29/22 17:18	EPA 3005A	1,6020B	WP
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	05/27/22 09:27	05/29/22 17:18	EPA 3005A	1,6020B	WP
Arsenic, Dissolved	0.00551		mg/l	0.00050	0.00016	1	05/27/22 09:27	05/29/22 17:18	EPA 3005A	1,6020B	WP
Barium, Dissolved	0.2904		mg/l	0.00050	0.00017	1	05/27/22 09:27	05/29/22 17:18	EPA 3005A	1,6020B	WP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/27/22 09:27	05/29/22 17:18	EPA 3005A	1,6020B	WP

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224285
Project Number: 20-1152
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-08
Client ID: GW-DUP
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 00:00
Date Received: 05/09/22
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
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/27/22 09:27	05/29/22 17:18	EPA 3005A	1,6020B	WP
Calcium, Dissolved	141.		mg/l	0.100	0.0394	1	05/27/22 09:27	05/29/22 17:18	EPA 3005A	1,6020B	WP
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	05/27/22 09:27	05/29/22 17:18	EPA 3005A	1,6020B	WP
Cobalt, Dissolved	0.00249		mg/l	0.00050	0.00016	1	05/27/22 09:27	05/29/22 17:18	EPA 3005A	1,6020B	WP
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	05/27/22 09:27	05/29/22 17:18	EPA 3005A	1,6020B	WP
Iron, Dissolved	0.0245	J	mg/l	0.0500	0.0191	1	05/27/22 09:27	05/29/22 17:18	EPA 3005A	1,6020B	WP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/27/22 09:27	05/29/22 17:18	EPA 3005A	1,6020B	WP
Magnesium, Dissolved	107.		mg/l	0.0700	0.0242	1	05/27/22 09:27	05/29/22 17:18	EPA 3005A	1,6020B	WP
Manganese, Dissolved	2.815		mg/l	0.00100	0.00044	1	05/27/22 09:27	05/29/22 17:18	EPA 3005A	1,6020B	WP
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/27/22 11:20	05/27/22 15:26	EPA 7470A	1,7470A	AW
Nickel, Dissolved	0.00429		mg/l	0.00200	0.00055	1	05/27/22 09:27	05/29/22 17:18	EPA 3005A	1,6020B	WP
Potassium, Dissolved	59.8		mg/l	0.100	0.0309	1	05/27/22 09:27	05/29/22 17:18	EPA 3005A	1,6020B	WP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	05/27/22 09:27	05/29/22 17:18	EPA 3005A	1,6020B	WP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/27/22 09:27	05/29/22 17:18	EPA 3005A	1,6020B	WP
Sodium, Dissolved	1200		mg/l	1.00	0.293	10	05/27/22 09:27	05/29/22 18:35	EPA 3005A	1,6020B	WP
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	05/27/22 09:27	05/29/22 17:18	EPA 3005A	1,6020B	WP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/27/22 09:27	05/29/22 17:18	EPA 3005A	1,6020B	WP
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	05/27/22 09:27	05/29/22 17:18	EPA 3005A	1,6020B	WP

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224285
Project Number: 20-1152
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-11
Client ID: COMP SB-06(0-5)
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 12:40
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3200		mg/kg	8.42	2.27	2	05/23/22 05:50	05/25/22 11:06	EPA 3050B	1,6010D	SB
Antimony, Total	ND		mg/kg	4.21	0.320	2	05/23/22 05:50	05/25/22 11:06	EPA 3050B	1,6010D	SB
Arsenic, Total	3.22		mg/kg	0.842	0.175	2	05/23/22 05:50	05/25/22 11:06	EPA 3050B	1,6010D	SB
Barium, Total	39.5		mg/kg	0.842	0.146	2	05/23/22 05:50	05/25/22 11:06	EPA 3050B	1,6010D	SB
Beryllium, Total	0.160	J	mg/kg	0.421	0.028	2	05/23/22 05:50	05/25/22 11:06	EPA 3050B	1,6010D	SB
Cadmium, Total	0.227	J	mg/kg	0.842	0.083	2	05/23/22 05:50	05/25/22 11:06	EPA 3050B	1,6010D	SB
Calcium, Total	26200		mg/kg	8.42	2.94	2	05/23/22 05:50	05/25/22 11:06	EPA 3050B	1,6010D	SB
Chromium, Total	8.36		mg/kg	0.842	0.081	2	05/23/22 05:50	05/25/22 11:06	EPA 3050B	1,6010D	SB
Cobalt, Total	2.78		mg/kg	1.68	0.140	2	05/23/22 05:50	05/25/22 11:06	EPA 3050B	1,6010D	SB
Copper, Total	13.8		mg/kg	0.842	0.217	2	05/23/22 05:50	05/25/22 11:06	EPA 3050B	1,6010D	SB
Iron, Total	6910		mg/kg	4.21	0.760	2	05/23/22 05:50	05/25/22 11:06	EPA 3050B	1,6010D	SB
Lead, Total	53.8		mg/kg	4.21	0.226	2	05/23/22 05:50	05/25/22 11:06	EPA 3050B	1,6010D	SB
Magnesium, Total	7210		mg/kg	8.42	1.30	2	05/23/22 05:50	05/25/22 11:06	EPA 3050B	1,6010D	SB
Manganese, Total	126		mg/kg	0.842	0.134	2	05/23/22 05:50	05/25/22 11:06	EPA 3050B	1,6010D	SB
Mercury, Total	0.115		mg/kg	0.068	0.045	1	05/23/22 08:15	05/23/22 14:43	EPA 7471B	1,7471B	DMB
Nickel, Total	7.07		mg/kg	2.10	0.204	2	05/23/22 05:50	05/25/22 11:06	EPA 3050B	1,6010D	SB
Potassium, Total	878		mg/kg	210	12.1	2	05/23/22 05:50	05/25/22 11:06	EPA 3050B	1,6010D	SB
Selenium, Total	ND		mg/kg	1.68	0.217	2	05/23/22 05:50	05/25/22 11:06	EPA 3050B	1,6010D	SB
Silver, Total	ND		mg/kg	0.842	0.238	2	05/23/22 05:50	05/25/22 11:06	EPA 3050B	1,6010D	SB
Sodium, Total	403		mg/kg	168	2.65	2	05/23/22 05:50	05/25/22 11:06	EPA 3050B	1,6010D	SB
Thallium, Total	ND		mg/kg	1.68	0.265	2	05/23/22 05:50	05/25/22 11:06	EPA 3050B	1,6010D	SB
Vanadium, Total	11.2		mg/kg	0.842	0.171	2	05/23/22 05:50	05/25/22 11:06	EPA 3050B	1,6010D	SB
Zinc, Total	41.3		mg/kg	4.21	0.246	2	05/23/22 05:50	05/25/22 11:06	EPA 3050B	1,6010D	SB

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224285
Project Number: 20-1152
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-12
Client ID: COMP (SB-06, SB-07)
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 12:45
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
TCLP/SPLP Ext. Date: 05/10/22 04:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	0.028	J	mg/l	1.00	0.019	1	05/22/22 11:34	05/25/22 20:27	EPA 3015	1,6010D	EW
Barium, TCLP	0.347	J	mg/l	0.500	0.021	1	05/22/22 11:34	05/25/22 20:27	EPA 3015	1,6010D	EW
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/22/22 11:34	05/25/22 20:27	EPA 3015	1,6010D	EW
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/22/22 11:34	05/25/22 20:27	EPA 3015	1,6010D	EW
Lead, TCLP	ND		mg/l	0.500	0.027	1	05/22/22 11:34	05/25/22 20:27	EPA 3015	1,6010D	EW
Mercury, TCLP	0.0010	J	mg/l	0.0010	0.0005	1	05/28/22 07:17	05/29/22 09:17	EPA 7470A	1,7470A	AW
Selenium, TCLP	ND		mg/l	0.500	0.035	1	05/22/22 11:34	05/25/22 20:27	EPA 3015	1,6010D	EW
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/22/22 11:34	05/25/22 20:27	EPA 3015	1,6010D	EW

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224285

Project Number: 20-1152 **Report Date:** 05/31/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 03,06,12 Batch: WG1641401-1										
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	05/22/22 11:34	05/25/22 18:00	1,6010D	EW
Barium, TCLP	ND		mg/l	0.500	0.021	1	05/22/22 11:34	05/25/22 18:00	1,6010D	EW
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/22/22 11:34	05/25/22 18:00	1,6010D	EW
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/22/22 11:34	05/25/22 18:00	1,6010D	EW
Lead, TCLP	ND		mg/l	0.500	0.027	1	05/22/22 11:34	05/25/22 18:00	1,6010D	EW
Selenium, TCLP	ND		mg/l	0.500	0.035	1	05/22/22 11:34	05/25/22 18:00	1,6010D	EW
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/22/22 11:34	05/25/22 18:00	1,6010D	EW

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 05/10/22 02:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02,11 Batch: WG1641509-1										
Aluminum, Total	1.08	J	mg/kg	4.00	1.08	1	05/23/22 05:50	05/25/22 10:00	1,6010D	SB
Antimony, Total	ND		mg/kg	2.00	0.152	1	05/23/22 05:50	05/25/22 10:00	1,6010D	SB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	05/23/22 05:50	05/25/22 10:00	1,6010D	SB
Barium, Total	ND		mg/kg	0.400	0.070	1	05/23/22 05:50	05/25/22 10:00	1,6010D	SB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	05/23/22 05:50	05/25/22 10:00	1,6010D	SB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	05/23/22 05:50	05/25/22 10:00	1,6010D	SB
Calcium, Total	ND		mg/kg	4.00	1.40	1	05/23/22 05:50	05/25/22 10:00	1,6010D	SB
Chromium, Total	ND		mg/kg	0.400	0.038	1	05/23/22 05:50	05/25/22 10:00	1,6010D	SB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	05/23/22 05:50	05/25/22 10:00	1,6010D	SB
Copper, Total	ND		mg/kg	0.400	0.103	1	05/23/22 05:50	05/25/22 10:00	1,6010D	SB
Iron, Total	0.768	J	mg/kg	2.00	0.361	1	05/23/22 05:50	05/25/22 10:00	1,6010D	SB
Lead, Total	ND		mg/kg	2.00	0.107	1	05/23/22 05:50	05/25/22 10:00	1,6010D	SB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	05/23/22 05:50	05/25/22 10:00	1,6010D	SB
Manganese, Total	ND		mg/kg	0.400	0.064	1	05/23/22 05:50	05/25/22 10:00	1,6010D	SB
Nickel, Total	ND		mg/kg	1.00	0.097	1	05/23/22 05:50	05/25/22 10:00	1,6010D	SB
Potassium, Total	ND		mg/kg	100	5.76	1	05/23/22 05:50	05/25/22 10:00	1,6010D	SB
Selenium, Total	ND		mg/kg	0.800	0.103	1	05/23/22 05:50	05/25/22 10:00	1,6010D	SB
Silver, Total	ND		mg/kg	0.400	0.113	1	05/23/22 05:50	05/25/22 10:00	1,6010D	SB

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224285

Project Number: 20-1152 **Report Date:** 05/31/22

Method Blank Analysis
Batch Quality Control

Sodium, Total	2.40	J	mg/kg	80.0	1.26	1	05/23/22 05:50	05/25/22 10:00	1,6010D	SB
Thallium, Total	ND		mg/kg	0.800	0.126	1	05/23/22 05:50	05/25/22 10:00	1,6010D	SB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	05/23/22 05:50	05/25/22 10:00	1,6010D	SB
Zinc, Total	0.580	J	mg/kg	2.00	0.117	1	05/23/22 05:50	05/25/22 10:00	1,6010D	SB

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): 02,11 Batch: WG1641512-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	05/23/22 08:15	05/23/22 14:07	1,7471B	DMB

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 07-08 Batch: WG1643343-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/27/22 11:20	05/27/22 15:10	1,7470A	AW

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 07-08 Batch: WG1643344-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	05/27/22 09:27	05/29/22 15:50	1,6020B	WP
Antimony, Dissolved	0.00070	J	mg/l	0.00400	0.00042	1	05/27/22 09:27	05/29/22 15:50	1,6020B	WP
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	05/27/22 09:27	05/29/22 15:50	1,6020B	WP
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	05/27/22 09:27	05/29/22 15:50	1,6020B	WP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/27/22 09:27	05/29/22 15:50	1,6020B	WP
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/27/22 09:27	05/29/22 15:50	1,6020B	WP

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224285

Project Number: 20-1152 **Report Date:** 05/31/22

Method Blank Analysis
Batch Quality Control

Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	05/27/22 09:27	05/29/22 15:50	1,6020B	WP
Chromium, Dissolved	0.00018	J	mg/l	0.00100	0.00017	1	05/27/22 09:27	05/29/22 15:50	1,6020B	WP
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	05/27/22 09:27	05/29/22 15:50	1,6020B	WP
Copper, Dissolved	0.00288		mg/l	0.00100	0.00038	1	05/27/22 09:27	05/29/22 15:50	1,6020B	WP
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	05/27/22 09:27	05/29/22 15:50	1,6020B	WP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/27/22 09:27	05/29/22 15:50	1,6020B	WP
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	05/27/22 09:27	05/29/22 15:50	1,6020B	WP
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	05/27/22 09:27	05/29/22 15:50	1,6020B	WP
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	05/27/22 09:27	05/29/22 15:50	1,6020B	WP
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	05/27/22 09:27	05/29/22 15:50	1,6020B	WP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	05/27/22 09:27	05/29/22 15:50	1,6020B	WP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/27/22 09:27	05/29/22 15:50	1,6020B	WP
Sodium, Dissolved	0.0372	J	mg/l	0.100	0.0293	1	05/27/22 09:27	05/29/22 15:50	1,6020B	WP
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	05/27/22 09:27	05/29/22 15:50	1,6020B	WP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/27/22 09:27	05/29/22 15:50	1,6020B	WP
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	05/27/22 09:27	05/29/22 15:50	1,6020B	WP

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 03,06,12 Batch: WG1643862-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	05/28/22 07:17	05/29/22 08:57	1,7470A	AW

Prep Information

Digestion Method: EPA 7470A

TCLP/SPLP Extraction Date: 05/10/22 02:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 07-08 Batch: WG1643937-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	05/27/22 20:44	05/30/22 14:18	1,6020B	WP
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/27/22 20:44	05/30/22 14:18	1,6020B	WP
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	05/27/22 20:44	05/30/22 14:18	1,6020B	WP

Project Name: 20-1152 BATTERY PARK
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Method Blank Analysis
Batch Quality Control

Barium, Total	ND		mg/l	0.00050	0.00017	1	05/27/22 20:44	05/30/22 14:18	1,6020B	WP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/27/22 20:44	05/30/22 14:18	1,6020B	WP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/27/22 20:44	05/30/22 14:18	1,6020B	WP
Calcium, Total	ND		mg/l	0.100	0.0394	1	05/27/22 20:44	05/30/22 14:18	1,6020B	WP
Chromium, Total	ND		mg/l	0.00100	0.00017	1	05/27/22 20:44	05/30/22 14:18	1,6020B	WP
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	05/27/22 20:44	05/30/22 14:18	1,6020B	WP
Copper, Total	ND		mg/l	0.00100	0.00038	1	05/27/22 20:44	05/30/22 14:18	1,6020B	WP
Iron, Total	ND		mg/l	0.0500	0.0191	1	05/27/22 20:44	05/30/22 14:18	1,6020B	WP
Lead, Total	ND		mg/l	0.00100	0.00034	1	05/27/22 20:44	05/30/22 14:18	1,6020B	WP
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	05/27/22 20:44	05/30/22 14:18	1,6020B	WP
Manganese, Total	ND		mg/l	0.00100	0.00044	1	05/27/22 20:44	05/30/22 14:18	1,6020B	WP
Nickel, Total	ND		mg/l	0.00200	0.00055	1	05/27/22 20:44	05/30/22 14:18	1,6020B	WP
Potassium, Total	ND		mg/l	0.100	0.0309	1	05/27/22 20:44	05/30/22 14:18	1,6020B	WP
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/27/22 20:44	05/30/22 14:18	1,6020B	WP
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/27/22 20:44	05/30/22 14:18	1,6020B	WP
Sodium, Total	ND		mg/l	0.100	0.0293	1	05/27/22 20:44	05/30/22 14:18	1,6020B	WP
Thallium, Total	0.00029	J	mg/l	0.00100	0.00014	1	05/27/22 20:44	05/30/22 14:18	1,6020B	WP
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/27/22 20:44	05/30/22 14:18	1,6020B	WP
Zinc, Total	ND		mg/l	0.01000	0.00341	1	05/27/22 20:44	05/30/22 14:18	1,6020B	WP

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): 07-08 Batch: WG1643939-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/27/22 22:55	05/28/22 14:25	1,7470A	DR

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 03,06,12 Batch: WG1641401-2								
Arsenic, TCLP	106		-		75-125	-		20
Barium, TCLP	94		-		75-125	-		20
Cadmium, TCLP	96		-		75-125	-		20
Chromium, TCLP	95		-		75-125	-		20
Lead, TCLP	95		-		75-125	-		20
Selenium, TCLP	105		-		75-125	-		20
Silver, TCLP	95		-		75-125	-		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,11 Batch: WG1641509-2 SRM Lot Number: D113-540					
Aluminum, Total	75	-	51-149	-	
Antimony, Total	167	-	20-250	-	
Arsenic, Total	96	-	70-130	-	
Barium, Total	87	-	75-125	-	
Beryllium, Total	86	-	75-125	-	
Cadmium, Total	88	-	75-125	-	
Calcium, Total	89	-	73-128	-	
Chromium, Total	92	-	70-130	-	
Cobalt, Total	92	-	75-125	-	
Copper, Total	92	-	75-125	-	
Iron, Total	101	-	36-164	-	
Lead, Total	92	-	72-128	-	
Magnesium, Total	90	-	63-138	-	
Manganese, Total	89	-	77-123	-	
Nickel, Total	90	-	70-130	-	
Potassium, Total	86	-	59-141	-	
Selenium, Total	102	-	66-134	-	
Silver, Total	94	-	70-131	-	
Sodium, Total	94	-	35-164	-	
Thallium, Total	90	-	70-130	-	
Vanadium, Total	92	-	74-126	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,11 Batch: WG1641509-2 SRM Lot Number: D113-540					
Zinc, Total	91	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 02,11 Batch: WG1641512-2 SRM Lot Number: D113-540					
Mercury, Total	92	-	60-140	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 07-08 Batch: WG1643343-2					
Mercury, Dissolved	90	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 07-08 Batch: WG1643344-2					
Aluminum, Dissolved	100	-	80-120	-	
Antimony, Dissolved	88	-	80-120	-	
Arsenic, Dissolved	104	-	80-120	-	
Barium, Dissolved	100	-	80-120	-	
Beryllium, Dissolved	109	-	80-120	-	
Cadmium, Dissolved	103	-	80-120	-	
Calcium, Dissolved	105	-	80-120	-	
Chromium, Dissolved	99	-	80-120	-	
Cobalt, Dissolved	96	-	80-120	-	
Copper, Dissolved	98	-	80-120	-	
Iron, Dissolved	110	-	80-120	-	
Lead, Dissolved	105	-	80-120	-	
Magnesium, Dissolved	109	-	80-120	-	
Manganese, Dissolved	100	-	80-120	-	
Nickel, Dissolved	96	-	80-120	-	
Potassium, Dissolved	105	-	80-120	-	
Selenium, Dissolved	111	-	80-120	-	
Silver, Dissolved	103	-	80-120	-	
Sodium, Dissolved	103	-	80-120	-	
Thallium, Dissolved	104	-	80-120	-	
Vanadium, Dissolved	99	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 07-08 Batch: WG1643344-2					
Zinc, Dissolved	94	-	80-120	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 03,06,12 Batch: WG1643862-2					
Mercury, TCLP	97	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 07-08 Batch: WG1643937-2					
Aluminum, Total	100	-	80-120	-	
Antimony, Total	89	-	80-120	-	
Arsenic, Total	104	-	80-120	-	
Barium, Total	97	-	80-120	-	
Beryllium, Total	100	-	80-120	-	
Cadmium, Total	100	-	80-120	-	
Calcium, Total	112	-	80-120	-	
Chromium, Total	94	-	80-120	-	
Cobalt, Total	94	-	80-120	-	
Copper, Total	97	-	80-120	-	
Iron, Total	105	-	80-120	-	
Lead, Total	100	-	80-120	-	
Magnesium, Total	102	-	80-120	-	
Manganese, Total	101	-	80-120	-	
Nickel, Total	97	-	80-120	-	
Potassium, Total	99	-	80-120	-	
Selenium, Total	106	-	80-120	-	
Silver, Total	100	-	80-120	-	
Sodium, Total	101	-	80-120	-	
Thallium, Total	107	-	80-120	-	
Vanadium, Total	99	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 07-08 Batch: WG1643937-2					
Zinc, Total	109	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 07-08 Batch: WG1643939-2					
Mercury, Total	98	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 03,06,12 QC Batch ID: WG1641401-3 QC Sample: L2223335-12 Client ID: MS Sample												
Arsenic, TCLP	ND	1.2	1.28	107		-	-		75-125	-		20
Barium, TCLP	0.998	20	19.6	93		-	-		75-125	-		20
Cadmium, TCLP	ND	0.53	0.509	96		-	-		75-125	-		20
Chromium, TCLP	ND	2	1.90	95		-	-		75-125	-		20
Lead, TCLP	0.037J	5.3	5.02	95		-	-		75-125	-		20
Selenium, TCLP	ND	1.2	1.25	104		-	-		75-125	-		20
Silver, TCLP	ND	0.5	0.486	97		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

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): 02,11 QC Batch ID: WG1641509-3 QC Sample: L2224278-01 Client ID: MS Sample										
Aluminum, Total	ND	173	156	90		-	-	75-125	-	20
Antimony, Total	ND	43.2	39.4	91		-	-	75-125	-	20
Arsenic, Total	ND	10.4	11.2	108		-	-	75-125	-	20
Barium, Total	1.03	173	164	94		-	-	75-125	-	20
Beryllium, Total	ND	4.32	4.22	98		-	-	75-125	-	20
Cadmium, Total	ND	4.58	4.39	96		-	-	75-125	-	20
Calcium, Total	95.4	864	906	94		-	-	75-125	-	20
Chromium, Total	0.141J	17.3	15.7	91		-	-	75-125	-	20
Cobalt, Total	ND	43.2	39.2	91		-	-	75-125	-	20
Copper, Total	1.95	21.6	21.9	92		-	-	75-125	-	20
Iron, Total	48.6	86.4	108	**69**	Q	-	-	75-125	-	20
Lead, Total	0.132J	45.8	43.2	94		-	-	75-125	-	20
Magnesium, Total	218	864	1040	95		-	-	75-125	-	20
Manganese, Total	2.97	43.2	42.1	90		-	-	75-125	-	20
Nickel, Total	0.154J	43.2	39.7	92		-	-	75-125	-	20
Potassium, Total	5020	864	5760	86		-	-	75-125	-	20
Selenium, Total	0.800J	10.4	13.6	**131**	Q	-	-	75-125	-	20
Silver, Total	ND	25.9	23.9	92		-	-	75-125	-	20
Sodium, Total	5.94J	864	852	98		-	-	75-125	-	20
Thallium, Total	ND	10.4	9.33	90		-	-	75-125	-	20
Vanadium, Total	ND	43.2	39.9	92		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

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): 02,11 QC Batch ID: WG1641509-3 QC Sample: L2224278-01 Client ID: MS Sample									
Zinc, Total	13.2	43.2	55.2	97	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 02,11 QC Batch ID: WG1641512-3 QC Sample: L2224278-01 Client ID: MS Sample									
Mercury, Total	ND	0.143	0.133	93	-	-	80-120	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 07-08 QC Batch ID: WG1643343-3 QC Sample: L2224285-07 Client ID: TWP-07									
Mercury, Dissolved	ND	0.01	0.00940	94	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 07-08 QC Batch ID: WG1643344-3 QC Sample: L2224285-07 Client ID: TWP-07										
Aluminum, Dissolved	0.00756J	2	1.99	100		-	-	75-125	-	20
Antimony, Dissolved	0.00053J	0.5	0.5166	103		-	-	75-125	-	20
Arsenic, Dissolved	0.00401	0.12	0.1303	105		-	-	75-125	-	20
Barium, Dissolved	0.3278	2	2.336	100		-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.04776	96		-	-	75-125	-	20
Cadmium, Dissolved	ND	0.053	0.05345	101		-	-	75-125	-	20
Calcium, Dissolved	149.	10	163	**140**	Q	-	-	75-125	-	20
Chromium, Dissolved	ND	0.2	0.1913	96		-	-	75-125	-	20
Cobalt, Dissolved	0.00218	0.5	0.4643	92		-	-	75-125	-	20
Copper, Dissolved	0.00046JB	0.25	0.2489	100		-	-	75-125	-	20
Iron, Dissolved	0.0316J	1	1.00	100		-	-	75-125	-	20
Lead, Dissolved	ND	0.53	0.5376	101		-	-	75-125	-	20
Magnesium, Dissolved	110.	10	113	**30**	Q	-	-	75-125	-	20
Manganese, Dissolved	3.100	0.5	3.963	**173**	Q	-	-	75-125	-	20
Nickel, Dissolved	0.00362	0.5	0.4839	96		-	-	75-125	-	20
Potassium, Dissolved	62.3	10	68.4	**61**	Q	-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.122	102		-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.04991	100		-	-	75-125	-	20
Sodium, Dissolved	1280	10	1260	**0**	Q	-	-	75-125	-	20
Thallium, Dissolved	0.00014J	0.12	0.1183	98		-	-	75-125	-	20
Vanadium, Dissolved	ND	0.5	0.4884	98		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 07-08 QC Batch ID: WG1643344-3 QC Sample: L2224285-07 Client ID: TWP-07									
Zinc, Dissolved	ND	0.5	0.4576	92	-	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 03,06,12 QC Batch ID: WG1643862-3 QC Sample: L2224285-06 Client ID: COMP SB-07(0-20)									
Mercury, TCLP	ND	0.025	0.0242	97	-	-	80-120	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

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): 07-08 QC Batch ID: WG1643937-3 QC Sample: L2224290-06 Client ID: MS Sample										
Aluminum, Total	0.045	2	2.04	100		-	-	75-125	-	20
Antimony, Total	0.0005J	0.5	0.5329	106		-	-	75-125	-	20
Arsenic, Total	0.0007	0.12	0.1274	106		-	-	75-125	-	20
Barium, Total	0.1529	2	2.135	99		-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.03934	79		-	-	75-125	-	20
Cadmium, Total	ND	0.053	0.05088	96		-	-	75-125	-	20
Calcium, Total	400	10	454	**540**	Q	-	-	75-125	-	20
Chromium, Total	0.0008J	0.2	0.1911	96		-	-	75-125	-	20
Cobalt, Total	0.0028	0.5	0.4771	95		-	-	75-125	-	20
Copper, Total	0.0005J	0.25	0.2572	103		-	-	75-125	-	20
Iron, Total	6.75	1	7.71	96		-	-	75-125	-	20
Lead, Total	0.00064J	0.53	0.5283	100		-	-	75-125	-	20
Magnesium, Total	92.6	10	89.0	**-36**	Q	-	-	75-125	-	20
Manganese, Total	0.1660	0.5	0.6734	101		-	-	75-125	-	20
Nickel, Total	0.0061	0.5	0.4751	94		-	-	75-125	-	20
Potassium, Total	48.5	10	56.2	77		-	-	75-125	-	20
Selenium, Total	ND	0.12	0.126	105		-	-	75-125	-	20
Silver, Total	ND	0.05	0.04921	98		-	-	75-125	-	20
Sodium, Total	257.	10	215	**0**	Q	-	-	75-125	-	20
Thallium, Total	0.0005J	0.12	0.1307	109		-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.4880	98		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

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): 07-08 QC Batch ID: WG1643937-3 QC Sample: L2224290-06 Client ID: MS Sample									
Zinc, Total	0.0118	0.5	0.6355	125	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 07-08 QC Batch ID: WG1643939-3 QC Sample: L2224084-01 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00466	93	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 03,06,12 QC Batch ID: WG1641401-4 QC Sample: L2223335-12 Client ID: DUP Sample						
Lead, TCLP	0.037J	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 02,11 QC Batch ID: WG1641509-4 QC Sample: L2224278-01 Client ID: DUP Sample						
Arsenic, Total	ND	ND	mg/kg	NC		20
Barium, Total	1.03	1.06	mg/kg	3		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Chromium, Total	0.141J	0.148J	mg/kg	NC		20
Lead, Total	0.132J	0.130J	mg/kg	NC		20
Selenium, Total	0.800J	0.786J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 02,11 QC Batch ID: WG1641512-4 QC Sample: L2224278-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20
Dissolved Metals - Mansfield Lab Associated sample(s): 07-08 QC Batch ID: WG1643343-4 QC Sample: L2224285-07 Client ID: TWP-07						
Mercury, Dissolved	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 07-08 QC Batch ID: WG1643344-4 QC Sample: L2224285-07 Client ID: TWP-07					
Aluminum, Dissolved	0.00756J	0.00693J	mg/l	NC	20
Antimony, Dissolved	0.00053J	0.00074J	mg/l	NC	20
Arsenic, Dissolved	0.00401	0.00425	mg/l	6	20
Barium, Dissolved	0.3278	0.3231	mg/l	1	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Calcium, Dissolved	149.	146	mg/l	2	20
Chromium, Dissolved	ND	ND	mg/l	NC	20
Cobalt, Dissolved	0.00218	0.00219	mg/l	1	20
Copper, Dissolved	0.00046JB	0.00050J	mg/l	NC	20
Iron, Dissolved	0.0316J	0.0399J	mg/l	NC	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Magnesium, Dissolved	110.	107	mg/l	3	20
Manganese, Dissolved	3.100	3.133	mg/l	1	20
Nickel, Dissolved	0.00362	0.00360	mg/l	1	20
Potassium, Dissolved	62.3	59.1	mg/l	5	20
Selenium, Dissolved	ND	ND	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Thallium, Dissolved	0.00014J	0.00041J	mg/l	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 07-08 QC Batch ID: WG1643344-4 QC Sample: L2224285-07 Client ID: TWP-07					
Vanadium, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	ND	ND	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 07-08 QC Batch ID: WG1643344-4 QC Sample: L2224285-07 Client ID: TWP-07					
Sodium, Dissolved	1280	1280	mg/l	0	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 03,06,12 QC Batch ID: WG1643862-4 QC Sample: L2224285-06 Client ID: COMP SB-07(0-20)					
Mercury, TCLP	ND	0.0017	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 07-08 QC Batch ID: WG1643937-4 QC Sample: L2224290-06 Client ID: DUP Sample					
Cadmium, Total	ND	ND	mg/l	NC	20
Iron, Total	6.75	6.71	mg/l	1	20
Lead, Total	0.00064J	0.00068J	mg/l	NC	20
Manganese, Total	0.1660	0.1682	mg/l	1	20
Potassium, Total	48.5	49.5	mg/l	2	20
Sodium, Total	257.	261	mg/l	2	20
Total Metals - Mansfield Lab Associated sample(s): 07-08 QC Batch ID: WG1643939-4 QC Sample: L2224084-01 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-03
Client ID: COMP (SB-01)
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/09/22 09:45
Date Received: 05/09/22
Field Prep: Not Specified

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	05/15/22 14:41	1,1030	PA

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-06
Client ID: COMP SB-07(0-20)
Sample Location: MANHATTAN, NY
Date Collected: 05/09/22 11:10
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	05/15/22 14:41	1,1030	PA

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-12
Client ID: COMP (SB-06, SB-07)
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/09/22 12:45
Date Received: 05/09/22
Field Prep: Not Specified

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	05/15/22 14:41	1,1030	PA

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-01
Client ID: SB-01(0-2)
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 08:55
Date Received: 05/09/22
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	96.7		%	0.100	NA	1	-	05/10/22 07:56	121,2540G	RI

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-02
Client ID: COMP SB-01(0-4)
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/09/22 09:40
Date Received: 05/09/22
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	94.5		%	0.100	NA	1	-	05/10/22 10:05	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/19/22 10:20	05/19/22 12:46	1,9010C/9012B	CS
Chromium, Hexavalent	0.222	J	mg/kg	0.846	0.169	1	05/11/22 18:06	05/11/22 22:08	1,7196A	NL

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-03
Client ID: COMP (SB-01)
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/09/22 09:45
Date Received: 05/09/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
pH (H)	11.4		SU	-	NA	1	-	05/13/22 21:00	1,9045D	AS
Cyanide, Reactive	ND		mg/kg	10	10.	1	05/23/22 09:40	05/23/22 12:22	125,7.3	MJ
Sulfide, Reactive	ND		mg/kg	10	10.	1	05/23/22 09:40	05/23/22 11:36	125,7.3	MJ

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-04
Client ID: SB-07(0-2)
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/09/22 10:30
Date Received: 05/09/22
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	93.0		%	0.100	NA	1	-	05/10/22 07:56	121,2540G	RI

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-05
Client ID: SB-07(8-10)
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 11:05
Date Received: 05/09/22
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	82.1		%	0.100	NA	1	-	05/10/22 07:56	121,2540G	RI

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-06
Client ID: COMP SB-07(0-20)
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 11:10
Date Received: 05/09/22
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										
pH (H)	8.4		SU	-	NA	1	-	05/13/22 21:00	1,9045D	AS
Cyanide, Reactive	ND		mg/kg	10	10.	1	05/20/22 10:43	05/20/22 12:59	125,7.3	MJ
Sulfide, Reactive	ND		mg/kg	10	10.	1	05/20/22 10:43	05/20/22 12:18	125,7.3	MJ

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-07
Client ID: TWP-07
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 11:50
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	05/19/22 13:45	05/20/22 09:17	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/10/22 08:30	05/10/22 08:44	1,7196A	CL

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-08
Client ID: GW-DUP
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 00:00
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	05/19/22 13:45	05/20/22 09:18	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/10/22 08:30	05/10/22 08:46	1,7196A	CL

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-10
Client ID: SB-06(0-2)
Sample Location: MANHATTAN, NY

Date Collected: 05/09/22 12:30
Date Received: 05/09/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.8		%	0.100	NA	1	-	05/10/22 07:56	121,2540G	RI

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-11
Client ID: COMP SB-06(0-5)
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/09/22 12:40
Date Received: 05/09/22
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	92.4		%	0.100	NA	1	-	05/10/22 10:05	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/19/22 13:45	05/20/22 08:53	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.866	0.173	1	05/11/22 18:06	05/11/22 22:08	1,7196A	NL

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

SAMPLE RESULTS

Lab ID: L2224285-12
Client ID: COMP (SB-06, SB-07)
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/09/22 12:45
Date Received: 05/09/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
pH (H)	11.4		SU	-	NA	1	-	05/13/22 21:00	1,9045D	AS
Cyanide, Reactive	ND		mg/kg	10	10.	1	05/20/22 10:43	05/20/22 13:00	125,7.3	MJ
Sulfide, Reactive	ND		mg/kg	10	10.	1	05/20/22 10:43	05/20/22 12:21	125,7.3	MJ

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224285
Report Date: 05/31/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 07-08 Batch: WG1636535-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/10/22 08:30	05/10/22 08:43	1,7196A	CL
General Chemistry - Westborough Lab for sample(s): 02,11 Batch: WG1637326-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	05/11/22 18:06	05/11/22 22:08	1,7196A	NL
General Chemistry - Westborough Lab for sample(s): 06,12 Batch: WG1640097-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	05/20/22 10:43	05/20/22 12:10	125,7.3	MJ
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1640367-1										
Cyanide, Total	ND		mg/kg	0.90	0.19	1	05/19/22 10:20	05/19/22 12:42	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 11 Batch: WG1640517-1										
Cyanide, Total	ND		mg/kg	0.96	0.20	1	05/19/22 13:45	05/20/22 08:49	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 07-08 Batch: WG1640521-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/19/22 13:45	05/20/22 09:13	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG1640538-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	05/23/22 09:40	05/23/22 11:16	125,7.3	MJ
General Chemistry - Westborough Lab for sample(s): 06,12 Batch: WG1640939-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	05/20/22 10:43	05/20/22 12:58	125,7.3	MJ
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG1641594-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	05/23/22 09:40	05/23/22 12:19	125,7.3	MJ

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 07-08 Batch: WG1636535-2								
Chromium, Hexavalent	102		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 02,11 Batch: WG1637326-2								
Chromium, Hexavalent	102		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 03,06,12 Batch: WG1638353-1								
pH	101		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 06,12 Batch: WG1640097-2								
Sulfide, Reactive	115		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1640367-2 WG1640367-3								
Cyanide, Total	**68**	Q	**69**	Q	80-120	1		35
General Chemistry - Westborough Lab Associated sample(s): 11 Batch: WG1640517-2 WG1640517-3								
Cyanide, Total	117		86		80-120	14		35
General Chemistry - Westborough Lab Associated sample(s): 07-08 Batch: WG1640521-2 WG1640521-3								
Cyanide, Total	98		95		85-115	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224285

Report Date: 05/31/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1640538-2					
Sulfide, Reactive	86	-	60-125	-	40
General Chemistry - Westborough Lab Associated sample(s): 06,12 Batch: WG1640939-2					
Cyanide, Reactive	107	-	30-125	-	40
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1641594-2					
Cyanide, Reactive	84	-	30-125	-	40

Matrix Spike Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG1636535-4 QC Sample: L2224285-08 Client ID: GW-DUP												
Chromium, Hexavalent	ND	0.1	0.102	102		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 02,11 QC Batch ID: WG1637326-4 QC Sample: L2224285-11 Client ID: COMP SB-06(0-5)												
Chromium, Hexavalent	ND	1180	1200	101		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1640367-4 WG1640367-5 QC Sample: L2225495-05 Client ID: MS Sample												
Cyanide, Total	0.26J	11	9.6	86		9.2	88		75-125	4		35
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1640517-4 WG1640517-5 QC Sample: L2224398-04 Client ID: MS Sample												
Cyanide, Total	ND	11	10	91		9.6	92		75-125	4		35
General Chemistry - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG1640521-4 WG1640521-5 QC Sample: L2224335-04 Client ID: MS Sample												
Cyanide, Total	0.002J	0.2	0.200	100		0.202	101		80-120	1		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,04-05,10 QC Batch ID: WG1636455-1 QC Sample: L2224287-01 Client ID: DUP Sample						
Solids, Total	83.0	83.0	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG1636535-3 QC Sample: L2224285-07 Client ID: TWP-07						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02,11 QC Batch ID: WG1636569-1 QC Sample: L2224285-02 Client ID: COMP SB-01(0-4)						
Solids, Total	94.5	94.1	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 02,11 QC Batch ID: WG1637326-6 QC Sample: L2224285-11 Client ID: COMP SB-06(0-5)						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 03,06,12 QC Batch ID: WG1638353-2 QC Sample: L2224019-05 Client ID: DUP Sample						
pH	9.6	9.4	SU	2		5
General Chemistry - Westborough Lab Associated sample(s): 06,12 QC Batch ID: WG1640097-3 QC Sample: L2225817-18 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1640538-3 QC Sample: L2220096-25 Client ID: DUP Sample						
Sulfide, Reactive	43	49	mg/kg	13		40
General Chemistry - Westborough Lab Associated sample(s): 06,12 QC Batch ID: WG1640939-3 QC Sample: L2225817-18 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224285
Report Date: 05/31/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2224285-01A	Vial MeOH preserved	A	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L2224285-01B	Vial water preserved	A	NA		2.1	Y	Absent	10-MAY-22 05:43	NYTCL-8260HLW(14)
L2224285-01C	Vial water preserved	A	NA		2.1	Y	Absent	10-MAY-22 05:43	NYTCL-8260HLW(14)
L2224285-01D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L2224285-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),SE-TI(180),SB-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MG-TI(180),HG-T(28),MN-TI(180),FE-TI(180),NA-TI(180),K-TI(180),CA-TI(180),CD-TI(180)
L2224285-02B	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2224285-02C	Glass 500ml/16oz unpreserved	A	NA		2.1	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2224285-03A	Glass 500ml/16oz unpreserved	A	NA		2.1	Y	Absent		IGNIT-1030(14),REACTS(14),PH-9045(1),REACTCN(14)
L2224285-03X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.1	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2224285-03X9	Tumble Vessel	A	NA		2.1	Y	Absent		-
L2224285-04A	Vial MeOH preserved	A	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L2224285-04B	Vial water preserved	A	NA		2.1	Y	Absent	10-MAY-22 05:43	NYTCL-8260HLW(14)
L2224285-04C	Vial water preserved	A	NA		2.1	Y	Absent	10-MAY-22 05:43	NYTCL-8260HLW(14)
L2224285-04D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L2224285-05A	Vial MeOH preserved	A	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L2224285-05B	Vial water preserved	A	NA		2.1	Y	Absent	10-MAY-22 05:43	NYTCL-8260HLW(14)
L2224285-05C	Vial water preserved	A	NA		2.1	Y	Absent	10-MAY-22 05:43	NYTCL-8260HLW(14)
L2224285-05D	Plastic 2oz unpreserved for TS	A	NA		2.1	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(*)
L2224285-06A	Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		IGNIT-1030(14),REACTS(14),PH-9045(1),REACTCN(14)
L2224285-06B	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		IGNIT-1030(14),REACTS(14),PH-9045(1),REACTCN(14)
L2224285-06C	Glass 500ml/16oz unpreserved	A	NA		2.1	Y	Absent		IGNIT-1030(14),REACTS(14),PH-9045(1),REACTCN(14)
L2224285-06X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.1	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2224285-06X9	Tumble Vessel	A	NA		2.1	Y	Absent		-
L2224285-07A	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2224285-07B	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2224285-07C	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2224285-07D	Amber 120ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8081(7)
L2224285-07E	Amber 120ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8081(7)
L2224285-07F	Amber 120ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8082-LVI(365)
L2224285-07G	Amber 120ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8082-LVI(365)
L2224285-07H	Plastic 250ml unpreserved	A	7	7	2.1	Y	Absent		-
L2224285-07I	Plastic 250ml unpreserved	A	7	7	2.1	Y	Absent		HEXCR-7196(1)
L2224285-07J	Amber 250ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2224285-07K	Amber 250ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2224285-07L	Plastic 250ml NaOH preserved	A	>12	>12	2.1	Y	Absent		TCN-9010(14)
L2224285-07M	Plastic 250ml HNO3 preserved	A	<2	<2	2.1	Y	Absent		SE-6020T(180),TL-6020T(180),BA-6020T(180),FE-6020T(180),K-6020T(180),CA-6020T(180),CR-6020T(180),NI-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),HG-T(28),AL-6020T(180),MG-6020T(180),AG-6020T(180),CD-6020T(180),CO-6020T(180)
L2224285-07N	Amber 1000ml unpreserved	A	7	7	2.1	Y	Absent		HERB-APA(7)
L2224285-07O	Amber 1000ml unpreserved	A	7	7	2.1	Y	Absent		HERB-APA(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(*)
L2224285-07X	Plastic 120ml HNO3 preserved Filtrates	A	NA		2.1	Y	Absent		V-6020S(180),K-6020S(180),SE-6020S(180),CU-6020S(180),MN-6020S(180),MG-6020S(180),CO-6020S(180),ZN-6020S(180),BE-6020S(180),FE-6020S(180),CR-6020S(180),CA-6020S(180),PB-6020S(180),TL-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),HG-S(28),CD-6020S(180)
L2224285-08A	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2224285-08B	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2224285-08C	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2224285-08D	Amber 120ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8081(7)
L2224285-08E	Amber 120ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8081(7)
L2224285-08F	Amber 120ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8082-LVI(365)
L2224285-08G	Amber 120ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8082-LVI(365)
L2224285-08H	Plastic 250ml unpreserved	A	7	7	2.1	Y	Absent		-
L2224285-08I	Plastic 250ml unpreserved	A	7	7	2.1	Y	Absent		HEXCR-7196(1)
L2224285-08J	Amber 250ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2224285-08K	Amber 250ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2224285-08L	Plastic 250ml NaOH preserved	A	>12	>12	2.1	Y	Absent		TCN-9010(14)
L2224285-08M	Plastic 250ml HNO3 preserved	A	<2	<2	2.1	Y	Absent		TL-6020T(180),BA-6020T(180),FE-6020T(180),SE-6020T(180),K-6020T(180),CA-6020T(180),NI-6020T(180),CR-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),AL-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L2224285-08N	Amber 1000ml unpreserved	A	7	7	2.1	Y	Absent		HERB-APA(7)
L2224285-08O	Amber 1000ml unpreserved	A	7	7	2.1	Y	Absent		HERB-APA(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(*)
L2224285-08X	Plastic 120ml HNO3 preserved Filtrates	A	NA		2.1	Y	Absent		SE-6020S(180),CU-6020S(180),K-6020S(180),V-6020S(180),MN-6020S(180),ZN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),NI-6020S(180),PB-6020S(180),BA-6020S(180),NA-6020S(180),TL-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),HG-S(28),CD-6020S(180),AL-6020S(180)
L2224285-09A	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2224285-09B	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2224285-10A	Vial MeOH preserved	A	NA		2.1	Y	Absent		NYTCL-8260HLW(14)
L2224285-10B	Vial water preserved	A	NA		2.1	Y	Absent	10-MAY-22 05:43	NYTCL-8260HLW(14)
L2224285-10C	Vial water preserved	A	NA		2.1	Y	Absent	10-MAY-22 05:43	NYTCL-8260HLW(14)
L2224285-10D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)
L2224285-11A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	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),ZN-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),K-TI(180),CA-TI(180),NA-TI(180),CD-TI(180)
L2224285-11B	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2224285-11C	Glass 500ml/16oz unpreserved	A	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2224285-12A	Glass 500ml/16oz unpreserved	A	NA		2.1	Y	Absent		REACTS(14),IGNIT-1030(14),PH-9045(1),REACTCN(14)
L2224285-12X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.1	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2224285-12X9	Tumble Vessel	A	NA		2.1	Y	Absent		-

*Values in parentheses indicate holding time in days

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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

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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. 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.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

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Data Qualifiers

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

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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.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

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.

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

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 05/09/22

ALPHA Job #: L2224285

Client Information
Client: Matrix
Address: 333 W. 39th St NY, NY
Phone:
Fax:
Email: bCrespi@mnwe.com

Project Information
Project Name: 20-1152 Battery Park
Project Location: Manhattan, NY
Project #: 20-1152
(Use Project name as Project #) ☐
Project Manager: Brian Crespi
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

Billing Information
☐ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

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:
Lab Filter groundwater samples

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	TCL VOCs + TICs	TCL SVOCs + 20	TCL PCBs	TCL Pesticides	TCL Herbicides	TAL Metals (w/ Hexavalent Cr, Cyanide)	Dissolved Metals	TCLP Metals + RCRA Characteristics	Sample Specific Comments	Total Bottle
2285-01	SB-01 (0-2)	5/9/22	0855	S	E.W.	✓									
	SB-01 (			S	E.W.		✓	✓	✓	✓					
	COMP SB-01 (			S	E.W.								✓		
	SB-01 (			S	E.W.	✓									
-02	COMP SB-01 (0-4)		0940	S	E.W.		✓	✓	✓	✓	✓				
-03	COMP (SB-01)		0945	S	E.W.								✓		
-04	SB-07 (0-2)		1030	S	E.W.	✓									
-05	SB-07 (8-10)		1105	S	E.W.	✓									
-06	COMP SB-07 (0-20)		1110	S	E.W.								✓		
-07	TWP-07		1150	GW	E.W.	✓	✓	✓	✓	✓	✓	✓		Lab Filter	

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

Container Type														
Preservative														

Relinquished By:	Date/Time	Received By:	Date/Time
	5/9/22 1302		5/9/22 13:03
	5/9/22 18:06		5/9 1930
	5/9		5/9 21:00
	5/9 23:20		5/9/22 2320

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)

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

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 05/09/22

ALPHA Job # L2224285

Client Information
Client: Mattiv
Address: 533 W. 37th St, NY, NY
Phone:
Fax:
Email: bcrespi@mnwc.com

Project Information
Project Name: 20-1152 Battery Park
Project Location: Manhattan, NY
Project # 20-1152
(Use Project name as Project #) ☐
Project Manager: Brian Crespi
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

Billing Information
☐ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

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:
Lab Filter GW Sample

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	TCL VOCs 8260	TCL SVOCs 8270	TCL PCBs	TCL Pesticides	TCL Herbicides	TAL Metals, Hex Cr, Cyanide	Dissolved Metals	TCLP Metals (Lead, Chromium)	Sample Specific Comments	Total Bottle
24285-08	GW-DUP	5/9/22		GW	E.W.	✓	✓	✓	✓	✓	✓	✓		Lab Filter	
-09	TRIP Blank	5/5/22			DB	✓									
-10	SB-06 (0-2)	5/9/22		S	E.W.	✓									
-11	COMP SB-06 (0-5)	5/9/22		S	E.W.		✓	✓	✓	✓	✓				
-12	COMP (SB-06, SB-07)	5/9/22		S	E.W.								✓		

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

Container Type									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
	5/9/22 1303		5/9/22 13:03
ZAAAL	5/9/22 1810	ZAAAL	5/9 1930
	5/9		5/9 21:00
	5/9 2320		5/9/22 2320

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)

ANALYTICAL REPORT

Lab Number:	L2224463
Client:	Matrix New World Engineering, Inc. 333 West 39th Street, Second Floor New York City, NY 10018
ATTN:	Brian Crespi
Phone:	(212) 324-4251
Project Name:	20-1152 BATTERY PARK
Project Number:	20-1152
Report Date:	06/01/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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

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

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224463
Report Date: 06/01/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2224463-01	SB-09(0-2)	SOIL	MANHATTAN, NY	05/10/22 09:00	05/10/22
L2224463-02	COMP SB-09(0-5)	SOIL	MANHATTAN, NY	05/10/22 09:10	05/10/22
L2224463-03	SB-10(0-2)	SOIL	MANHATTAN, NY	05/10/22 09:30	05/10/22
L2224463-04	COMP SB-10(0-5)	SOIL	MANHATTAN, NY	05/10/22 09:40	05/10/22
L2224463-05	COMP(SB-09,SB-10)	SOIL	MANHATTAN, NY	05/10/22 09:45	05/10/22
L2224463-06	SOIL DUP	SOIL	MANHATTAN, NY	05/10/22 00:00	05/10/22

Project Name:	20-1152 BATTERY PARK	**Lab Number:**	L2224463
Project Number:	20-1152	**Report Date:**	06/01/22

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: 20-1152 BATTERY PARK **Lab Number:** L2224463
Project Number: 20-1152 **Report Date:** 06/01/22

Case Narrative (continued)

Report Submission
June 01, 2022: This final report includes the results of all requested analyses.
May 25, 2022: This is a preliminary report.

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

Volatile Organics
L2224463-01: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (38%) and the surrogate recovery for 4-bromofluorobenzene (133%) were outside the acceptance criteria; however, re-analysis achieved the following results: 1,4-dichlorobenzene-d4 (33%) and 4-bromofluorobenzene (144%). The results of both analyses are reported.
L2224463-03: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (40%) was below the acceptance criteria; however, re-analysis achieved the following result: 1,4-dichlorobenzene-d4 (48%). The results of both analyses are reported.
L2224463-06: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (46%) was outside the acceptance criteria; however, re-analysis achieved the following results: 1,4-dichlorobenzene-d4 (36%) and a high surrogate recovery for 4-bromofluorobenzene (141%). The results of both analyses are reported.

Semivolatile Organics
The WG1637978-2 LCS recovery, associated with L2224463-02, -04, and -06, is below the acceptance criteria for benzoic acid (0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Total Metals
L2224463-02, -04, and -06: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224463
Project Number: 20-1152 **Report Date:** 06/01/22

Case Narrative (continued)

The WG1644049-1 Method Blank, associated with L2224463-02, -04, and -06, has a concentration above the reporting limit for iron. Since the associated sample concentrations are either greater than 10x the blank concentration or non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".
The WG1644049-3 MS recoveries for aluminum (319%), calcium (268%), and iron (268%), performed on L2224463-02, do not apply because the sample concentrations are greater than four times the spike amounts added.
The WG1644049-3 MS recoveries, performed on L2224463-02, are outside the acceptance criteria for chromium (46%) and magnesium (210%). A post digestion spike was performed and was within acceptance criteria.
The WG1644049-4 Laboratory Duplicate RPDs for chromium (64%), nickel (64%), and zinc (30%), performed on L2224463-02, are outside the acceptance criteria. The elevated RPDs have been attributed to the non-homogeneous nature of the native sample.

Cyanide, Total
The WG1640934-2 LCS recovery for cyanide, total (78%), associated with L2224463-02, -04, and -06, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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: 06/01/22

ORGANICS

VOLATILES

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-01
Client ID: SB-09(0-2)
Sample Location: MANHATTAN, NY
Date Collected: 05/10/22 09:00
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/17/22 21:42
Analyst: JC
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.7	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.3	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.17	1
Dibromochloromethane	ND		ug/kg	1.3	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.36	1
Tetrachloroethene	0.40	J	ug/kg	0.67	0.26	1
Chlorobenzene	ND		ug/kg	0.67	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.3	0.93	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.67	0.22	1
Bromodichloromethane	ND		ug/kg	0.67	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.67	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.67	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.67	0.21	1
Bromoform	ND		ug/kg	5.3	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.67	0.22	1
Benzene	ND		ug/kg	0.67	0.22	1
Toluene	ND		ug/kg	1.3	0.72	1
Ethylbenzene	ND		ug/kg	1.3	0.19	1
Chloromethane	ND		ug/kg	5.3	1.2	1
Bromomethane	ND		ug/kg	2.7	0.78	1
Vinyl chloride	ND		ug/kg	1.3	0.45	1
Chloroethane	ND		ug/kg	2.7	0.60	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224463

Project Number: 20-1152 **Report Date:** 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-01 Date Collected: 05/10/22 09:00

Client ID: SB-09(0-2) Date Received: 05/10/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.67	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.75	1
o-Xylene	ND		ug/kg	1.3	0.39	1
Xylenes, Total	ND		ug/kg	1.3	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.7	0.32	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.4	1
Carbon disulfide	ND		ug/kg	13	6.1	1
2-Butanone	ND		ug/kg	13	3.0	1
Vinyl acetate	ND		ug/kg	13	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.7	0.17	1
2-Hexanone	ND		ug/kg	13	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.27	1
2,2-Dichloropropane	ND		ug/kg	2.7	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.37	1
1,3-Dichloropropane	ND		ug/kg	2.7	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.67	0.18	1
Bromobenzene	ND		ug/kg	2.7	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.20	1
tert-Butylbenzene	ND		ug/kg	2.7	0.16	1
o-Chlorotoluene	ND		ug/kg	2.7	0.26	1
p-Chlorotoluene	ND		ug/kg	2.7	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.3	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	1.6		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.3	0.87	1
Acrylonitrile	ND		ug/kg	5.3	1.5	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224463

Project Number: 20-1152 **Report Date:** 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-01 Date Collected: 05/10/22 09:00

Client ID: SB-09(0-2) Date Received: 05/10/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.43	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.45	1
1,4-Dioxane	ND		ug/kg	110	47.	1
p-Diethylbenzene	ND		ug/kg	2.7	0.24	1
p-Ethyltoluene	ND		ug/kg	2.7	0.51	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.7	0.26	1
Ethyl ether	ND		ug/kg	2.7	0.46	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.7	1.9	1
Tentatively Identified Compounds						
Total TIC Compounds	78.9	J	ug/kg			1
Unknown	13.0	J	ug/kg			1
Unknown	7.55	J	ug/kg			1
Unknown Limonene	9.76	J	ug/kg			1
Unknown	14.4	J	ug/kg			1
Unknown	34.2	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	119		70-130
4-Bromofluorobenzene	**133**	Q	70-130
Dibromofluoromethane	98		70-130

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-01 R
Client ID: SB-09(0-2)
Sample Location: MANHATTAN, NY

Date Collected: 05/10/22 09:00
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/18/22 13:00
Analyst: JC
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.1	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.61	0.24	1
Chlorobenzene	ND		ug/kg	0.61	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.85	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.61	0.20	1
Bromodichloromethane	ND		ug/kg	0.61	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.61	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.61	0.19	1
Bromoform	ND		ug/kg	4.9	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	0.20	1
Benzene	ND		ug/kg	0.61	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.9	1.1	1
Bromomethane	ND		ug/kg	2.4	0.71	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224463

Project Number: 20-1152 **Report Date:** 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-01 R
Client ID: SB-09(0-2)
Sample Location: MANHATTAN, NY

Date Collected: 05/10/22 09:00
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.61	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.68	1
o-Xylene	ND		ug/kg	1.2	0.36	1
Xylenes, Total	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.9	1
Carbon disulfide	ND		ug/kg	12	5.6	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.61	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	0.29	J	ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.9	0.79	1
Acrylonitrile	ND		ug/kg	4.9	1.4	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224463

Project Number: 20-1152 **Report Date:** 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-01 R Date Collected: 05/10/22 09:00
Client ID: SB-09(0-2) Date Received: 05/10/22
Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.41	1
1,4-Dioxane	ND		ug/kg	98	43.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.22	1
p-Ethyltoluene	ND		ug/kg	2.4	0.47	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.1	1.7	1
Tentatively Identified Compounds						
Total TIC Compounds	18.4	J	ug/kg			1
Cyclotrisiloxane, Hexamethyl-	5.58	NJ	ug/kg			1
Unknown	9.95	J	ug/kg			1
Unknown	2.82	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	123		70-130
4-Bromofluorobenzene	**144**	Q	70-130
Dibromofluoromethane	102		70-130

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-03
Client ID: SB-10(0-2)
Sample Location: MANHATTAN, NY
Date Collected: 05/10/22 09:30
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/17/22 22:07
Analyst: JC
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.4	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	0.13	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	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	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	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224463

Project Number: 20-1152 **Report Date:** 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-03 Date Collected: 05/10/22 09:30

Client ID: SB-10(0-2) Date Received: 05/10/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
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	0.22	1
p/m-Xylene	ND		ug/kg	2.1	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
Xylenes, Total	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.1	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.98	1
Acetone	ND		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.1	0.13	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.3	0.70	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224463
Project Number: 20-1152
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-03
Client ID: SB-10(0-2)
Sample Location: MANHATTAN, NY
Date Collected: 05/10/22 09:30
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.18	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.36	1
1,4-Dioxane	ND		ug/kg	86	38.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.19	1
p-Ethyltoluene	ND		ug/kg	2.1	0.41	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	118		70-130
4-Bromofluorobenzene	126		70-130
Dibromofluoromethane	96		70-130

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-03 R
Client ID: SB-10(0-2)
Sample Location: MANHATTAN, NY

Date Collected: 05/10/22 09:30
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/18/22 13:26
Analyst: KJD
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	13	6.0	1
1,1-Dichloroethane	ND		ug/kg	2.6	0.38	1
Chloroform	ND		ug/kg	3.9	0.37	1
Carbon tetrachloride	ND		ug/kg	2.6	0.60	1
1,2-Dichloropropane	ND		ug/kg	2.6	0.33	1
Dibromochloromethane	ND		ug/kg	2.6	0.37	1
1,1,2-Trichloroethane	ND		ug/kg	2.6	0.70	1
Tetrachloroethene	ND		ug/kg	1.3	0.51	1
Chlorobenzene	ND		ug/kg	1.3	0.33	1
Trichlorofluoromethane	ND		ug/kg	10	1.8	1
1,2-Dichloroethane	ND		ug/kg	2.6	0.67	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.44	1
Bromodichloromethane	ND		ug/kg	1.3	0.29	1
trans-1,3-Dichloropropene	ND		ug/kg	2.6	0.72	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.41	1
1,3-Dichloropropene, Total	ND		ug/kg	1.3	0.41	1
1,1-Dichloropropene	ND		ug/kg	1.3	0.42	1
Bromoform	ND		ug/kg	10	0.64	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.44	1
Benzene	ND		ug/kg	1.3	0.44	1
Toluene	ND		ug/kg	2.6	1.4	1
Ethylbenzene	ND		ug/kg	2.6	0.37	1
Chloromethane	ND		ug/kg	10	2.4	1
Bromomethane	ND		ug/kg	5.2	1.5	1
Vinyl chloride	ND		ug/kg	2.6	0.88	1
Chloroethane	ND		ug/kg	5.2	1.2	1
1,1-Dichloroethene	ND		ug/kg	2.6	0.62	1
trans-1,2-Dichloroethene	ND		ug/kg	3.9	0.36	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224463

Project Number: 20-1152 **Report Date:** 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-03 R
Client ID: SB-10(0-2)
Sample Location: MANHATTAN, NY

Date Collected: 05/10/22 09:30
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	1.3	0.36	1
1,2-Dichlorobenzene	ND		ug/kg	5.2	0.38	1
1,3-Dichlorobenzene	ND		ug/kg	5.2	0.39	1
1,4-Dichlorobenzene	ND		ug/kg	5.2	0.45	1
Methyl tert butyl ether	ND		ug/kg	5.2	0.53	1
p/m-Xylene	ND		ug/kg	5.2	1.5	1
o-Xylene	ND		ug/kg	2.6	0.76	1
Xylenes, Total	ND		ug/kg	2.6	0.76	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	0.46	1
1,2-Dichloroethene, Total	ND		ug/kg	2.6	0.36	1
Dibromomethane	ND		ug/kg	5.2	0.62	1
Styrene	ND		ug/kg	2.6	0.51	1
Dichlorodifluoromethane	ND		ug/kg	26	2.4	1
Acetone	ND		ug/kg	26	13.	1
Carbon disulfide	ND		ug/kg	26	12.	1
2-Butanone	ND		ug/kg	26	5.8	1
Vinyl acetate	ND		ug/kg	26	5.6	1
4-Methyl-2-pentanone	ND		ug/kg	26	3.4	1
1,2,3-Trichloropropane	ND		ug/kg	5.2	0.33	1
2-Hexanone	ND		ug/kg	26	3.1	1
Bromochloromethane	ND		ug/kg	5.2	0.54	1
2,2-Dichloropropane	ND		ug/kg	5.2	0.53	1
1,2-Dibromoethane	ND		ug/kg	2.6	0.73	1
1,3-Dichloropropane	ND		ug/kg	5.2	0.44	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.35	1
Bromobenzene	ND		ug/kg	5.2	0.38	1
n-Butylbenzene	ND		ug/kg	2.6	0.44	1
sec-Butylbenzene	ND		ug/kg	2.6	0.38	1
tert-Butylbenzene	ND		ug/kg	5.2	0.31	1
o-Chlorotoluene	ND		ug/kg	5.2	0.50	1
p-Chlorotoluene	ND		ug/kg	5.2	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.9	2.6	1
Hexachlorobutadiene	ND		ug/kg	10	0.44	1
Isopropylbenzene	ND		ug/kg	2.6	0.29	1
p-Isopropyltoluene	ND		ug/kg	2.6	0.29	1
Naphthalene	ND		ug/kg	10	1.7	1
Acrylonitrile	ND		ug/kg	10	3.0	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224463

Project Number: 20-1152 **Report Date:** 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-03 R
Client ID: SB-10(0-2)
Sample Location: MANHATTAN, NY

Date Collected: 05/10/22 09:30
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	2.6	0.45	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.2	0.84	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.2	0.71	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.2	0.51	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.2	0.88	1
1,4-Dioxane	ND		ug/kg	210	92.	1
p-Diethylbenzene	ND		ug/kg	5.2	0.46	1
p-Ethyltoluene	ND		ug/kg	5.2	1.0	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.2	0.50	1
Ethyl ether	ND		ug/kg	5.2	0.90	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	13	3.7	1
Tentatively Identified Compounds						
Total TIC Compounds	9.76	J	ug/kg			1
Cyclotrisiloxane, Hexamethyl-	9.76	NJ	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	129		70-130
Dibromofluoromethane	101		70-130

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-06
Client ID: SOIL DUP
Sample Location: MANHATTAN, NY

Date Collected: 05/10/22 00:00
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/17/22 22:32
Analyst: JC
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.92	0.13	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.92	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.92	0.12	1
Dibromochloromethane	ND		ug/kg	0.92	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.92	0.25	1
Tetrachloroethene	ND		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.64	1
1,2-Dichloroethane	ND		ug/kg	0.92	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.15	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.92	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.46	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.46	0.15	1
Bromoform	ND		ug/kg	3.7	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	ND		ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.92	0.50	1
Ethylbenzene	ND		ug/kg	0.92	0.13	1
Chloromethane	ND		ug/kg	3.7	0.86	1
Bromomethane	ND		ug/kg	1.8	0.54	1
Vinyl chloride	ND		ug/kg	0.92	0.31	1
Chloroethane	ND		ug/kg	1.8	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.92	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224463

Project Number: 20-1152 **Report Date:** 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-06 Date Collected: 05/10/22 00:00

Client ID: SOIL DUP Date Received: 05/10/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.46	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.52	1
o-Xylene	ND		ug/kg	0.92	0.27	1
Xylenes, Total	ND		ug/kg	0.92	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.92	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.92	0.13	1
Dibromomethane	ND		ug/kg	1.8	0.22	1
Styrene	ND		ug/kg	0.92	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.2	0.84	1
Acetone	ND		ug/kg	9.2	4.4	1
Carbon disulfide	ND		ug/kg	9.2	4.2	1
2-Butanone	ND		ug/kg	9.2	2.0	1
Vinyl acetate	ND		ug/kg	9.2	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.2	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.12	1
2-Hexanone	ND		ug/kg	9.2	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.92	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.46	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.92	0.15	1
sec-Butylbenzene	ND		ug/kg	0.92	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.11	1
o-Chlorotoluene	ND		ug/kg	1.8	0.18	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.92	1
Hexachlorobutadiene	ND		ug/kg	3.7	0.16	1
Isopropylbenzene	ND		ug/kg	0.92	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.92	0.10	1
Naphthalene	ND		ug/kg	3.7	0.60	1
Acrylonitrile	ND		ug/kg	3.7	1.1	1

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224463
Project Number: 20-1152
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-06
Client ID: SOIL DUP
Sample Location: MANHATTAN, NY
Date Collected: 05/10/22 00:00
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.92	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.31	1
1,4-Dioxane	ND		ug/kg	74	32.	1
p-Diethylbenzene	ND		ug/kg	1.8	0.16	1
p-Ethyltoluene	ND		ug/kg	1.8	0.36	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.8	0.18	1
Ethyl ether	ND		ug/kg	1.8	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	1.3	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	121		70-130
Dibromofluoromethane	98		70-130

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-06 R
Client ID: SOIL DUP
Sample Location: MANHATTAN, NY

Date Collected: 05/10/22 00:00
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/18/22 13:52
Analyst: KJD
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - 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	0.14	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	0.28	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	0.72	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
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-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	0.56	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	0.60	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

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224463

Project Number: 20-1152 **Report Date:** 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-06 R Date Collected: 05/10/22 00:00
Client ID: SOIL DUP Date Received: 05/10/22
Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
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
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.95	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.2	0.68	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224463

Project Number: 20-1152 **Report Date:** 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-06 R Date Collected: 05/10/22 00:00
Client ID: SOIL DUP Date Received: 05/10/22
Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	83	36.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.18	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1
Tentatively Identified Compounds						
Total TIC Compounds	6.75	J	ug/kg			1
Cyclotrisiloxane, Hexamethyl-	4.03	NJ	ug/kg			1
Pentane	2.72	NJ	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	119		70-130
4-Bromofluorobenzene	**141**	Q	70-130
Dibromofluoromethane	100		70-130

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/17/22 21:18
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,03,06 Batch: WG1639912-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/17/22 21:18
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,03,06 Batch: WG1639912-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/17/22 21:18
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,03,06 Batch: WG1639912-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Tentatively Identified Compounds			
Total TIC Compounds	4.79	J	ug/kg
Unknown	2.41	J	ug/kg
Unknown	2.38	J	ug/kg

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/17/22 21:18
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,03,06 Batch: WG1639912-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	95		70-130

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/18/22 11:41
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,03,06 Batch: WG1640549-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	0.78	J	ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/18/22 11:41
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,03,06 Batch: WG1640549-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/18/22 11:41
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,03,06 Batch: WG1640549-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Tentatively Identified Compounds			
Total TIC Compounds	3.89	J	ug/kg
Cyclotrisiloxane, Hexamethyl-	3.89	NJ	ug/kg

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/18/22 11:41
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,03,06 Batch: WG1640549-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224463

Report Date: 06/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,03,06 Batch: WG1639912-3 WG1639912-4								
Methylene chloride	99		98		70-130	1		30
1,1-Dichloroethane	113		111		70-130	2		30
Chloroform	102		100		70-130	2		30
Carbon tetrachloride	97		98		70-130	1		30
1,2-Dichloropropane	110		109		70-130	1		30
Dibromochloromethane	99		100		70-130	1		30
1,1,2-Trichloroethane	111		113		70-130	2		30
Tetrachloroethene	100		101		70-130	1		30
Chlorobenzene	106		104		70-130	2		30
Trichlorofluoromethane	111		112		70-139	1		30
1,2-Dichloroethane	103		103		70-130	0		30
1,1,1-Trichloroethane	106		104		70-130	2		30
Bromodichloromethane	103		102		70-130	1		30
trans-1,3-Dichloropropene	108		107		70-130	1		30
cis-1,3-Dichloropropene	104		104		70-130	0		30
1,1-Dichloropropene	104		105		70-130	1		30
Bromoform	95		99		70-130	4		30
1,1,2,2-Tetrachloroethane	114		117		70-130	3		30
Benzene	110		108		70-130	2		30
Toluene	107		104		70-130	3		30
Ethylbenzene	110		108		70-130	2		30
Chloromethane	113		110		52-130	3		30
Bromomethane	**149**	Q	**149**	Q	57-147	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224463

Report Date: 06/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,03,06 Batch: WG1639912-3 WG1639912-4								
Vinyl chloride	**142**	Q	**140**	Q	67-130	1		30
Chloroethane	128		126		50-151	2		30
1,1-Dichloroethene	103		102		65-135	1		30
trans-1,2-Dichloroethene	104		104		70-130	0		30
Trichloroethene	107		106		70-130	1		30
1,2-Dichlorobenzene	102		101		70-130	1		30
1,3-Dichlorobenzene	105		104		70-130	1		30
1,4-Dichlorobenzene	104		104		70-130	0		30
Methyl tert butyl ether	99		100		66-130	1		30
p/m-Xylene	110		109		70-130	1		30
o-Xylene	111		109		70-130	2		30
cis-1,2-Dichloroethene	104		102		70-130	2		30
Dibromomethane	98		100		70-130	2		30
Styrene	108		108		70-130	0		30
Dichlorodifluoromethane	87		87		30-146	0		30
Acetone	90		92		54-140	2		30
Carbon disulfide	106		105		59-130	1		30
2-Butanone	95		99		70-130	4		30
Vinyl acetate	102		106		70-130	4		30
4-Methyl-2-pentanone	112		118		70-130	5		30
1,2,3-Trichloropropane	116		119		68-130	3		30
2-Hexanone	94		97		70-130	3		30
Bromochloromethane	96		95		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224463

Report Date: 06/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,03,06 Batch: WG1639912-3 WG1639912-4								
2,2-Dichloropropane	105		103		70-130	2		30
1,2-Dibromoethane	104		105		70-130	1		30
1,3-Dichloropropane	110		110		69-130	0		30
1,1,1,2-Tetrachloroethane	104		104		70-130	0		30
Bromobenzene	99		99		70-130	0		30
n-Butylbenzene	120		120		70-130	0		30
sec-Butylbenzene	115		115		70-130	0		30
tert-Butylbenzene	108		107		70-130	1		30
o-Chlorotoluene	114		112		70-130	2		30
p-Chlorotoluene	113		111		70-130	2		30
1,2-Dibromo-3-chloropropane	87		91		68-130	4		30
Hexachlorobutadiene	90		90		67-130	0		30
Isopropylbenzene	112		110		70-130	2		30
p-Isopropyltoluene	109		108		70-130	1		30
Naphthalene	93		95		70-130	2		30
Acrylonitrile	106		109		70-130	3		30
n-Propylbenzene	118		117		70-130	1		30
1,2,3-Trichlorobenzene	93		93		70-130	0		30
1,2,4-Trichlorobenzene	94		94		70-130	0		30
1,3,5-Trimethylbenzene	114		111		70-130	3		30
1,2,4-Trimethylbenzene	112		110		70-130	2		30
1,4-Dioxane	105		112		65-136	6		30
p-Diethylbenzene	110		109		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224463
Report Date: 06/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,03,06 Batch: WG1639912-3 WG1639912-4								
p-Ethyltoluene	114		112		70-130	2		30
1,2,4,5-Tetramethylbenzene	104		103		70-130	1		30
Ethyl ether	105		105		67-130	0		30
trans-1,4-Dichloro-2-butene	115		119		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		105		70-130
Toluene-d8	106		103		70-130
4-Bromofluorobenzene	101		98		70-130
Dibromofluoromethane	95		94		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224463

Report Date: 06/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,03,06 Batch: WG1640549-3 WG1640549-4								
Methylene chloride	104		105		70-130	1		30
1,1-Dichloroethane	116		116		70-130	0		30
Chloroform	106		105		70-130	1		30
Carbon tetrachloride	114		115		70-130	1		30
1,2-Dichloropropane	113		112		70-130	1		30
Dibromochloromethane	98		98		70-130	0		30
1,1,2-Trichloroethane	106		105		70-130	1		30
Tetrachloroethene	112		110		70-130	2		30
Chlorobenzene	105		104		70-130	1		30
Trichlorofluoromethane	**147**	Q	**150**	Q	70-139	2		30
1,2-Dichloroethane	108		106		70-130	2		30
1,1,1-Trichloroethane	118		116		70-130	2		30
Bromodichloromethane	104		105		70-130	1		30
trans-1,3-Dichloropropene	112		110		70-130	2		30
cis-1,3-Dichloropropene	109		108		70-130	1		30
1,1-Dichloropropene	125		126		70-130	1		30
Bromoform	93		91		70-130	2		30
1,1,2,2-Tetrachloroethane	109		106		70-130	3		30
Benzene	112		113		70-130	1		30
Toluene	112		112		70-130	0		30
Ethylbenzene	114		114		70-130	0		30
Chloromethane	129		125		52-130	3		30
Bromomethane	124		125		57-147	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224463
Report Date: 06/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,03,06 Batch: WG1640549-3 WG1640549-4								
Vinyl chloride	**138**	Q	**143**	Q	67-130	4		30
Chloroethane	136		140		50-151	3		30
1,1-Dichloroethene	116		117		65-135	1		30
trans-1,2-Dichloroethene	114		113		70-130	1		30
Trichloroethene	108		109		70-130	1		30
1,2-Dichlorobenzene	100		100		70-130	0		30
1,3-Dichlorobenzene	105		104		70-130	1		30
1,4-Dichlorobenzene	103		102		70-130	1		30
Methyl tert butyl ether	107		105		66-130	2		30
p/m-Xylene	112		111		70-130	1		30
o-Xylene	109		108		70-130	1		30
cis-1,2-Dichloroethene	107		108		70-130	1		30
Dibromomethane	103		103		70-130	0		30
Styrene	105		105		70-130	0		30
Dichlorodifluoromethane	117		115		30-146	2		30
Acetone	112		93		54-140	19		30
Carbon disulfide	112		114		59-130	2		30
2-Butanone	103		100		70-130	3		30
Vinyl acetate	127		125		70-130	2		30
4-Methyl-2-pentanone	109		107		70-130	2		30
1,2,3-Trichloropropane	105		102		68-130	3		30
2-Hexanone	111		106		70-130	5		30
Bromochloromethane	104		103		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224463

Report Date: 06/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,03,06 Batch: WG1640549-3 WG1640549-4								
2,2-Dichloropropane	120		120		70-130	0		30
1,2-Dibromoethane	101		100		70-130	1		30
1,3-Dichloropropane	108		106		69-130	2		30
1,1,1,2-Tetrachloroethane	102		99		70-130	3		30
Bromobenzene	101		99		70-130	2		30
n-Butylbenzene	123		123		70-130	0		30
sec-Butylbenzene	120		119		70-130	1		30
tert-Butylbenzene	115		114		70-130	1		30
o-Chlorotoluene	111		112		70-130	1		30
p-Chlorotoluene	112		111		70-130	1		30
1,2-Dibromo-3-chloropropane	90		92		68-130	2		30
Hexachlorobutadiene	99		100		67-130	1		30
Isopropylbenzene	118		118		70-130	0		30
p-Isopropyltoluene	116		116		70-130	0		30
Naphthalene	98		98		70-130	0		30
Acrylonitrile	108		106		70-130	2		30
n-Propylbenzene	120		120		70-130	0		30
1,2,3-Trichlorobenzene	96		96		70-130	0		30
1,2,4-Trichlorobenzene	102		100		70-130	2		30
1,3,5-Trimethylbenzene	115		113		70-130	2		30
1,2,4-Trimethylbenzene	113		112		70-130	1		30
1,4-Dioxane	109		102		65-136	7		30
p-Diethylbenzene	115		116		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224463

Report Date: 06/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,03,06 Batch: WG1640549-3 WG1640549-4								
p-Ethyltoluene	116		115		70-130	1		30
1,2,4,5-Tetramethylbenzene	108		108		70-130	0		30
Ethyl ether	111		108		67-130	3		30
trans-1,4-Dichloro-2-butene	119		117		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		100		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	103		101		70-130
Dibromofluoromethane	98		98		70-130

SEMIVOLATILES

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-02
Client ID: COMP SB-09(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/10/22 09:10
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/13/22 21:46
Analyst: EK
Percent Solids: 71%

Extraction Method: EPA 3546
Extraction Date: 05/13/22 00:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	34	J	ug/kg	180	24.	1
1,2,4-Trichlorobenzene	ND		ug/kg	230	26.	1
Hexachlorobenzene	ND		ug/kg	140	26.	1
Bis(2-chloroethyl)ether	ND		ug/kg	210	31.	1
2-Chloronaphthalene	ND		ug/kg	230	23.	1
1,2-Dichlorobenzene	ND		ug/kg	230	41.	1
1,3-Dichlorobenzene	ND		ug/kg	230	40.	1
1,4-Dichlorobenzene	ND		ug/kg	230	40.	1
3,3'-Dichlorobenzidine	ND		ug/kg	230	61.	1
2,4-Dinitrotoluene	ND		ug/kg	230	46.	1
2,6-Dinitrotoluene	ND		ug/kg	230	39.	1
Fluoranthene	640		ug/kg	140	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	230	25.	1
4-Bromophenyl phenyl ether	ND		ug/kg	230	35.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	280	39.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	250	23.	1
Hexachlorobutadiene	ND		ug/kg	230	34.	1
Hexachlorocyclopentadiene	ND		ug/kg	660	210	1
Hexachloroethane	ND		ug/kg	180	37.	1
Isophorone	ND		ug/kg	210	30.	1
Naphthalene	48	J	ug/kg	230	28.	1
Nitrobenzene	ND		ug/kg	210	34.	1
NDPA/DPA	ND		ug/kg	180	26.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	230	36.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	230	80.	1
Butyl benzyl phthalate	ND		ug/kg	230	58.	1
Di-n-butylphthalate	ND		ug/kg	230	44.	1
Di-n-octylphthalate	ND		ug/kg	230	78.	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224463

Project Number: 20-1152 **Report Date:** 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-02 Date Collected: 05/10/22 09:10

Client ID: COMP SB-09(0-5) Date Received: 05/10/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	230	21.	1
Dimethyl phthalate	ND		ug/kg	230	48.	1
Benzo(a)anthracene	350		ug/kg	140	26.	1
Benzo(a)pyrene	390		ug/kg	180	56.	1
Benzo(b)fluoranthene	460		ug/kg	140	39.	1
Benzo(k)fluoranthene	160		ug/kg	140	37.	1
Chrysene	340		ug/kg	140	24.	1
Acenaphthylene	ND		ug/kg	180	36.	1
Anthracene	110	J	ug/kg	140	45.	1
Benzo(ghi)perylene	260		ug/kg	180	27.	1
Fluorene	42	J	ug/kg	230	22.	1
Phenanthrene	360		ug/kg	140	28.	1
Dibenzo(a,h)anthracene	64	J	ug/kg	140	26.	1
Indeno(1,2,3-cd)pyrene	300		ug/kg	180	32.	1
Pyrene	570		ug/kg	140	23.	1
Biphenyl	ND		ug/kg	520	30.	1
4-Chloroaniline	ND		ug/kg	230	42.	1
2-Nitroaniline	ND		ug/kg	230	44.	1
3-Nitroaniline	ND		ug/kg	230	43.	1
4-Nitroaniline	ND		ug/kg	230	95.	1
Dibenzofuran	26	J	ug/kg	230	22.	1
2-Methylnaphthalene	ND		ug/kg	280	28.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	230	24.	1
Acetophenone	ND		ug/kg	230	28.	1
2,4,6-Trichlorophenol	ND		ug/kg	140	44.	1
p-Chloro-m-cresol	ND		ug/kg	230	34.	1
2-Chlorophenol	ND		ug/kg	230	27.	1
2,4-Dichlorophenol	ND		ug/kg	210	37.	1
2,4-Dimethylphenol	ND		ug/kg	230	76.	1
2-Nitrophenol	ND		ug/kg	500	86.	1
4-Nitrophenol	ND		ug/kg	320	94.	1
2,4-Dinitrophenol	ND		ug/kg	1100	110	1
4,6-Dinitro-o-cresol	ND		ug/kg	600	110	1
Pentachlorophenol	ND		ug/kg	180	50.	1
Phenol	ND		ug/kg	230	35.	1
2-Methylphenol	ND		ug/kg	230	36.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	330	36.	1

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224463
Project Number: 20-1152
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-02
Client ID: COMP SB-09(0-5)
Sample Location: MANHATTAN, NY
Date Collected: 05/10/22 09:10
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	230	44.	1
Benzoic Acid	ND		ug/kg	740	230	1
Benzyl Alcohol	ND		ug/kg	230	70.	1
Carbazole	38	J	ug/kg	230	22.	1
1,4-Dioxane	ND		ug/kg	34	10.	1
Tentatively Identified Compounds						
Total TIC Compounds	1830	J	ug/kg			1
Unknown Organic Acid	476	J	ug/kg			1
Unknown	317	J	ug/kg			1
Unknown	525	J	ug/kg			1
Unknown PAH	510	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	45		18-120

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-04
Client ID: COMP SB-10(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/10/22 09:40
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/13/22 22:10
Analyst: EK
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/13/22 00:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	26.	1
2-Chloronaphthalene	ND		ug/kg	200	19.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	420		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	49.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224463

Project Number: 20-1152 **Report Date:** 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-04 Date Collected: 05/10/22 09:40

Client ID: COMP SB-10(0-5) Date Received: 05/10/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	240		ug/kg	120	22.	1
Benzo(a)pyrene	270		ug/kg	160	48.	1
Benzo(b)fluoranthene	320		ug/kg	120	33.	1
Benzo(k)fluoranthene	120		ug/kg	120	31.	1
Chrysene	240		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	62	J	ug/kg	120	38.	1
Benzo(ghi)perylene	180		ug/kg	160	23.	1
Fluorene	20	J	ug/kg	200	19.	1
Phenanthrene	200		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	45	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	210		ug/kg	160	27.	1
Pyrene	380		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	450	25.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	ND		ug/kg	200	18.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	270	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224463
Project Number: 20-1152
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-04
Client ID: COMP SB-10(0-5)
Sample Location: MANHATTAN, NY
Date Collected: 05/10/22 09:40
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	24	J	ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	29	9.0	1
Tentatively Identified Compounds						
Total TIC Compounds	490	J	ug/kg			1
Unknown PAH	309	J	ug/kg			1
Unknown	181	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	38		18-120

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-06
Client ID: SOIL DUP
Sample Location: MANHATTAN, NY

Date Collected: 05/10/22 00:00
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/13/22 22:34
Analyst: EK
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 05/13/22 00:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	38	J	ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	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
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	820		ug/kg	120	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	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	34	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	30.	1
Bis(2-ethylhexyl)phthalate	5200		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	65.	1

Project Name: 20-1152 BATTERY PARK **Lab Number:** L2224463

Project Number: 20-1152 **Report Date:** 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-06 Date Collected: 05/10/22 00:00

Client ID: SOIL DUP Date Received: 05/10/22

Sample Location: MANHATTAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	440		ug/kg	120	22.	1
Benzo(a)pyrene	460		ug/kg	150	47.	1
Benzo(b)fluoranthene	600		ug/kg	120	32.	1
Benzo(k)fluoranthene	170		ug/kg	120	31.	1
Chrysene	430		ug/kg	120	20.	1
Acenaphthylene	60	J	ug/kg	150	30.	1
Anthracene	130		ug/kg	120	38.	1
Benzo(ghi)perylene	310		ug/kg	150	23.	1
Fluorene	43	J	ug/kg	190	19.	1
Phenanthrene	480		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	78	J	ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	360		ug/kg	150	27.	1
Pyrene	730		ug/kg	120	19.	1
Biphenyl	ND		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	28	J	ug/kg	190	18.	1
2-Methylnaphthalene	ND		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	36.	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	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	420	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224463
Project Number: 20-1152
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-06
Client ID: SOIL DUP
Sample Location: MANHATTAN, NY
Date Collected: 05/10/22 00:00
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	48	J	ug/kg	190	19.	1
1,4-Dioxane	ND		ug/kg	29	8.8	1
Tentatively Identified Compounds						
Total TIC Compounds	1580	J	ug/kg			1
Unknown PAH	447	J	ug/kg			1
Unknown	206	J	ug/kg			1
Unknown PAH	466	J	ug/kg			1
Unknown	456	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	45		18-120

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/13/22 16:15
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 05/12/22 23:55

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,04,06 Batch: WG1637978-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/13/22 16:15
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 05/12/22 23:55

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,04,06 Batch: WG1637978-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/13/22 16:15
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 05/12/22 23:55

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,04,06 Batch: WG1637978-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	66		10-136
4-Terphenyl-d14	75		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224463

Report Date: 06/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04,06 Batch: WG1637978-2 WG1637978-3								
Acenaphthene	82		85		31-137	4		50
1,2,4-Trichlorobenzene	76		75		38-107	1		50
Hexachlorobenzene	87		89		40-140	2		50
Bis(2-chloroethyl)ether	72		74		40-140	3		50
2-Chloronaphthalene	80		84		40-140	5		50
1,2-Dichlorobenzene	73		76		40-140	4		50
1,3-Dichlorobenzene	73		78		40-140	7		50
1,4-Dichlorobenzene	72		76		28-104	5		50
3,3'-Dichlorobenzidine	72		71		40-140	1		50
2,4-Dinitrotoluene	84		87		40-132	4		50
2,6-Dinitrotoluene	82		86		40-140	5		50
Fluoranthene	87		87		40-140	0		50
4-Chlorophenyl phenyl ether	82		84		40-140	2		50
4-Bromophenyl phenyl ether	88		89		40-140	1		50
Bis(2-chloroisopropyl)ether	76		76		40-140	0		50
Bis(2-chloroethoxy)methane	70		75		40-117	7		50
Hexachlorobutadiene	81		85		40-140	5		50
Hexachlorocyclopentadiene	84		87		40-140	4		50
Hexachloroethane	65		69		40-140	6		50
Isophorone	70		71		40-140	1		50
Naphthalene	79		81		40-140	3		50
Nitrobenzene	70		72		40-140	3		50
NDPA/DPA	88		89		36-157	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224463

Report Date: 06/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04,06 Batch: WG1637978-2 WG1637978-3								
n-Nitrosodi-n-propylamine	68		72		32-121	6		50
Bis(2-ethylhexyl)phthalate	86		89		40-140	3		50
Butyl benzyl phthalate	79		80		40-140	1		50
Di-n-butylphthalate	85		85		40-140	0		50
Di-n-octylphthalate	83		87		40-140	5		50
Diethyl phthalate	80		81		40-140	1		50
Dimethyl phthalate	80		86		40-140	7		50
Benzo(a)anthracene	87		88		40-140	1		50
Benzo(a)pyrene	88		88		40-140	0		50
Benzo(b)fluoranthene	87		88		40-140	1		50
Benzo(k)fluoranthene	86		86		40-140	0		50
Chrysene	84		84		40-140	0		50
Acenaphthylene	84		86		40-140	2		50
Anthracene	86		85		40-140	1		50
Benzo(ghi)perylene	85		87		40-140	2		50
Fluorene	85		87		40-140	2		50
Phenanthrene	84		84		40-140	0		50
Dibenzo(a,h)anthracene	86		88		40-140	2		50
Indeno(1,2,3-cd)pyrene	97		99		40-140	2		50
Pyrene	86		85		35-142	1		50
Biphenyl	82		85		37-127	4		50
4-Chloroaniline	73		76		40-140	4		50
2-Nitroaniline	83		84		47-134	1		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224463
Report Date: 06/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04,06 Batch: WG1637978-2 WG1637978-3								
3-Nitroaniline	76		76		26-129	0		50
4-Nitroaniline	83		84		41-125	1		50
Dibenzofuran	84		86		40-140	2		50
2-Methylnaphthalene	82		86		40-140	5		50
1,2,4,5-Tetrachlorobenzene	84		88		40-117	5		50
Acetophenone	71		72		14-144	1		50
2,4,6-Trichlorophenol	84		88		30-130	5		50
p-Chloro-m-cresol	80		82		26-103	2		50
2-Chlorophenol	78		80		25-102	3		50
2,4-Dichlorophenol	80		83		30-130	4		50
2,4-Dimethylphenol	73		76		30-130	4		50
2-Nitrophenol	72		75		30-130	4		50
4-Nitrophenol	72		74		11-114	3		50
2,4-Dinitrophenol	44		75		4-130	**52**	Q	50
4,6-Dinitro-o-cresol	73		78		10-130	7		50
Pentachlorophenol	68		78		17-109	14		50
Phenol	77		78		26-90	1		50
2-Methylphenol	78		82		30-130.	5		50
3-Methylphenol/4-Methylphenol	78		79		30-130	1		50
2,4,5-Trichlorophenol	85		92		30-130	8		50
Benzoic Acid	**0**	Q	62		10-110	NC		50
Benzyl Alcohol	73		77		40-140	5		50
Carbazole	85		84		54-128	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224463

Report Date: 06/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04,06 Batch: WG1637978-2 WG1637978-3								
1,4-Dioxane	52		56		40-140	7		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	75		75		25-120
Phenol-d6	75		75		10-120
Nitrobenzene-d5	64		66		23-120
2-Fluorobiphenyl	77		78		30-120
2,4,6-Tribromophenol	84		86		10-136
4-Terphenyl-d14	77		78		18-120

PCBS

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-02
Client ID: COMP SB-09(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/10/22 09:10
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/16/22 11:18
Analyst: MEO
Percent Solids: 71%

Extraction Method: EPA 3546
Extraction Date: 05/13/22 05:58
Cleanup Method: EPA 3665A
Cleanup Date: 05/14/22
Cleanup Method: EPA 3665A
Cleanup Date: 05/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	44.9	3.99	1	A
Aroclor 1221	ND		ug/kg	44.9	4.50	1	A
Aroclor 1232	ND		ug/kg	44.9	9.52	1	A
Aroclor 1242	ND		ug/kg	44.9	6.06	1	A
Aroclor 1248	ND		ug/kg	44.9	6.74	1	A
Aroclor 1254	ND		ug/kg	44.9	4.92	1	A
Aroclor 1260	18.0	J	ug/kg	44.9	8.30	1	A
Aroclor 1262	ND		ug/kg	44.9	5.71	1	A
Aroclor 1268	5.40	J	ug/kg	44.9	4.65	1	B
PCBs, Total	23.4	J	ug/kg	44.9	3.99	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-04
Client ID: COMP SB-10(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/10/22 09:40
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/16/22 11:31
Analyst: MEO
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/13/22 05:58
Cleanup Method: EPA 3665A
Cleanup Date: 05/14/22
Cleanup Method: EPA 3665A
Cleanup Date: 05/14/22

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	18.5	J	ug/kg	38.3	7.08	1	B
Aroclor 1262	ND		ug/kg	38.3	4.86	1	A
Aroclor 1268	ND		ug/kg	38.3	3.97	1	A
PCBs, Total	18.5	J	ug/kg	38.3	3.40	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-06
Client ID: SOIL DUP
Sample Location: MANHATTAN, NY

Date Collected: 05/10/22 00:00
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/16/22 11:44
Analyst: MEO
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 05/13/22 05:58
Cleanup Method: EPA 3665A
Cleanup Date: 05/14/22
Cleanup Method: EPA 3665A
Cleanup Date: 05/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.8	3.36	1	A
Aroclor 1221	ND		ug/kg	37.8	3.79	1	A
Aroclor 1232	ND		ug/kg	37.8	8.01	1	A
Aroclor 1242	ND		ug/kg	37.8	5.09	1	A
Aroclor 1248	ND		ug/kg	37.8	5.67	1	A
Aroclor 1254	ND		ug/kg	37.8	4.13	1	A
Aroclor 1260	22.3	J	ug/kg	37.8	6.98	1	B
Aroclor 1262	ND		ug/kg	37.8	4.80	1	A
Aroclor 1268	ND		ug/kg	37.8	3.92	1	A
PCBs, Total	22.3	J	ug/kg	37.8	3.36	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/13/22 17:21
Analyst: ER

Extraction Method: EPA 3546
Extraction Date: 05/12/22 21:34
Cleanup Method: EPA 3665A
Cleanup Date: 05/13/22
Cleanup Method: EPA 3665A
Cleanup Date: 05/13/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02,04,06 Batch: WG1637963-1						
Aroclor 1016	ND		ug/kg	31.9	2.83	A
Aroclor 1221	ND		ug/kg	31.9	3.19	A
Aroclor 1232	ND		ug/kg	31.9	6.76	A
Aroclor 1242	ND		ug/kg	31.9	4.30	A
Aroclor 1248	ND		ug/kg	31.9	4.78	A
Aroclor 1254	ND		ug/kg	31.9	3.49	A
Aroclor 1260	ND		ug/kg	31.9	5.89	A
Aroclor 1262	ND		ug/kg	31.9	4.05	A
Aroclor 1268	ND		ug/kg	31.9	3.30	A
PCBs, Total	ND		ug/kg	31.9	2.83	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	54		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224463
Report Date: 06/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02,04,06 Batch: WG1637963-2 WG1637963-3									
Aroclor 1016	62		65		40-140	5		50	A
Aroclor 1260	54		55		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		62		30-150	A
Decachlorobiphenyl	61		62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		62		30-150	B
Decachlorobiphenyl	55		56		30-150	B

PESTICIDES

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-02
Client ID: COMP SB-09(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/10/22 09:10
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/16/22 15:26
Analyst: MMG
Percent Solids: 71%

Extraction Method: EPA 3546
Extraction Date: 05/13/22 02:11
Cleanup Method: EPA 3620B
Cleanup Date: 05/14/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/16/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.16	0.423	1	A
Lindane	ND		ug/kg	0.901	0.403	1	A
Alpha-BHC	ND		ug/kg	0.901	0.256	1	A
Beta-BHC	ND		ug/kg	2.16	0.820	1	A
Heptachlor	1.16	IP	ug/kg	1.08	0.485	1	B
Aldrin	ND		ug/kg	2.16	0.761	1	A
Heptachlor epoxide	ND	IP	ug/kg	4.05	1.22	1	A
Endrin	ND		ug/kg	0.901	0.369	1	A
Endrin aldehyde	ND		ug/kg	2.70	0.946	1	A
Endrin ketone	ND		ug/kg	2.16	0.557	1	A
Dieldrin	3.00		ug/kg	1.35	0.676	1	B
4,4'-DDE	4.31	P	ug/kg	2.16	0.500	1	A
4,4'-DDD	ND		ug/kg	2.16	0.771	1	A
4,4'-DDT	4.94	IP	ug/kg	4.05	1.74	1	A
Endosulfan I	ND		ug/kg	2.16	0.511	1	A
Endosulfan II	ND		ug/kg	2.16	0.722	1	A
Endosulfan sulfate	ND		ug/kg	0.901	0.429	1	A
Methoxychlor	ND		ug/kg	4.05	1.26	1	A
Toxaphene	ND		ug/kg	40.5	11.4	1	A
cis-Chlordane	9.40	P	ug/kg	2.70	0.753	1	A
trans-Chlordane	5.94		ug/kg	2.70	0.714	1	A
Chlordane	ND		ug/kg	18.0	7.16	1	A

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224463
Project Number: 20-1152
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-02
Client ID: COMP SB-09(0-5)
Sample Location: MANHATTAN, NY
Date Collected: 05/10/22 09:10
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224463
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-02
Client ID: COMP SB-09(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/10/22 09:10
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/18/22 00:10
Analyst: EJL
Percent Solids: 71%
Methylation Date: 05/17/22 07:18

Extraction Method: EPA 8151A
Extraction Date: 05/14/22 08:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	229	14.4	1	A
2,4,5-T	ND		ug/kg	229	7.11	1	A
2,4,5-TP (Silvex)	ND		ug/kg	229	6.10	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	114		30-150	A
DCAA	96		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-04
Client ID: COMP SB-10(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/10/22 09:40
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/16/22 14:48
Analyst: MMG
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/13/22 02:12
Cleanup Method: EPA 3620B
Cleanup Date: 05/14/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/16/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.83	0.358	1	A
Lindane	ND		ug/kg	0.763	0.341	1	A
Alpha-BHC	ND		ug/kg	0.763	0.217	1	A
Beta-BHC	ND		ug/kg	1.83	0.694	1	A
Heptachlor	ND		ug/kg	0.915	0.410	1	A
Aldrin	ND		ug/kg	1.83	0.644	1	A
Heptachlor epoxide	ND		ug/kg	3.43	1.03	1	A
Endrin	ND		ug/kg	0.763	0.313	1	A
Endrin aldehyde	ND		ug/kg	2.29	0.801	1	A
Endrin ketone	ND		ug/kg	1.83	0.471	1	A
Dieldrin	ND		ug/kg	1.14	0.572	1	A
4,4'-DDE	4.35		ug/kg	1.83	0.423	1	A
4,4'-DDD	1.19	J	ug/kg	1.83	0.653	1	A
4,4'-DDT	3.72	IP	ug/kg	3.43	1.47	1	A
Endosulfan I	ND		ug/kg	1.83	0.432	1	A
Endosulfan II	ND		ug/kg	1.83	0.612	1	A
Endosulfan sulfate	ND		ug/kg	0.763	0.363	1	A
Methoxychlor	ND		ug/kg	3.43	1.07	1	A
Toxaphene	ND		ug/kg	34.3	9.61	1	A
cis-Chlordane	6.02	IP	ug/kg	2.29	0.638	1	B
trans-Chlordane	5.57		ug/kg	2.29	0.604	1	A
Chlordane	40.9		ug/kg	15.2	6.06	1	A

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224463
Project Number: 20-1152
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-04
Client ID: COMP SB-10(0-5)
Sample Location: MANHATTAN, NY
Date Collected: 05/10/22 09:40
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-04
Client ID: COMP SB-10(0-5)
Sample Location: MANHATTAN, NY

Date Collected: 05/10/22 09:40
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/18/22 00:28
Analyst: EJL
Percent Solids: 84%
Methylation Date: 05/17/22 07:18

Extraction Method: EPA 8151A
Extraction Date: 05/14/22 08:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	194	12.2	1	A
2,4,5-T	ND		ug/kg	194	6.00	1	A
2,4,5-TP (Silvex)	ND		ug/kg	194	5.15	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	110		30-150	A
DCAA	95		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-06
Client ID: SOIL DUP
Sample Location: MANHATTAN, NY

Date Collected: 05/10/22 00:00
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/16/22 15:01
Analyst: MMG
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 05/13/22 02:12
Cleanup Method: EPA 3620B
Cleanup Date: 05/14/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/16/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.79	0.351	1	A
Lindane	ND		ug/kg	0.747	0.334	1	A
Alpha-BHC	ND		ug/kg	0.747	0.212	1	A
Beta-BHC	ND		ug/kg	1.79	0.680	1	A
Heptachlor	ND		ug/kg	0.896	0.402	1	A
Aldrin	ND		ug/kg	1.79	0.631	1	A
Heptachlor epoxide	ND		ug/kg	3.36	1.01	1	A
Endrin	ND		ug/kg	0.747	0.306	1	A
Endrin aldehyde	ND		ug/kg	2.24	0.784	1	A
Endrin ketone	ND		ug/kg	1.79	0.461	1	A
Dieldrin	ND		ug/kg	1.12	0.560	1	A
4,4'-DDE	4.01		ug/kg	1.79	0.414	1	A
4,4'-DDD	1.98		ug/kg	1.79	0.639	1	A
4,4'-DDT	4.22	IP	ug/kg	3.36	1.44	1	A
Endosulfan I	ND		ug/kg	1.79	0.423	1	A
Endosulfan II	ND		ug/kg	1.79	0.599	1	A
Endosulfan sulfate	ND		ug/kg	0.747	0.355	1	A
Methoxychlor	ND		ug/kg	3.36	1.04	1	A
Toxaphene	ND		ug/kg	33.6	9.41	1	A
cis-Chlordane	5.78	IP	ug/kg	2.24	0.624	1	B
trans-Chlordane	6.40		ug/kg	2.24	0.591	1	A
Chlordane	41.0		ug/kg	14.9	5.94	1	A

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224463
Project Number: 20-1152
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-06
Client ID: SOIL DUP
Sample Location: MANHATTAN, NY
Date Collected: 05/10/22 00:00
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-06
Client ID: SOIL DUP
Sample Location: MANHATTAN, NY

Date Collected: 05/10/22 00:00
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/18/22 15:23
Analyst: EJL
Percent Solids: 85%
Methylation Date: 05/17/22 07:18

Extraction Method: EPA 8151A
Extraction Date: 05/14/22 08:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	192	12.1	1	A
2,4,5-T	ND		ug/kg	192	5.94	1	A
2,4,5-TP (Silvex)	ND		ug/kg	192	5.10	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	96		30-150	A
DCAA	90		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/14/22 16:02
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 05/13/22 02:31
Cleanup Method: EPA 3620B
Cleanup Date: 05/14/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02,04,06 Batch: WG1637995-1						
Delta-BHC	ND		ug/kg	1.56	0.306	A
Lindane	ND		ug/kg	0.652	0.291	A
Alpha-BHC	ND		ug/kg	0.652	0.185	A
Beta-BHC	ND		ug/kg	1.56	0.593	A
Heptachlor	ND		ug/kg	0.782	0.351	A
Aldrin	ND		ug/kg	1.56	0.551	A
Heptachlor epoxide	ND		ug/kg	2.93	0.880	A
Endrin	ND		ug/kg	0.652	0.267	A
Endrin aldehyde	ND		ug/kg	1.96	0.684	A
Endrin ketone	ND		ug/kg	1.56	0.403	A
Dieldrin	ND		ug/kg	0.978	0.489	A
4,4'-DDE	ND		ug/kg	1.56	0.362	A
4,4'-DDD	ND		ug/kg	1.56	0.558	A
4,4'-DDT	ND		ug/kg	2.93	1.26	A
Endosulfan I	ND		ug/kg	1.56	0.370	A
Endosulfan II	ND		ug/kg	1.56	0.523	A
Endosulfan sulfate	ND		ug/kg	0.652	0.310	A
Methoxychlor	ND		ug/kg	2.93	0.913	A
Toxaphene	ND		ug/kg	29.3	8.21	A
cis-Chlordane	ND		ug/kg	1.96	0.545	A
trans-Chlordane	ND		ug/kg	1.96	0.516	A
Chlordane	ND		ug/kg	13.0	5.18	A

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/14/22 16:02
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 05/13/22 02:31
Cleanup Method: EPA 3620B
Cleanup Date: 05/14/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/14/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02,04,06 Batch: WG1637995-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	88		30-150	B

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 05/17/22 18:54
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 05/14/22 08:04

Methylation Date: 05/17/22 07:18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 02,04,06 Batch: WG1638450-1						
2,4-D	ND		ug/kg	163	10.3	A
2,4,5-T	ND		ug/kg	163	5.05	A
2,4,5-TP (Silvex)	ND		ug/kg	163	4.34	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	104		30-150	A
DCAA	98		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224463

Report Date: 06/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02,04,06 Batch: WG1637995-2 WG1637995-3									
Delta-BHC	70		78		30-150	11		30	A
Lindane	70		79		30-150	12		30	A
Alpha-BHC	71		80		30-150	12		30	A
Beta-BHC	67		77		30-150	14		30	A
Heptachlor	74		83		30-150	11		30	A
Aldrin	69		80		30-150	15		30	A
Heptachlor epoxide	58		62		30-150	7		30	A
Endrin	70		80		30-150	13		30	A
Endrin aldehyde	60		66		30-150	10		30	A
Endrin ketone	70		76		30-150	8		30	A
Dieldrin	73		82		30-150	12		30	A
4,4'-DDE	67		76		30-150	13		30	A
4,4'-DDD	74		84		30-150	13		30	A
4,4'-DDT	70		80		30-150	13		30	A
Endosulfan I	64		72		30-150	12		30	A
Endosulfan II	69		79		30-150	14		30	A
Endosulfan sulfate	53		60		30-150	12		30	A
Methoxychlor	73		82		30-150	12		30	A
cis-Chlordane	62		70		30-150	12		30	A
trans-Chlordane	81		89		30-150	9		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224463

Report Date: 06/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02,04,06 Batch: WG1637995-2 WG1637995-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		72		30-150	A
Decachlorobiphenyl	76		86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		82		30-150	B
Decachlorobiphenyl	77		88		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224463

Report Date: 06/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 02,04,06 Batch: WG1638450-2 WG1638450-3									
2,4-D	90		84		30-150	7		30	A
2,4,5-T	82		78		30-150	5		30	A
2,4,5-TP (Silvex)	81		78		30-150	4		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	98		94		30-150	A
DCAA	91		90		30-150	B

METALS

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224463
Project Number: 20-1152
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-02
Client ID: COMP SB-09(0-5)
Sample Location: MANHATTAN, NY
Date Collected: 05/10/22 09:10
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2510		mg/kg	11.1	3.00	2	05/28/22 08:55	06/01/22 11:08	EPA 3050B	1,6010D	SB
Antimony, Total	ND		mg/kg	5.56	0.422	2	05/28/22 08:55	06/01/22 11:08	EPA 3050B	1,6010D	SB
Arsenic, Total	6.08		mg/kg	1.11	0.231	2	05/28/22 08:55	06/01/22 11:08	EPA 3050B	1,6010D	SB
Barium, Total	36.6		mg/kg	1.11	0.193	2	05/28/22 08:55	06/01/22 11:08	EPA 3050B	1,6010D	SB
Beryllium, Total	0.133	J	mg/kg	0.556	0.037	2	05/28/22 08:55	06/01/22 11:08	EPA 3050B	1,6010D	SB
Cadmium, Total	0.278	J	mg/kg	1.11	0.109	2	05/28/22 08:55	06/01/22 11:08	EPA 3050B	1,6010D	SB
Calcium, Total	15200		mg/kg	11.1	3.89	2	05/28/22 08:55	06/01/22 11:08	EPA 3050B	1,6010D	SB
Chromium, Total	22.0		mg/kg	1.11	0.107	2	05/28/22 08:55	06/01/22 11:08	EPA 3050B	1,6010D	SB
Cobalt, Total	2.37		mg/kg	2.22	0.184	2	05/28/22 08:55	06/01/22 11:08	EPA 3050B	1,6010D	SB
Copper, Total	21.2		mg/kg	1.11	0.287	2	05/28/22 08:55	06/01/22 11:08	EPA 3050B	1,6010D	SB
Iron, Total	5770		mg/kg	5.56	1.00	2	05/28/22 08:55	06/01/22 11:08	EPA 3050B	1,6010D	SB
Lead, Total	37.7		mg/kg	5.56	0.298	2	05/28/22 08:55	06/01/22 11:08	EPA 3050B	1,6010D	SB
Magnesium, Total	2290		mg/kg	11.1	1.71	2	05/28/22 08:55	06/01/22 11:08	EPA 3050B	1,6010D	SB
Manganese, Total	129		mg/kg	1.11	0.177	2	05/28/22 08:55	06/01/22 11:08	EPA 3050B	1,6010D	SB
Mercury, Total	0.101		mg/kg	0.090	0.058	1	05/28/22 11:30	05/29/22 10:59	EPA 7471B	1,7471B	AW
Nickel, Total	11.0		mg/kg	2.78	0.269	2	05/28/22 08:55	06/01/22 11:08	EPA 3050B	1,6010D	SB
Potassium, Total	666		mg/kg	278	16.0	2	05/28/22 08:55	06/01/22 11:08	EPA 3050B	1,6010D	SB
Selenium, Total	ND		mg/kg	2.22	0.287	2	05/28/22 08:55	06/01/22 11:08	EPA 3050B	1,6010D	SB
Silver, Total	ND		mg/kg	1.11	0.314	2	05/28/22 08:55	06/01/22 11:08	EPA 3050B	1,6010D	SB
Sodium, Total	381		mg/kg	222	3.50	2	05/28/22 08:55	06/01/22 11:08	EPA 3050B	1,6010D	SB
Thallium, Total	ND		mg/kg	2.22	0.350	2	05/28/22 08:55	06/01/22 11:08	EPA 3050B	1,6010D	SB
Vanadium, Total	8.96		mg/kg	1.11	0.226	2	05/28/22 08:55	06/01/22 11:08	EPA 3050B	1,6010D	SB
Zinc, Total	96.4		mg/kg	5.56	0.326	2	05/28/22 08:55	06/01/22 11:08	EPA 3050B	1,6010D	SB

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224463
Project Number: 20-1152
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-04
Client ID: COMP SB-10(0-5)
Sample Location: MANHATTAN, NY
Date Collected: 05/10/22 09:40
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3190		mg/kg	9.06	2.44	2	05/28/22 08:55	06/01/22 10:58	EPA 3050B	1,6010D	SB
Antimony, Total	ND		mg/kg	4.53	0.344	2	05/28/22 08:55	06/01/22 10:58	EPA 3050B	1,6010D	SB
Arsenic, Total	7.16		mg/kg	0.906	0.188	2	05/28/22 08:55	06/01/22 10:58	EPA 3050B	1,6010D	SB
Barium, Total	67.7		mg/kg	0.906	0.158	2	05/28/22 08:55	06/01/22 10:58	EPA 3050B	1,6010D	SB
Beryllium, Total	0.199	J	mg/kg	0.453	0.030	2	05/28/22 08:55	06/01/22 10:58	EPA 3050B	1,6010D	SB
Cadmium, Total	0.353	J	mg/kg	0.906	0.089	2	05/28/22 08:55	06/01/22 10:58	EPA 3050B	1,6010D	SB
Calcium, Total	7560		mg/kg	9.06	3.17	2	05/28/22 08:55	06/01/22 10:58	EPA 3050B	1,6010D	SB
Chromium, Total	13.0		mg/kg	0.906	0.087	2	05/28/22 08:55	06/01/22 10:58	EPA 3050B	1,6010D	SB
Cobalt, Total	4.01		mg/kg	1.81	0.150	2	05/28/22 08:55	06/01/22 10:58	EPA 3050B	1,6010D	SB
Copper, Total	26.3		mg/kg	0.906	0.234	2	05/28/22 08:55	06/01/22 10:58	EPA 3050B	1,6010D	SB
Iron, Total	9920		mg/kg	4.53	0.818	2	05/28/22 08:55	06/01/22 10:58	EPA 3050B	1,6010D	SB
Lead, Total	128		mg/kg	4.53	0.243	2	05/28/22 08:55	06/01/22 10:58	EPA 3050B	1,6010D	SB
Magnesium, Total	1900		mg/kg	9.06	1.40	2	05/28/22 08:55	06/01/22 10:58	EPA 3050B	1,6010D	SB
Manganese, Total	160		mg/kg	0.906	0.144	2	05/28/22 08:55	06/01/22 10:58	EPA 3050B	1,6010D	SB
Mercury, Total	0.114		mg/kg	0.077	0.050	1	06/01/22 01:25	06/01/22 07:56	EPA 7471B	1,7471B	DMB
Nickel, Total	8.64		mg/kg	2.26	0.219	2	05/28/22 08:55	06/01/22 10:58	EPA 3050B	1,6010D	SB
Potassium, Total	1270		mg/kg	226	13.0	2	05/28/22 08:55	06/01/22 10:58	EPA 3050B	1,6010D	SB
Selenium, Total	0.371	J	mg/kg	1.81	0.234	2	05/28/22 08:55	06/01/22 10:58	EPA 3050B	1,6010D	SB
Silver, Total	ND		mg/kg	0.906	0.256	2	05/28/22 08:55	06/01/22 10:58	EPA 3050B	1,6010D	SB
Sodium, Total	621		mg/kg	181	2.85	2	05/28/22 08:55	06/01/22 10:58	EPA 3050B	1,6010D	SB
Thallium, Total	ND		mg/kg	1.81	0.285	2	05/28/22 08:55	06/01/22 10:58	EPA 3050B	1,6010D	SB
Vanadium, Total	12.9		mg/kg	0.906	0.184	2	05/28/22 08:55	06/01/22 10:58	EPA 3050B	1,6010D	SB
Zinc, Total	118		mg/kg	4.53	0.265	2	05/28/22 08:55	06/01/22 10:58	EPA 3050B	1,6010D	SB

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224463
Project Number: 20-1152
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-05
Client ID: COMP(SB-09,SB-10)
Sample Location: MANHATTAN, NY
Date Collected: 05/10/22 09:45
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 68%
TCLP/SPLP Ext. Date: 05/13/22 04:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	05/31/22 21:10	06/01/22 15:59	EPA 3015	1,6010D	SB
Barium, TCLP	0.235	J	mg/l	0.500	0.021	1	05/31/22 21:10	06/01/22 15:59	EPA 3015	1,6010D	SB
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/31/22 21:10	06/01/22 15:59	EPA 3015	1,6010D	SB
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/31/22 21:10	06/01/22 15:59	EPA 3015	1,6010D	SB
Lead, TCLP	0.048	J	mg/l	0.500	0.027	1	05/31/22 21:10	06/01/22 15:59	EPA 3015	1,6010D	SB
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	05/31/22 20:59	06/01/22 07:15	EPA 7470A	1,7470A	DMB
Selenium, TCLP	ND		mg/l	0.500	0.035	1	05/31/22 21:10	06/01/22 15:59	EPA 3015	1,6010D	SB
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/31/22 21:10	06/01/22 15:59	EPA 3015	1,6010D	SB

Project Name: 20-1152 BATTERY PARK
Lab Number: L2224463
Project Number: 20-1152
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-06
Client ID: SOIL DUP
Sample Location: MANHATTAN, NY
Date Collected: 05/10/22 00:00
Date Received: 05/10/22
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	2930		mg/kg	9.28	2.51	2	05/28/22 08:55	06/01/22 11:03	EPA 3050B	1,6010D	SB
Antimony, Total	ND		mg/kg	4.64	0.353	2	05/28/22 08:55	06/01/22 11:03	EPA 3050B	1,6010D	SB
Arsenic, Total	4.41		mg/kg	0.928	0.193	2	05/28/22 08:55	06/01/22 11:03	EPA 3050B	1,6010D	SB
Barium, Total	57.4		mg/kg	0.928	0.162	2	05/28/22 08:55	06/01/22 11:03	EPA 3050B	1,6010D	SB
Beryllium, Total	0.176	J	mg/kg	0.464	0.031	2	05/28/22 08:55	06/01/22 11:03	EPA 3050B	1,6010D	SB
Cadmium, Total	0.306	J	mg/kg	0.928	0.091	2	05/28/22 08:55	06/01/22 11:03	EPA 3050B	1,6010D	SB
Calcium, Total	5740		mg/kg	9.28	3.25	2	05/28/22 08:55	06/01/22 11:03	EPA 3050B	1,6010D	SB
Chromium, Total	12.6		mg/kg	0.928	0.089	2	05/28/22 08:55	06/01/22 11:03	EPA 3050B	1,6010D	SB
Cobalt, Total	3.88		mg/kg	1.86	0.154	2	05/28/22 08:55	06/01/22 11:03	EPA 3050B	1,6010D	SB
Copper, Total	21.2		mg/kg	0.928	0.239	2	05/28/22 08:55	06/01/22 11:03	EPA 3050B	1,6010D	SB
Iron, Total	8760		mg/kg	4.64	0.838	2	05/28/22 08:55	06/01/22 11:03	EPA 3050B	1,6010D	SB
Lead, Total	59.0		mg/kg	4.64	0.249	2	05/28/22 08:55	06/01/22 11:03	EPA 3050B	1,6010D	SB
Magnesium, Total	1760		mg/kg	9.28	1.43	2	05/28/22 08:55	06/01/22 11:03	EPA 3050B	1,6010D	SB
Manganese, Total	148		mg/kg	0.928	0.148	2	05/28/22 08:55	06/01/22 11:03	EPA 3050B	1,6010D	SB
Mercury, Total	0.131		mg/kg	0.078	0.051	1	06/01/22 01:25	06/01/22 08:00	EPA 7471B	1,7471B	DMB
Nickel, Total	7.73		mg/kg	2.32	0.225	2	05/28/22 08:55	06/01/22 11:03	EPA 3050B	1,6010D	SB
Potassium, Total	1120		mg/kg	232	13.4	2	05/28/22 08:55	06/01/22 11:03	EPA 3050B	1,6010D	SB
Selenium, Total	ND		mg/kg	1.86	0.239	2	05/28/22 08:55	06/01/22 11:03	EPA 3050B	1,6010D	SB
Silver, Total	ND		mg/kg	0.928	0.263	2	05/28/22 08:55	06/01/22 11:03	EPA 3050B	1,6010D	SB
Sodium, Total	567		mg/kg	186	2.92	2	05/28/22 08:55	06/01/22 11:03	EPA 3050B	1,6010D	SB
Thallium, Total	ND		mg/kg	1.86	0.292	2	05/28/22 08:55	06/01/22 11:03	EPA 3050B	1,6010D	SB
Vanadium, Total	12.3		mg/kg	0.928	0.188	2	05/28/22 08:55	06/01/22 11:03	EPA 3050B	1,6010D	SB
Zinc, Total	82.9		mg/kg	4.64	0.272	2	05/28/22 08:55	06/01/22 11:03	EPA 3050B	1,6010D	SB

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

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): 02,04,06 Batch: WG1644049-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	05/28/22 08:55	06/01/22 10:48	1,6010D	SB
Antimony, Total	ND		mg/kg	2.00	0.152	1	05/28/22 08:55	06/01/22 10:48	1,6010D	SB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	05/28/22 08:55	06/01/22 10:48	1,6010D	SB
Barium, Total	ND		mg/kg	0.400	0.070	1	05/28/22 08:55	06/01/22 10:48	1,6010D	SB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	05/28/22 08:55	06/01/22 10:48	1,6010D	SB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	05/28/22 08:55	06/01/22 10:48	1,6010D	SB
Calcium, Total	ND		mg/kg	4.00	1.40	1	05/28/22 08:55	06/01/22 10:48	1,6010D	SB
Chromium, Total	ND		mg/kg	0.400	0.038	1	05/28/22 08:55	06/01/22 10:48	1,6010D	SB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	05/28/22 08:55	06/01/22 10:48	1,6010D	SB
Copper, Total	ND		mg/kg	0.400	0.103	1	05/28/22 08:55	06/01/22 10:48	1,6010D	SB
Iron, Total	3.16		mg/kg	2.00	0.361	1	05/28/22 08:55	06/01/22 10:48	1,6010D	SB
Lead, Total	ND		mg/kg	2.00	0.107	1	05/28/22 08:55	06/01/22 10:48	1,6010D	SB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	05/28/22 08:55	06/01/22 10:48	1,6010D	SB
Manganese, Total	ND		mg/kg	0.400	0.064	1	05/28/22 08:55	06/01/22 10:48	1,6010D	SB
Nickel, Total	ND		mg/kg	1.00	0.097	1	05/28/22 08:55	06/01/22 10:48	1,6010D	SB
Potassium, Total	ND		mg/kg	100	5.76	1	05/28/22 08:55	06/01/22 10:48	1,6010D	SB
Selenium, Total	ND		mg/kg	0.800	0.103	1	05/28/22 08:55	06/01/22 10:48	1,6010D	SB
Silver, Total	ND		mg/kg	0.400	0.113	1	05/28/22 08:55	06/01/22 10:48	1,6010D	SB
Sodium, Total	1.72	J	mg/kg	80.0	1.26	1	05/28/22 08:55	06/01/22 10:48	1,6010D	SB
Thallium, Total	ND		mg/kg	0.800	0.126	1	05/28/22 08:55	06/01/22 10:48	1,6010D	SB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	05/28/22 08:55	06/01/22 10:48	1,6010D	SB
Zinc, Total	ND		mg/kg	2.00	0.117	1	05/28/22 08:55	06/01/22 10:48	1,6010D	SB

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): 02 Batch: WG1644050-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	05/28/22 11:30	05/29/22 10:53	1,7471B	AW

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 05 Batch: WG1644551-1										
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	05/31/22 21:10	06/01/22 13:18	1,6010D	SB
Barium, TCLP	ND		mg/l	0.500	0.021	1	05/31/22 21:10	06/01/22 13:18	1,6010D	SB
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	05/31/22 21:10	06/01/22 13:18	1,6010D	SB
Chromium, TCLP	ND		mg/l	0.200	0.021	1	05/31/22 21:10	06/01/22 13:18	1,6010D	SB
Lead, TCLP	ND		mg/l	0.500	0.027	1	05/31/22 21:10	06/01/22 13:18	1,6010D	SB
Selenium, TCLP	ND		mg/l	0.500	0.035	1	05/31/22 21:10	06/01/22 13:18	1,6010D	SB
Silver, TCLP	ND		mg/l	0.100	0.028	1	05/31/22 21:10	06/01/22 13:18	1,6010D	SB

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 05/12/22 05:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 05 Batch: WG1644553-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	05/31/22 20:59	06/01/22 07:09	1,7470A	DMB

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 05/12/22 05:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 04,06 Batch: WG1644714-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	06/01/22 01:25	06/01/22 07:36	1,7471B	DMB

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224463

Report Date: 06/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04,06 Batch: WG1644049-2 SRM Lot Number: D113-540								
Aluminum, Total	60		-		51-149	-		
Antimony, Total	139		-		20-250	-		
Arsenic, Total	91		-		70-130	-		
Barium, Total	76		-		75-125	-		
Beryllium, Total	80		-		75-125	-		
Cadmium, Total	86		-		75-125	-		
Calcium, Total	73		-		73-128	-		
Chromium, Total	79		-		70-130	-		
Cobalt, Total	90		-		75-125	-		
Copper, Total	82		-		75-125	-		
Iron, Total	83		-		36-164	-		
Lead, Total	86		-		72-128	-		
Magnesium, Total	74		-		63-138	-		
Manganese, Total	77		-		77-123	-		
Nickel, Total	89		-		70-130	-		
Potassium, Total	73		-		59-141	-		
Selenium, Total	92		-		66-134	-		
Silver, Total	96		-		70-131	-		
Sodium, Total	85		-		35-164	-		
Thallium, Total	87		-		70-130	-		
Vanadium, Total	80		-		74-126	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224463

Report Date: 06/01/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04,06 Batch: WG1644049-2 SRM Lot Number: D113-540					
Zinc, Total	87	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1644050-2 SRM Lot Number: D113-540					
Mercury, Total	83	-	60-140	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05 Batch: WG1644551-2					
Arsenic, TCLP	98	-	75-125	-	20
Barium, TCLP	98	-	75-125	-	20
Cadmium, TCLP	91	-	75-125	-	20
Chromium, TCLP	92	-	75-125	-	20
Lead, TCLP	89	-	75-125	-	20
Selenium, TCLP	95	-	75-125	-	20
Silver, TCLP	92	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05 Batch: WG1644553-2					
Mercury, TCLP	96	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 04,06 Batch: WG1644714-2 SRM Lot Number: D113-540					
Mercury, Total	88	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224463
Report Date: 06/01/22

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): 02,04,06 QC Batch ID: WG1644049-3 QC Sample: L2224463-02 Client ID: COMP SB-09(0-5)												
Aluminum, Total	2510	216	3200	**319**	Q	-	-		75-125	-		20
Antimony, Total	ND	54	49.1	91		-	-		75-125	-		20
Arsenic, Total	6.08	13	19.4	103		-	-		75-125	-		20
Barium, Total	36.6	216	254	101		-	-		75-125	-		20
Beryllium, Total	0.133J	5.4	5.75	106		-	-		75-125	-		20
Cadmium, Total	0.278J	5.73	5.48	96		-	-		75-125	-		20
Calcium, Total	15200	1080	18100	**268**	Q	-	-		75-125	-		20
Chromium, Total	22.0	21.6	31.9	**46**	Q	-	-		75-125	-		20
Cobalt, Total	2.37	54	49.7	88		-	-		75-125	-		20
Copper, Total	21.2	27	54.1	122		-	-		75-125	-		20
Iron, Total	5770	108	6060	**268**	Q	-	-		75-125	-		20
Lead, Total	37.7	57.3	91.5	94		-	-		75-125	-		20
Magnesium, Total	2290	1080	4560	**210**	Q	-	-		75-125	-		20
Manganese, Total	129	54	188	109		-	-		75-125	-		20
Nickel, Total	11.0	54	53.3	78		-	-		75-125	-		20
Potassium, Total	666	1080	1780	103		-	-		75-125	-		20
Selenium, Total	ND	13	12.2	94		-	-		75-125	-		20
Silver, Total	ND	32.4	30.3	93		-	-		75-125	-		20
Sodium, Total	381	1080	1540	107		-	-		75-125	-		20
Thallium, Total	ND	13	11.3	87		-	-		75-125	-		20
Vanadium, Total	8.96	54	61.4	97		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224463
Report Date: 06/01/22

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): 02,04,06 QC Batch ID: WG1644049-3 QC Sample: L2224463-02 Client ID: COMP SB-09(0-5)									
Zinc, Total	96.4	54	142	84	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1644050-3 QC Sample: L2224463-02 Client ID: COMP SB-09(0-5)									
Mercury, Total	0.101	0.18	0.295	108	-	-	80-120	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1644551-3 QC Sample: L2224463-05 Client ID: COMP(SB-09,SB-10)									
Arsenic, TCLP	ND	1.2	1.27	106	-	-	75-125	-	20
Barium, TCLP	0.235J	20	19.4	97	-	-	75-125	-	20
Cadmium, TCLP	ND	0.53	0.511	96	-	-	75-125	-	20
Chromium, TCLP	ND	2	1.92	96	-	-	75-125	-	20
Lead, TCLP	0.048J	5.3	5.15	97	-	-	75-125	-	20
Selenium, TCLP	ND	1.2	1.17	98	-	-	75-125	-	20
Silver, TCLP	ND	0.5	0.473	95	-	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1644553-3 QC Sample: L2224463-05 Client ID: COMP(SB-09,SB-10)									
Mercury, TCLP	ND	0.025	0.0229	92	-	-	80-120	-	20
Total Metals - Mansfield Lab Associated sample(s): 04,06 QC Batch ID: WG1644714-3 QC Sample: L2226420-01 Client ID: MS Sample									
Mercury, Total	ND	0.152	0.156	102	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224463
Report Date: 06/01/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04,06 QC Batch ID: WG1644049-4 QC Sample: L2224463-02 Client ID: COMP SB-09(0-5)						
Aluminum, Total	2510	2350	mg/kg	7		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	6.08	5.77	mg/kg	5		20
Barium, Total	36.6	36.2	mg/kg	1		20
Beryllium, Total	0.133J	0.109J	mg/kg	NC		20
Cadmium, Total	0.278J	0.285J	mg/kg	NC		20
Calcium, Total	15200	13700	mg/kg	10		20
Chromium, Total	22.0	11.3	mg/kg	**64**	Q	20
Cobalt, Total	2.37	2.36	mg/kg	0		20
Copper, Total	21.2	19.3	mg/kg	9		20
Iron, Total	5770	5190	mg/kg	11		20
Lead, Total	37.7	39.4	mg/kg	4		20
Magnesium, Total	2290	2040	mg/kg	12		20
Manganese, Total	129	114	mg/kg	12		20
Nickel, Total	11.0	5.65	mg/kg	**64**	Q	20
Potassium, Total	666	643	mg/kg	4		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	381	328	mg/kg	15		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224463
Report Date: 06/01/22

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04,06 QC Batch ID: WG1644049-4 QC Sample: L2224463-02 Client ID: COMP SB-09(0-5)						
Thallium, Total	ND	ND	mg/kg	NC		20
Vanadium, Total	8.96	8.43	mg/kg	6		20
Zinc, Total	96.4	71.5	mg/kg	**30**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1644050-4 QC Sample: L2224463-02 Client ID: COMP SB-09(0-5)						
Mercury, Total	0.101	0.107	mg/kg	6		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1644551-4 QC Sample: L2224463-05 Client ID: COMP(SB-09,SB-10)						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Barium, TCLP	0.235J	0.235J	mg/l	NC		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	0.048J	0.037J	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1644553-4 QC Sample: L2224463-05 Client ID: COMP(SB-09,SB-10)						
Mercury, TCLP	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 04,06 QC Batch ID: WG1644714-4 QC Sample: L2226420-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-05
Client ID: COMP(SB-09,SB-10)
Sample Location: MANHATTAN, NY

Date Collected: 05/10/22 09:45
Date Received: 05/10/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Wet Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	05/16/22 14:54	1,1030	PA

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-01
Client ID: SB-09(0-2)
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/10/22 09:00
Date Received: 05/10/22
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	84.3		%	0.100	NA	1	-	05/12/22 08:03	121,2540G	RI

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-02
Client ID: COMP SB-09(0-5)
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/10/22 09:10
Date Received: 05/10/22
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	71.2		%	0.100	NA	1	-	05/17/22 12:56	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.3	0.28	1	05/20/22 11:50	05/23/22 08:32	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	1.12	0.225	1	05/12/22 18:27	05/14/22 17:20	1,7196A	NL

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-03
Client ID: SB-10(0-2)
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/10/22 09:30
Date Received: 05/10/22
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	89.0		%	0.100	NA	1	-	05/12/22 08:03	121,2540G	RI

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-04
Client ID: COMP SB-10(0-5)
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/10/22 09:40
Date Received: 05/10/22
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	83.5		%	0.100	NA	1	-	05/17/22 12:56	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	05/20/22 11:50	05/23/22 08:34	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.958	0.192	1	05/12/22 18:27	05/14/22 17:20	1,7196A	NL

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-05
Client ID: COMP(SB-09,SB-10)
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/10/22 09:45
Date Received: 05/10/22
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	67.8		%	0.100	NA	1	-	05/17/22 12:56	121,2540G	RI
pH (H)	8.0		SU	-	NA	1	-	05/13/22 21:00	1,9045D	AS
Cyanide, Reactive	ND		mg/kg	10	10.	1	05/23/22 14:00	05/23/22 15:55	125,7.3	MJ
Sulfide, Reactive	34		mg/kg	10	10.	1	05/23/22 14:00	05/23/22 15:20	125,7.3	MJ

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2224463-06
Client ID: SOIL DUP
Sample Location: MANHATTAN, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/10/22 00:00
Date Received: 05/10/22
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	85.3		%	0.100	NA	1	-	05/12/22 08:03	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	05/20/22 11:50	05/23/22 08:35	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.938	0.188	1	05/12/22 18:27	05/14/22 17:20	1,7196A	NL

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152
Lab Number: L2224463
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Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02,04,06 Batch: WG1637881-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	05/12/22 18:27	05/14/22 17:20	1,7196A	NL
General Chemistry - Westborough Lab for sample(s): 05 Batch: WG1640565-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	05/23/22 14:00	05/23/22 15:18	125,7.3	MJ
General Chemistry - Westborough Lab for sample(s): 02,04,06 Batch: WG1640934-1										
Cyanide, Total	ND		mg/kg	0.93	0.20	1	05/20/22 11:50	05/23/22 08:27	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 05 Batch: WG1640941-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	05/23/22 14:00	05/23/22 15:54	125,7.3	MJ

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224463

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02,04,06 Batch: WG1637881-2								
Chromium, Hexavalent	81		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 05 Batch: WG1638353-1								
pH	101		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 05 Batch: WG1640565-2								
Sulfide, Reactive	92		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 02,04,06 Batch: WG1640934-2 WG1640934-3								
Cyanide, Total	**78**	Q	80		80-120	8		35
General Chemistry - Westborough Lab Associated sample(s): 05 Batch: WG1640941-2								
Cyanide, Reactive	74		-		30-125	-		40

Matrix Spike Analysis
Batch Quality Control

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224463
Report Date: 06/01/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02,04,06 QC Batch ID: WG1637881-4 QC Sample: L2224463-04 Client ID: COMP SB-10(0-5)												
Chromium, Hexavalent	ND	1600	1320	82		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 02,04,06 QC Batch ID: WG1640934-4 WG1640934-5 QC Sample: L2224463-06 Client ID: SOIL DUP												
Cyanide, Total	ND	11	11	100		11	100		75-125	0		35

Lab Duplicate Analysis

Batch Quality Control

Project Name: 20-1152 BATTERY PARK

Project Number: 20-1152

Lab Number: L2224463

Report Date: 06/01/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03,06 QC Batch ID: WG1637500-1 QC Sample: L2224729-01 Client ID: DUP Sample						
Solids, Total	86.5	84.6	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 02,04,06 QC Batch ID: WG1637881-6 QC Sample: L2224463-04 Client ID: COMP SB-10(0-5)						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1638353-2 QC Sample: L2224019-05 Client ID: DUP Sample						
pH	9.6	9.4	SU	2		5
General Chemistry - Westborough Lab Associated sample(s): 02,04-05 QC Batch ID: WG1639398-1 QC Sample: L2224728-01 Client ID: DUP Sample						
Solids, Total	88.8	88.7	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1640565-3 QC Sample: L2226454-03 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1640941-3 QC Sample: L2226454-03 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224463
Report Date: 06/01/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2224463-01A	Vial MeOH preserved	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2224463-01B	Vial water preserved	A	NA		2.9	Y	Absent	11-MAY-22 14:21	NYTCL-8260HLW(14)
L2224463-01C	Vial water preserved	A	NA		2.9	Y	Absent	11-MAY-22 14:21	NYTCL-8260HLW(14)
L2224463-01D	Plastic 2oz unpreserved for TS	A	NA		2.9	Y	Absent		TS(7)
L2224463-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),ZN-TI(180),SE-TI(180),SB-TI(180),PB-TI(180),CU-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2224463-02B	Glass 120ml/4oz unpreserved	A	NA		2.9	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2224463-02C	Glass 500ml/16oz unpreserved	A	NA		2.9	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2224463-03A	Vial MeOH preserved	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2224463-03B	Vial water preserved	A	NA		2.9	Y	Absent	11-MAY-22 14:21	NYTCL-8260HLW(14)
L2224463-03C	Vial water preserved	A	NA		2.9	Y	Absent	11-MAY-22 14:21	NYTCL-8260HLW(14)
L2224463-03D	Plastic 2oz unpreserved for TS	A	NA		2.9	Y	Absent		TS(7)
L2224463-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MG-TI(180),HG-T(28),MN-TI(180),FE-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2224463-04B	Glass 120ml/4oz unpreserved	A	NA		2.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2224463-04C	Glass 500ml/16oz unpreserved	A	NA		2.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: 20-1152 BATTERY PARK
Project Number: 20-1152

Lab Number: L2224463
Report Date: 06/01/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2224463-05A	Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),REACTS(14),TS(7),PH-9045(1),REACTCN(14)
L2224463-05B	Glass 120ml/4oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),REACTS(14),TS(7),PH-9045(1),REACTCN(14)
L2224463-05C	Glass 500ml/16oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),REACTS(14),TS(7),PH-9045(1),REACTCN(14)
L2224463-05X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.9	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2224463-05X9	Tumble Vessel	A	NA		2.9	Y	Absent		-
L2224463-06A	Vial MeOH preserved	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2224463-06B	Vial water preserved	A	NA		2.9	Y	Absent	11-MAY-22 14:21	NYTCL-8260HLW(14)
L2224463-06C	Vial water preserved	A	NA		2.9	Y	Absent	11-MAY-22 14:21	NYTCL-8260HLW(14)
L2224463-06D	Plastic 2oz unpreserved for TS	A	NA		2.9	Y	Absent		TS(7)
L2224463-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MN-TI(180),MG-TI(180),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2224463-06F	Glass 250ml/8oz unpreserved	A	NA		2.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2224463-06G	Glass 250ml/8oz unpreserved	A	NA		2.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name:	20-1152 BATTERY PARK	**Lab Number:**	L2224463
Project Number:	20-1152	**Report Date:**	06/01/22

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

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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. 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.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

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Data Qualifiers

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:	20-1152 BATTERY PARK	**Lab Number:**	L2224463
Project Number:	20-1152	**Report Date:**	06/01/22

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.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

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 1

Date Rec'd in Lab: 5/10/22

ALPHA Job #: L2224463

Client Information
Client: Matrix
Address: 333 W. 37th St, NY, NY
Phone:
Fax:
Email: bcrespi@mnwe.com

Project Information
Project Name: 20-1152 Battery Park
Project Location: Manhattan, NY
Project #: 201152
(Use Project name as Project #) ☐
Project Manager: Brian Crespi
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

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	TCL VOCs 10	TCL SVOCs 10	TCL Pesticides	TCL Herbicides	TCL PCBs	TAL Metals	Hexavalent Chromium Cyanide	TCLP Metals + Cr(VI), Cyanide	Sample Specific Comments	Total Bottle
24463-01	SB-09 (0-2)	5/10/22	0900	S	EW	✓									
-02	(COMP SB-09 (0-5)		0910	S	EW		✓	✓	✓	✓	✓	✓			
-03	SB-10 (0-2)		0930	S	EW	✓									
-04	COMP SB-10 (0-5)		0940	S	EW		✓	✓	✓	✓	✓	✓			
-05	(COMP (SB-09, SB-10)		0945	S	EW								✓		
-06	Soil DUP			S	EW	✓	✓	✓	✓	✓	✓	✓			

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

	Container Type									
	Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
	5/10/22 1610		
	5/10/22 1145	Paul Mazzella	5/10/22 1645
Paul Mazzella 5/10/22			5/10/22 2230

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)